
2021 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

MISSISSIPPI POWER COMPANY
PLANT WATSON FORMER CCR UNIT



Report Submitted – August 1, 2021

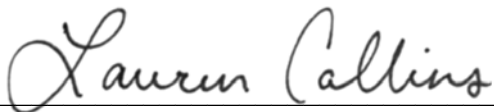
Prepared By:

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

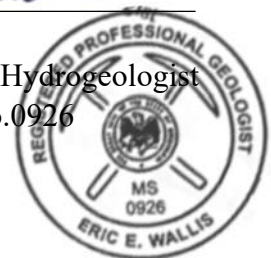
This *Annual Groundwater Monitoring and Corrective Action Report, Mississippi Power Company - Plant Jack Watson – former CCR unit* has been prepared in compliance with the United States Environmental Protection Agency (EPA) Coal Combustion Residual (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015) and the Agreed Order signed on December 23, 2019 between the Mississippi Commission on Environmental Quality and Mississippi Power Company under the supervision of a licensed professional geologist with Southern Company Services.



Lauren Collins
Originator
Geologist



Eric Wallis, PG
Supervising Principal Hydrogeologist
MS Registered PG No.0926



EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) Coal Combustion Residual (CCR) Rule (40 CFR Part 257, Subpart D) and Administrative Order No. 7010-19, this 2021 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document semi-annual assessment groundwater monitoring activities at the Plant Watson former CCR Unit and to satisfy the requirements of § 257.90(e). Semi-annual assessment monitoring and associated reporting for Plant Watson former CCR Unit is performed in accordance with the monitoring requirements § 257.90 through § 257.95. The CCR unit began the monitoring period in assessment monitoring pursuant to § 257.95. Statistically significant increases (SSI) of Appendix III constituents over background were identified in the results of the first detection monitoring event, and assessment monitoring was initiated in August 2019.

The following summarizes activities for groundwater monitoring at the site during the 2021 monitoring period:

- Completed the Assessment of Corrective Measures on August 11, 2020 to address statistically significant levels (SSLs) observed in groundwater downgradient of the former CCR Unit, submitted the report to the Mississippi Department of Environmental Quality (MDEQ), and posted the report to the CCR compliance web page.
- Completed Alternate Source Demonstrations (ASDs) for barium (August 2020) and combined radium 226 + 228 (radium) (December 2020), submitted the ASDs to MDEQ, and posted to the CCR compliance web page.
- Submitted a plan to implement temporary groundwater corrective action and enhanced source control within the footprint of the former CCR Unit to MDEQ in December 2020. Approval was received from MDEQ in January 2021 to proceed with the temporary groundwater corrective action.
- Conducted the first and second semi-annual sampling event during November 2020 and March 2021 in all background, downgradient and surface water monitoring locations.
- Submitted the Comprehensive Groundwater Investigation Report to MDEQ in December 2020.
- Submitted the Semi-Annual Remedy Selection and Design Progress Reports on March 30, 2021.
- Submitted the Semi-Annual Progress Report on March 30, 2021 in accordance with the requirements of Part 3. E. of Administrative Order No. 7010-19.

To meet the requirements of 40 CFR 257.90(e)(6), the Executive Summary Table – Monitoring Period Summary, describes the status of groundwater monitoring and corrective action during the monitoring period for this report.

The former CCR Unit concluded the monitoring period in assessment monitoring, and Mississippi Power Company (MPC) is evaluating potential groundwater remedies identified in the ACM report. The following monitoring-related activities are planned for the former CCR unit:

- Semi-annual groundwater assessment monitoring, including sampling of horizontal and vertical delineation locations.
- Continue to evaluate groundwater chemistry related to vertical delineation at the former CCR Unit.
- Continue evaluating corrective measures identified in the ACM, including evaluating if additional field data collection, laboratory studies, and/or field pilot tests are needed to support remedy selection.
- Initiating studies to evaluate natural attenuation mechanisms and capacity in Unit 3 for arsenic, lithium, and molybdenum. The attenuation study will evaluate the EPA-recommended tiered analysis approach to develop multiple lines of evidence for confirming the appropriate application of natural attenuation as a component of a corrective remedy strategy. The attenuation study is anticipated to include:
 - Aquifer matrix, groundwater, and surface water sampling;
 - Laboratory testing, which may include one or more of the following:
 - chemical and mineralogic characterization;
 - batch sorption/desorption testing; and/or
 - column testing; and
 - Data evaluation and documentation of the attenuation mechanisms.
- Coordinate permitting activities as appropriate with the MDEQ to obtain a National Pollutant Discharge Elimination System (NPDES) discharge permit and groundwater withdrawal permit for the temporary remedial system.
- Design, install, and test groundwater extraction wells for the temporary groundwater remedy.
- Submit the next Semi-Annual Remedy Selection and Design Progress Report by September 30, 2021.
- Submit the next Semi-Annual Progress Report by September 30, 2021.
- Submit the next Annual Groundwater and Corrective Action Report by August 1, 2022.

**Executive Summary Table.
Monitoring Period Summary
Plant Watson - Former CCR Unit**

Assessment Monitoring Initiated: August 2019
Monitoring Period: July 2020 - June 2021
Beginning Status: Assessment
Ending Status: Assessment

Statistical Analysis Results *

Appendix III SSIs

Parameter	Wells
Boron	APMW-1R, APMW-2, APMW-3, APMW-5, APMW-6R, APMW-8, APMW-9, APMW-10
Calcium	APMW-1R, APMW-2, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, APMW-9
Chloride	APMW-3, APMW-5
pH	APMW-9, APMW-10
TDS	APMW-3, APMW-5

Appendix IV SSLs

Parameter	Wells
Arsenic	APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, APMW-10
Barium	APMW-2
Lithium	APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8
Molybdenum	APMW-6R, APMW-8
Combined Radium 226 + 228	APMW-1R, APMW-2, APMW-3, APMW-7, APMW-9

* See the attached report for further details regarding statistical exceedances and alternate source demonstrations.

Assessment of Corrective Measures & Groundwater Remedy

Assessment of Corrective Measures

Date Initiated: March 15, 2020
Date Complete: August 11, 2020
Public Meeting Date: Not Determined

Groundwater Remedy

Selected During Period: No
Selection Date: Not yet selected
Initiated During Period: No
Ongoing During Period: No

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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) Coal Combustion Residual (CCR) Rule (40 C.F.R. Part 257 Subpart D) and the Agreed Order Number (7010 19), this Annual Groundwater Monitoring and Corrective Action Report documents the groundwater monitoring activities completed from July 2020 through June 2021 at Mississippi Power Company's (MPC) Plant Jack Watson Electric Generating Plant (Plant Watson) Ash Pond (former CCR Unit). Semi-annual assessment monitoring and associated reporting for the former CCR Unit is performed in accordance with the monitoring requirements § 257.90 through § 257.95.

1.1 Site Description & Background

The former CCR Unit, ceased receiving CCR in April 2015 and closure was complete in May 2018. As part of closure, the former CCR Unit was dewatered sufficiently to remove the free water. The CCR material remaining in the former CCR Unit was graded and a final cover system installed. The final cover system consists of ClosureTurf cover system by WatershedGeo that utilizes a 50-mil linear low-density polyethylene (LLDPE) geomembrane overlain by an engineered synthetic turf. The cover system was constructed to control, minimize or eliminate, to the maximum extent feasible, the infiltration of water into the former CCR Unit by providing sufficient grades and slopes to promote surface runoff from the site. The permeability of the final cover system is less than the permeability of the natural soils beneath the surface impoundment and not greater than 1×10^{-5} centimeters/second (cm/s).

The former CCR Unit is inactive and ceased operation prior to April 17, 2015. A notification of intent to close the former CCR Unit was placed in the operating record on December 15, 2015 and posted to the internet within 30 days. The former CCR Unit was closed in May 2018 and the Certification of Closure was posted to the internet on June 4, 2018. Therefore, groundwater monitoring and reporting for the former CCR Unit is being completed in accordance with the alternate schedule in § 257.100(e)(5) of the revised CCR Rule (August 5, 2016) and the Agreed Order.

2.0 REGIONAL GEOLOGY & HYDROGEOLOGIC SETTING

2.1 Site Location and Physical Setting

Plant Watson is located in Harrison County within the City of Gulfport, Mississippi. The physical address of the plant is 10406 Lorraine Road, Gulfport, Mississippi 39503. The former CCR Unit is located southeast of the plant and west of the Biloxi River. **Figure 1, Site Location Map**, depicts the location of Plant Watson and former CCR Unit with respect to the surrounding area. Harrison County, Mississippi, lies within the Eastern Section of the Gulf Coastal Plain physiographic province (USGS, 1998). The topography of Harrison County is gently rolling to flat with elevations ranging from 200 feet (ft) above mean sea level (MSL) inland to approximately 0 ft MSL near the coastal waterbodies (USGS, 1985). Local site elevations near the former CCR Unit are between 25 and 5 ft MSL.

2.2 Geology and Hydrogeology

The subsurface geology at the site is characterized by deposits of clay, silt, and sand deposited between the Pliocene and Holocene series. This sequence of sediments has been subdivided, from oldest to youngest, into the units of Upper Graham Ferry Member of the Pensacola Formation, Citronelle Formation, Biloxi Formation, Prairie Formation, and Holocene coastal wetland, deltaic, and alluvium deposits (Otvos, 2001). The unconsolidated sediment at the site is underlain by Pliocene and Miocene sedimentary rocks at depths greater than -500 ft MSL (USGS, 1998; Hoffmann et al, 2017).

At the Site, four geologic units have been encountered surrounding and underlying the former CCR Unit and are described from shallowest to deepest as follows:

- Unit 1 is dike fill material comprising the dike along the perimeter of the former CCR Unit with a thickness ranging from 0 to 20 feet
- Unit 2 is a sandy clay to clay aquitard underlying the former CCR Unit. The unit corresponds to the Biloxi Formation and ranges from 5 to 20 feet thick. Permeability testing conducted on Unit 2 soils indicate a permeability in the 10^{-8} cm/s range.
- Unit 3 is a fluvial sand aquifer corresponding to the Citronelle Formation. The unit is approximately 40 feet thick. Unit 3 is the uppermost aquifer at the site for groundwater monitoring purposes.
- Unit 4 is a clay aquitard underlying the Unit 3 aquifer and is continuous across the site. Unit 4 corresponds to the Upper Graham Ferry Formation. Permeability testing conducted on Unit 4 clays, indicates a permeability in the 10^{-8} cm/s range.

All site monitoring wells are screened in the uppermost aquifer beneath the site in the Unit 3 sands corresponding to the Citronelle Formation. The Unit 3 sand aquifer is typically located at elevations between 0 and -42 ft MSL and generally consists of fine to coarse, well-graded sands with occasional lenses of clay and preserved wood fragments. Groundwater recharge to the uppermost aquifer in the area is largely through infiltration of precipitation.

A subsurface cement-bentonite wall was installed around the perimeter of the former CCR Unit to provide structural support of the soil dike between 1994 and 2000. The subsurface wall was installed to a common depth around the former CCR Unit. Although installed primarily for structural stability, the subsurface wall extends through much of Unit 3 and impedes groundwater flow within Unit 3 beneath the former CCR Unit. Unit 3 groundwater monitoring wells are installed outside of the subsurface wall.

3.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with 40 CFR § 257.90(e), the following describes monitoring-related activities performed during the monitoring period and presents the status of the monitoring program. Groundwater sampling was performed in accordance with § 257.93. Samples were collected from each well in the certified monitoring system. The location of each of these monitoring wells is shown on **Figure 2, Monitoring Well Network**.

3.1 Groundwater Monitoring Network

To meet the performance standards of § 257.91(a), MPC installed a groundwater monitoring system consisting of wells at appropriate locations with screens in the uppermost aquifer. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of Site-specific hydrogeologic conditions and certified by a PE. **Table 1, Groundwater Monitoring Network Details**, summarizes the monitoring well construction details and design purpose for the former CCR Unit. Monitoring wells in the certified monitoring system are shown on **Figure 2**.

Pursuant to § 257.95(g)(1), additional monitoring wells were installed to characterize the vertical extent of GWPS exceedances identified during assessment monitoring. Surface water sampling locations were utilized to characterize the horizontal extent of GWPS exceedances at the former CCR Unit. Delineation wells are identified on **Figure 2** and detailed on **Table 1**. All delineation wells are sampled semi-annually as part of the semi-annual assessment groundwater monitoring program.

3.2 Assessment Monitoring

In accordance with § 257.94(b), eight independent samples were collected from each background and downgradient well and analyzed for the constituents listed in Appendix III and IV beginning March 2018 through February 2019, with additional wells extending to June 2019. Groundwater sampling for the first detection monitoring event after the background period was performed in April 2019.

Based on results presented in the *2019 Annual Groundwater and Corrective Action Monitoring Report*, MPC initiated an assessment monitoring program in August 2019. Pursuant to § 257.95(b) and within 90 days of initiating the assessment monitoring program, an initial assessment monitoring event was conducted August 8 through 9, 2019 and monitoring wells were sampled for all Appendix IV parameters. Pursuant to § 257.95(d)(1), semi-annual assessment monitoring events were conducted August 2019 and March 2020. During the semi-annual assessment monitoring event, monitoring wells were sampled for Appendix III parameters as well as Appendix IV parameters that were detected in the initial assessment event. **Table 2, Summary of Sampling Events**, presents a summary of groundwater sampling events and their purpose completed during the semi-annual assessment monitoring events conducted in November 2020 and March 2021.

Analytical data from the semi-annual groundwater monitoring events conducted in November 2020 and March 2021 are included in **Appendix A, Groundwater Analytical Data**.

4.0 GROUNDWATER SAMPLING METHODOLOGY AND ANALYSIS

Sampling events completed for the former CCR Unit represent both the annual initial Appendix IV monitoring event as well as the 2 subsequent semi-annual assessment monitoring events. The following describes the methods used to conduct groundwater monitoring at the former CCR Unit.

4.1 Groundwater Elevation Measurement

Prior to each sampling event, groundwater levels were measured and recorded to the nearest 0.01 feet within a 24-hour period. Each well was opened and allowed to equilibrate to atmospheric pressure prior to measuring groundwater levels. Depths are referenced from the top of the well casing. Groundwater elevations are calculated by subtracting the depth to groundwater from surveyed top of casing (TOC) elevations.

Groundwater elevations fluctuate in response to rainfall and tides. Seasonal variations of 1.5 to 2.5 feet are typical at the site. **Table 3, Summary of Groundwater Elevations**, provides a summary of water level data for the site observed in the semi-annual assessment monitoring events conducted in November 2020 and March 2021.

Groundwater elevation data from the initial assessment, and semi-annual assessment monitoring events were used to develop the potentiometric surface elevation contour map provided as **Figure 3, Unit 3 Potentiometric Surface Contour Map – November 3, 2020** and **Figure 4, Unit 3 Potentiometric Surface Contour Map - March 12, 2021**. As shown on these figures, the general direction of groundwater flow is from west to east and radially from the former CCR Unit. Groundwater elevations and flow patterns are generally consistent across the monitoring events.

4.2 Groundwater Sampling

Groundwater samples were collected in accordance with § 257.93(a). Each of the monitoring wells at the former CCR Unit is equipped with a dedicated bladder pump. For wells without dedicated pumps, a peristaltic pump along with disposable polyethylene tubing was used to purge and sample from the middle of the well screen interval.

Monitoring wells were purged and sampled using low-flow sampling procedures whereby samples are collected when field water quality parameters (pH, turbidity, conductivity, and dissolved oxygen) were measured to determine stabilization. A SmarTroll (In-Situ field instrument) was used to monitor and record field water quality parameters for stabilization during well purging. Turbidity was measured in the field with a portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

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

- Temperature and oxidation reduction potential (ORP) – record only, no stabilization criteria

Once stabilization was achieved, samples were collected directly into appropriately preserved laboratory-supplied sample containers and placed in iced coolers and submitted to Eurofins Test America, Inc. (Eurofins) following chain-of-custody protocol.

4.3 Laboratory Analysis

Laboratory analyses were performed by Eurofins in Pensacola, Florida; Pittsburg, Pennsylvania; and St. Louis, Missouri. The Eurofins locations are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed. Analytical methods used for groundwater sample analysis and chain-of-custody records for each monitoring event are presented in **Appendix A**.

4.4 Quality Assurance/Quality Control

During each sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one sample per every 10 detection samples. Equipment 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**.

Background and detection monitoring groundwater quality data were independently validated following guidance from the EPA Region IV Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (November 2001); the EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and the analytical methods. Data validation consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences (RPDs), post digestion spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. A narrative providing the results of the data validation is provided in **Appendix A**.

5.0 STATISTICAL ANALYSIS

Statistical analysis of Appendix III and IV groundwater monitoring data was performed on samples collected from the certified groundwater monitoring network pursuant to § 257.93 following the PE-certified statistical method for the former CCR Unit. The statistical method used at the site was developed by Groundwater Stats Consulting, LLC. (GSC), in accordance with §257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, EPA 530/R-09-007 (USEPA, 2009).

5.1 Statistical Methods

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. Statistical analysis was performed using methods described in the PE-certified statistical analysis plan for the site.

5.1.1 Appendix III Statistical Method

Interwell prediction limits (PL), combined with a 1-of-2 verification resample plan is the statistical method used to evaluate the groundwater monitoring data at the former CCR Unit. Interwell PLs pool upgradient well data to establish a background limit for an individual constituent. This method is appropriate where there is no significant variability in the data to be pooled as determined using an Analysis of Variability (ANOVA) test. The most recent sample from each downgradient well is compared to the background limit to identify statistically significant increases (SSIs) over background.

If data from a detection monitoring sampling event initially exceed the PL, the resampling strategy may be used to verify the result within 90 days. If the resample exceeds the PL, the initial exceedance is verified, and an SSI of that Appendix III parameter is determined. When the resample result does not verify the initial result, the initial exceedance is considered an erroneous result and the resample value will replace the initial result. If resampling is not conducted the initial exceedance is verified.

5.1.2 Appendix IV Statistical Method

When in assessment monitoring, Appendix IV constituents are statistically compared to groundwater protection standard (GWPS). Following the Unified Guidance, spatial variation for Appendix III parameters is tested using the ANOVA – this test is not prescribed for Appendix IV constituents. Unlike the statistical evaluation of Appendix III constituents (where single-sample results are compared to the statistical limit), Appendix IV analysis uses the pooled results from each downgradient well to develop a well-specific confidence interval that is compared to the statistical limit. The statistical limit is either the interwell tolerance limit (i.e., background) calculated using the pool of all available upgradient well data, or an applicable groundwater protection standard. Appendix IV background data are screened for outliers and extreme trending

patterns that would lead to artificially elevated statistical limits. Parametric tolerance limits (i.e. UTLs) were calculated using pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The UTLs were then used as the GWPS.

As described in § 257.95(h)(1)-(3), the GWPS is:

- (1) The MCL established under 40 CFR § 141.62 and 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L;
 - (ii) Lead 0.015 mg/L;
 - (iii) Lithium 0.040 mg/L; and
 - (iv) Molybdenum 0.100 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule specified GWPS.

In assessment monitoring, when the lower confidence limit (LCL), or the entire confidence interval, exceeds the GWPS as discussed in the USEPA Unified Guidance, the result is recorded as a statistically significant level (SSL) over the GWPS. **Table 4, Summary of Background Levels and Groundwater Protection Standards** summarizes the background limit established at each monitoring well and the GWPS.

5.2 Statistical Analysis Results

Appendix III and IV analytical data from the November 2020 and March 2021 semi-annual monitoring events was statistically analyzed in accordance with the PE-certified Statistical Analysis Plan. Appendix III statistical analysis was performed, and constituents have not returned to background levels. Appendix IV assessment monitoring parameters were evaluated using confidence intervals to determine if concentrations statistically exceeded the established GWPS.

5.2.1 First Semi-Annual Assessment Monitoring Event

Statistical analysis of Appendix IV data identified the following SSLs over GWPS as follows:

- Arsenic: APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, and APMW-10
- Barium: APMW-2
- Radium: APMW-1R, APMW-2, APMW-3, APMW-7, and APMW-9
- Lithium: APMW-3, APMW-4, APMW-5, APMW-6R, and APMW-8
- Molybdenum: APMW-6R and APMW-8

Confidence intervals, time series plots, and box plots are provided in **Appendix B - Statistical Analyses**. Time-series plots were used to evaluate concentrations in wells and to visually compare concentrations in downgradient wells to those in background wells.

As discussed in Section 6.0 of this report, ASDs have been prepared to address the SSLs for barium and radium.

5.2.2 Second Semi-Annual Assessment Monitoring Event

Statistical analysis of Appendix IV data identified the following SSLs over GWPS as follows:

- Arsenic: APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, and APMW-10
- Barium: APMW-2
- Radium: APMW-1R, APMW-2, APMW-3, APMW-7, and APMW-9
- Lithium: APMW-3, APMW-4, APMW-5, APMW-6R, and APMW-8
- Molybdenum: APMW-6R and APMW-8

Confidence intervals, time series plots, and box plots are provided in **Appendix B**. Time-series plots were used to evaluate concentrations in wells and to visually compare concentrations in downgradient wells to those in background wells.

As discussed in Section 6.0 of this report, ASDs have been prepared to address the SSLs for barium and radium.

5.2.3 Delineation Wells

To evaluate delineation efforts groundwater quality is simply compared to the GWPS. Surface water sampling locations serve as the basis for horizontal delineation in the direction of groundwater flow, and additional wells with a “D” designation were installed for downward vertical delineation.

A review of analytical data for samples from vertical delineation wells identified the following GWPS exceedances during the first semi-annual sampling event:

- Arsenic: APMW-5D, APMW-10D
- Lithium: APMW-4D
- Molybdenum: APMW-4D, APMW-10D

During the second semi-annual sampling event, the following GWPS exceedances were observed in the vertical delineation wells:

- Arsenic: APMW-5D, APMW-10D
- Lithium: APMW-4D
- Molybdenum: APMW-4D

Analytical results from vertical delineation wells identified concentrations above GWPS of Appendix IV constituents and vertical delineation is ongoing.

Analytical results from horizontal sampling locations did not identify concentrations above GWPS of Appendix IV constituents; therefore, horizontal delineation is complete at the former CCR Unit.

6.0 ALTERNATE SOURCE DEMONSTRATIONS

In accordance with 40 CFR § 257.95(g)(3)(ii), 2 separate ASDs were prepared and submitted to MDEQ to address SSLs of barium and radium. The ASD for barium was completed on August 1, 2020, and the ASD for radium completed on December 8, 2020. The barium and radium ASDs are included in **Appendix C, Alternate Source Demonstrations**.

Information presented in the ASDs explains that a source other than the CCR unit caused the SSLs of barium and radium: they are naturally occurring in groundwater at the Site and are not the result of a release from the former CCR Unit. Based on the ASDs, MPC is proposing to exclude barium and radium from the corrective measures evaluation currently underway at the Site.

7.0 MONITORING PROGRAM STATUS

This site is currently in assessment monitoring and evaluating groundwater corrective action alternatives. Statistical evaluations of the groundwater monitoring data for the former CCR Unit identified SSIs of Appendix III and SSLs of Appendix IV groundwater monitoring parameters. . MPC has initiated an ACM pursuant to § 257.95(g)(3)(i) and the Agreed Order. The ACM was completed by August 11, 2020 and posted to the operating record.

8.0 CONCLUSIONS AND FUTURE ACTIONS

Based on the results reported in the *2019 Annual Groundwater Monitoring and Corrective Action Report*, MPC initiated an assessment monitoring program. An ACM was completed on August 11, 2020 to address SSLs of Appendix IV above groundwater protection standards pursuant to 40 CFR § 257.95(g)(5). This *Groundwater Monitoring and Corrective Action Report* has been prepared to fulfill the requirements of USEPA CCR rule 40 CFR 257 Subpart D. Semi-annual assessment monitoring events took place in November 2020 and March 2021. Statistical evaluations of the assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS. The Site remains in assessment monitoring while groundwater corrective remedies are being evaluated. Additional monitoring wells were installed to assess the horizontal and vertical extent of groundwater impacts at the site.

An ASD has been prepared to address SSLs of barium and radium. MPC will continue to characterize the nature and extent of GWPS exceedances for arsenic, lithium, and molybdenum as required by § 257.95(g)(1) and the Agreed Order and report result pursuant to the Agreed Order and § 257.90(e)(3).

The following future actions are planned during the next 12 months at the Site:

- Semi-annual groundwater assessment monitoring, including sampling of horizontal and vertical delineation locations.
- Continue to evaluate vertical delineation of GWPS exceedances.
- Evaluate potential groundwater remedies identified in the ACM report and provide required semi-annual status reports.
- Initiate studies to evaluate natural attenuation mechanisms and capacity in Unit 3 for arsenic, lithium, and molybdenum.
- Design, install, and test groundwater extraction wells for the temporary groundwater remedy and enhanced source control.
- Submit the next Semi-Annual Remedy Selection and Design Progress Report by September 30, 2021.
- Submit the next Semi-Annual Progress Report by September 30, 2021.
- Submit the next Annual Groundwater and Corrective Action Report by August 1, 2022.

9.0 REFERENCES

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Tables

Table 1. Groundwater Monitoring Network Details

Well Name	Installation Date	Purpose	Northing	Easting	Ground Elevation	Top of Casing Elevation	Top of Screen Elevation	Bottom of Screen Elevation
APMW-1	7/12/2016	Water Level	339968.40	924453.57	22.48	24.86	-1.52	-11.92
APMW-1R	1/24/2019	Downgradient (APMW-1 Replacement)	339938.30	924486.30	22.50	25.16	-8.34	-13.34
APMW-2	7/18/2016	Downgradient	339436.26	925145.20	19.95	22.58	-9.05	-19.65
APMW-3	7/18/2016	Downgradient	338466.67	926382.75	5.60	8.40	-17.40	-28.00
APMW-4	7/19/2016	Downgradient	338360.09	926947.41	10.76	13.39	-13.24	-23.84
APMW-5	7/19/2016	Downgradient	339095.64	926946.56	6.01	8.68	-17.99	-28.59
APMW-6	7/20/2016	Not Applicable ³	340025.90	926838.72	7.00	8.91	-16.00	-26.00
APMW-6R	1/29/2019	Downgradient (APMW-6 Replacement)	340071.30	926854.60	5.50	8.11	-44.09	-54.09
APMW-7	7/20/2016	Downgradient	340970.41	927159.53	10.50	13.00	-14.50	-24.30
APMW-8	7/21/2016	Downgradient	341076.09	926536.95	18.08	21.00	-11.60	-21.60
APMW-9	7/21/2016	Downgradient	341069.72	925210.34	19.83	22.41	-9.17	-19.77
APMW-10	7/22/2016	Downgradient	341075.20	924053.45	18.20	21.11	-1.80	-11.40
APMW-11	1/24/2019	Upgradient	342047.37	922071.42	19.60	22.45	-18.59	-28.44
APMW-12	1/28/2019	Upgradient	341563.98	922052.04	17.10	20.06	-22.44	-32.98
PZ-4	1/29/2019	Water Level Only	339990.47	926829.94	5.00	7.93	-20.90	-30.90

Notes:

1. Northing and easting are in feet relative to the State Plane Mississippi East North America Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum of 1988.
3. APMW-6 was damaged and is no longer part of the monitoring network.

Table 1. Groundwater Monitoring Network Details

Well Name	Installation Date	Purpose	Northing	Easting	Ground Elevation	Top of Casing Elevation	Top of Screen Elevation	Bottom of Screen Elevation
APMW-13	6/18/2020	Upgradient	342483.05	926186.44	1.77	4.49	-14.23	-19.23
APMW-14	6/16/2020	Upgradient	342570.07	926269.01	2.04	4.12	-13.96	-18.96
APMW-15	6/17/2020	Upgradient	342649.05	927097.17	2.17	4.25	-17.83	-22.83
APMW-16	6/17/2020	Upgradient	342564.75	927191.96	1.88	4.14	-17.13	-22.13
APMW-2D	4/28/2020	Vertical Delineation	339427.96	925162.46	21.40	23.78	-128.60	-138.60
APMW-3D	4/30/2020	Vertical Delineation	338457.03	926404.68	7.12	9.77	-77.88	-82.88
APMW-4D	5/1/2020	Vertical Delineation	338347.21	926910.01	12.94	12.70	-77.06	-87.06
APMW-5D	5/4/2020	Vertical Delineation	339099.81	926933.66	10.69	10.30	-95.31	-100.31
APMW-6D	5/5/2020	Vertical Delineation	340046.56	926847.95	7.81	10.05	-90.19	-95.19
APMW-8D	5/13/2020	Vertical Delineation	341077.32	926559.91	19.77	22.23	-65.23	-70.23
APMW-10D	5/15/2020	Vertical Delineation	341077.51	924031.34	19.06	21.68	-179.94	-184.94

Notes:

1. Northing and easting are in feet relative to the State Plane Mississippi East North America Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum of 1988.
3. APMW-6 was damaged and is no longer part of the monitoring network.

Table 2. Groundwater Sampling Event Summary

Purpose of Sampling Event		SA01 2020 Assessment Monitoring	SA02 2021 Assessment Monitoring
APMW-1R	Downgradient	11/4/2020	3/8/2021
APMW-2	Downgradient	11/5/2020	3/8/2021
APMW-3	Downgradient	11/5/2020	3/9/2021
APMW-4	Downgradient	11/9/2020	3/9/2021
APMW-5	Downgradient	11/9/2020	3/9/2021
APMW-6R	Downgradient	11/20/2020	3/9/2021
APMW-7	Downgradient	11/10/2020	3/9/2021
APMW-8	Downgradient	11/9/2020	3/9/2021
APMW-9	Downgradient	11/20/2020	3/8/2021
APMW-10	Downgradient	11/20/2020	3/8/2021
APMW-11	Upgradient	11/9/2020	3/10/2021
APMW-12	Upgradient	11/20/2020	3/10/2021
APMW-13	Upgradient	11/4/2020	3/8/2021
APMW-14	Upgradient	11/4/2020	3/8/2021
APMW-15	Upgradient	11/3/2020	3/8/2021
APMW-16	Upgradient	11/4/2020	3/8/2021
APMW-2D	Vertical Delineation	11/5/2020	3/8/2021
APMW-3D	Vertical Delineation	11/9/2020	3/9/2021
APMW-4D	Vertical Delineation	11/9/2020	3/9/2021
APMW-5D	Vertical Delineation	11/9/2020	3/9/2021
APMW-6D	Vertical Delineation	11/10/2020	3/10/2021
APMW-8D	Vertical Delineation	11/10/2020	3/9/2021
APMW-10D	Vertical Delineation	11/20/2020	3/8/2021

Notes:

1. SA # indicates Semiannual Assessment Monitoring Event and the number corresponds with the event number.

Table 3. Summary of Groundwater Elevations

Well ID	TOC Elev (ft MSL)	Depth to GW 11/3/2020 (ft BTOC)	GW Elevation 11/3/2020 (ft MSL)	Depth to GW 3/12/2021 (ft BTOC)	GW Elevation 3/12/2021 (ft MSL)
APMW-1	24.86	24.85	0.01	23.85	1.01
APMW-1R	25.16	25.20	-0.04	24.15	1.01
APMW-2	22.58	22.85	-0.27	21.68	0.90
APMW-3	8.40	8.58	-0.18	7.42	0.98
APMW-4	13.39	12.87	0.52	12.25	1.14
APMW-5	8.68	7.70	0.98	7.43	1.25
APMW-6	8.91	7.55	1.36	7.27	1.64
APMW-6R	8.11	6.70	1.41	6.45	1.66
APMW-7	13.00	12.10	0.90	11.65	1.35
APMW-8	21.00	21.65	-0.65	19.94	1.06
APMW-9	22.41	23.00	-0.59	21.32	1.09
APMW-10	21.11	21.39	-0.28	19.83	1.28
APMW-11	22.45	19.66	2.79	17.27	5.18
APMW-12	20.06	16.52	3.54	14.95	5.11
PZ-4	7.93	6.55	1.38	6.30	1.63
APMW-13	4.49	3.65	0.84	1.90	2.59
APMW-14	4.12	3.35	0.77	1.60	2.52
APMW-15	4.25	3.00	1.25	1.75	2.50
APMW-16	4.14	2.90	1.24	1.57	2.57
APMW-2D	23.78	15.35	8.43	15.58	8.20
APMW-3D	9.77	7.50	2.27	6.84	2.93
APMW-4D	12.70	11.15	1.55	10.62	2.08
APMW-5D	10.30	9.90	0.40	8.90	1.40
APMW-6D	10.05	7.20	2.85	7.04	3.01
APMW-8D	22.23	20.32	1.91	20.13	2.10
APMW-10D	21.68	14.80	6.88	14.33	7.35

Notes:

1. TOC Elev indicates top of casing elevation
2. ft MLS indicates feet relative to mean sea level.
3. BTOC indicates below top of casing.

Table 4. Summary of Background Levels and Groundwater Protection Standards

Analyte	Units	Background	Rule Specified GWPS	Site-Specific GWPS
Antimony	mg/L	0.002	0.006	0.006
Arsenic	mg/L	0.005	0.01	0.01
Barium	mg/L	0.24	2	2
Beryllium	mg/L	0.0025	0.004	0.004
Cadmium	mg/L	0.0025	0.005	0.005
Chromium	mg/L	0.0044	0.1	0.1
Cobalt	mg/L	0.0025	0.006	0.006
Combined Radium-226/228	pCi/L	5.04	5	5.04
Fluoride	mg/L	2	4	4
Lead	mg/L	0.001	0.015	0.015
Lithium	mg/L	0.027	0.04	0.04
Mercury	mg/L	0.0002	0.002	0.002
Molybdenum	mg/L	0.015	0.1	0.1
Selenium	mg/L	0.005	0.05	0.05
Thallium	mg/L	0.001	0.002	0.002

Note:



1. Rule Specified GWPS is the MCL or standard listed in the CCR Rule.
2. Site-Specific GWPS is the greater of background or rule specified GWPS.

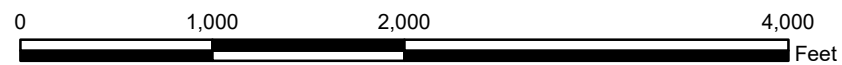
Figures



Service Layer Credits: USDA, NRCS, MARIS

Legend

-  Plant Watson Property Boundary
-  CCR Unit Boundary



SCALE	1:12000
DATE	7/31/2020
DRAWN BY	KAR
CHECKED BY	LPC

DRAWING TITLE
**SITE LOCATION MAP
 PLANT WATSON
 FORMER CCR UNIT**





FIGURE NO
FIGURE 1

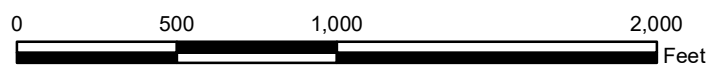





Service Layer Credits: USDA, NRCS, MARIS

Legend

-  Downgradient Monitoring Well
-  Upgradient Monitoring Well
-  Delineation Well
-  CCR Unit Boundary



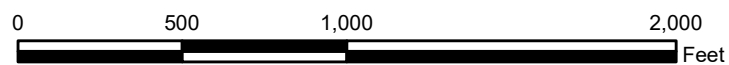
SCALE	1:7200
DATE	7/28/2021
DRAWN BY	KWR
CHECKED BY	LPC

DRAWING TITLE	
MONITORING WELL NETWORK PLANT WATSON FORMER CCR UNIT	
FIGURE NO	FIGURE 2
	



Legend	
	Monitoring Well
	Piezometer
	Estimated Groundwater Elevation Contour (ft NAVD88)
	Inferred Groundwater Elevation Contour (ft NAVD88)
	Inferred Groundwater Flow Direction
	CCR Unit Boundary

APMW-1 Well Name
0.01 Groundwater Elevation (ft NAVD88)



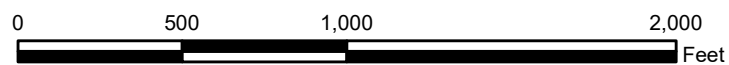
NOTE: ft NAVD88 indicates feet above North American Vertical Datum of 1988

SCALE	1:7000
DATE	7/27/2021
DRAWN BY	JEM
CHECKED BY	LPC

DRAWING TITLE	
UNIT 3 POTENTIOMETRIC SURFACE CONTOUR NOVEMBER 3, 2020 PLANT WATSON FORMER CCR UNIT	
FIGURE NO	FIGURE 3



Legend	
	Monitoring Well
	Piezometer
	Estimated Groundwater Elevation Contour (ft NAVD88)
	Inferred Groundwater Elevation Contour (ft NAVD88)
	CCR Unit Boundary
APMW-1 1.01	Well Name Groundwater Elevation (ft NAVD88)



NOTE: ft NAVD88 indicates feet above North American Vertical Datum of 1988

SCALE 1:7000	DRAWING TITLE UNIT 3 POTENTIOMETRIC SURFACE CONTOUR MARCH 12, 2021 PLANT WATSON FORMER CCR UNIT
DATE 7/28/2021	
DRAWN BY JEM	FIGURE NO FIGURE 4
CHECKED BY LPC	
Southern Company	

Appendix A

1st
Semi-Annual
Monitoring Event

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-113329-1
Client Project/Site: Plant Watson AP

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
11/27/2020 8:43:39 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through
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Have a Question?



Visit us at:
www.eurofinsus.com/Env

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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Job ID: 180-113329-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-113329-1

Comments

No additional comments.

Receipt

The samples were received on 11/6/2020 9:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.9° C, 2.4° C and 3.4° C.

Receipt Exceptions

The volume in the 500mL unpreserved containers for the following samples is much darker than the other containers. APMW-15 (180-113329-7) and DUP-01 (180-113329-9)

GC Semi VOA

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

Metals

Method 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-337962 and analytical batch 180-338293 were outside control limits for selenium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21
California	State	2891	04-30-21
Connecticut	State	PH-0688	09-30-20 *
Florida	NELAP	E871008	06-30-21
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-21
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-21
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-21
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-21
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-21
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-21

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

Eurofins TestAmerica, Pittsburgh

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	200041	10-09-21
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-21
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-21
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-21
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	12-31-20

Sample Summary

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-113329-1	APMW-1R	Water	11/04/20 15:05	11/06/20 09:00	
180-113329-2	APMW-2	Water	11/05/20 10:45	11/06/20 09:00	
180-113329-3	APMW-2D	Water	11/05/20 10:00	11/06/20 09:00	
180-113329-4	APMW-3	Water	11/05/20 12:00	11/06/20 09:00	
180-113329-5	APMW-13	Water	11/04/20 09:50	11/06/20 09:00	
180-113329-6	APMW-14	Water	11/04/20 11:30	11/06/20 09:00	
180-113329-7	APMW-15	Water	11/03/20 14:40	11/06/20 09:00	
180-113329-8	APMW-16	Water	11/04/20 08:30	11/06/20 09:00	
180-113329-9	DUP-01	Water	11/03/20 13:40	11/06/20 09:00	
180-113329-10	DUP-02	Water	11/04/20 07:30	11/06/20 09:00	
180-113329-11	DUP-03	Water	11/05/20 09:45	11/06/20 09:00	
180-113329-12	FB-01	Water	11/04/20 15:10	11/06/20 09:00	
180-113329-13	EB-01	Water	11/03/20 11:55	11/06/20 09:00	

Method Summary

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
7470A	Mercury (CVAA)	SW846	TAL PEN
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	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 = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: APMW-1R

Lab Sample ID: 180-113329-1

Date Collected: 11/04/20 15:05

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			337205	11/16/20 12:24	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		50			337205	11/16/20 12:45	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Prep	7470A			40 mL	40 mL	510232	11/12/20 08:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			510698	11/13/20 12:28	NET	TAL PEN
Instrument ID: HYDRA AA2										
Total Recoverable	Prep	3005A			50 mL	50 mL	337962	11/20/20 08:35	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338293	11/21/20 18:32	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	336612	11/10/20 16:16	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2

Lab Sample ID: 180-113329-2

Date Collected: 11/05/20 10:45

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			337205	11/16/20 13:47	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		50			337205	11/16/20 14:08	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Prep	7470A			40 mL	40 mL	510232	11/12/20 08:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			510698	11/13/20 12:30	NET	TAL PEN
Instrument ID: HYDRA AA2										
Total Recoverable	Prep	3005A			50 mL	50 mL	337962	11/20/20 08:35	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338293	11/21/20 18:45	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	336974	11/12/20 18:22	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2D

Lab Sample ID: 180-113329-3

Date Collected: 11/05/20 10:00

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			337205	11/16/20 22:50	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Prep	7470A			40 mL	40 mL	510232	11/12/20 08:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			510698	11/13/20 12:32	NET	TAL PEN
Instrument ID: HYDRA AA2										
Total Recoverable	Prep	3005A			50 mL	50 mL	337962	11/20/20 08:35	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338293	11/21/20 18:59	RSK	TAL PIT
Instrument ID: A										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: APMW-2D

Lab Sample ID: 180-113329-3

Date Collected: 11/05/20 10:00

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	336974	11/12/20 18:22	GRB	TAL PIT

Client Sample ID: APMW-3

Lab Sample ID: 180-113329-4

Date Collected: 11/05/20 12:00

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		25			337326	11/18/20 05:22	SAT	TAL PIT
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		250			337326	11/18/20 05:38	SAT	TAL PIT
Total/NA	Prep	7470A			40 mL	40 mL	510232	11/12/20 08:00	NET	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			510698	11/13/20 12:38	NET	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	337962	11/20/20 08:35	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			338293	11/21/20 19:03	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	5 mL	100 mL	336974	11/12/20 18:22	GRB	TAL PIT

Client Sample ID: APMW-13

Lab Sample ID: 180-113329-5

Date Collected: 11/04/20 09:50

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		5			337205	11/16/20 14:29	SAT	TAL PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		50			337205	11/16/20 14:50	SAT	TAL PIT
Total/NA	Prep	7470A			40 mL	40 mL	510232	11/12/20 08:00	NET	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			510698	11/13/20 12:40	NET	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	337962	11/20/20 08:35	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			338293	11/21/20 19:17	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	336612	11/10/20 16:16	GRB	TAL PIT

Client Sample ID: APMW-14

Lab Sample ID: 180-113329-6

Date Collected: 11/04/20 11:30

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		10			337205	11/16/20 15:53	SAT	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: APMW-14

Lab Sample ID: 180-113329-6

Date Collected: 11/04/20 11:30

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			337205	11/16/20 16:14	SAT	TAL PIT
Instrument ID: HYDRA AA2										
Total/NA	Prep	7470A			40 mL	40 mL	510232	11/12/20 08:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			510698	11/13/20 12:42	NET	TAL PEN
Instrument ID: HYDRA AA2										
Total Recoverable	Prep	3005A			50 mL	50 mL	337962	11/20/20 08:35	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338293	11/21/20 19:31	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	336612	11/10/20 16:16	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-15

Lab Sample ID: 180-113329-7

Date Collected: 11/03/20 14:40

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			337205	11/16/20 19:21	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		100			337205	11/16/20 19:42	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Prep	7470A			40 mL	40 mL	510232	11/12/20 08:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			510698	11/13/20 12:44	NET	TAL PEN
Instrument ID: HYDRA AA2										
Total Recoverable	Prep	3005A			50 mL	50 mL	337962	11/20/20 08:35	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338293	11/21/20 19:45	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	336449	11/09/20 17:04	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-16

Lab Sample ID: 180-113329-8

Date Collected: 11/04/20 08:30

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			337205	11/16/20 16:34	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		100			337205	11/16/20 16:55	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Prep	7470A			40 mL	40 mL	510232	11/12/20 08:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			510698	11/13/20 12:45	NET	TAL PEN
Instrument ID: HYDRA AA2										
Total Recoverable	Prep	3005A			50 mL	50 mL	337962	11/20/20 08:35	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338293	11/21/20 19:59	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	336612	11/10/20 16:16	GRB	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: DUP-01

Lab Sample ID: 180-113329-9

Date Collected: 11/03/20 13:40

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			337205	11/16/20 17:58	SAT	TAL PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	300.0		100			337205	11/16/20 18:19	SAT	TAL PIT
	Instrument ID: INTEGRION									
Total/NA	Prep	7470A			40 mL	40 mL	510232	11/12/20 08:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			510698	11/13/20 12:47	NET	TAL PEN
	Instrument ID: HYDRA AA2									
Total Recoverable	Prep	3005A			50 mL	50 mL	337962	11/20/20 08:35	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338293	11/21/20 21:05	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	336449	11/09/20 17:04	GRB	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-02

Lab Sample ID: 180-113329-10

Date Collected: 11/04/20 07:30

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			337205	11/16/20 18:40	SAT	TAL PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	300.0		100			337205	11/16/20 19:00	SAT	TAL PIT
	Instrument ID: INTEGRION									
Total/NA	Prep	7470A			40 mL	40 mL	510232	11/12/20 08:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			510698	11/13/20 12:49	NET	TAL PEN
	Instrument ID: HYDRA AA2									
Total Recoverable	Prep	3005A			50 mL	50 mL	337962	11/20/20 08:35	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338293	11/21/20 21:19	RSK	TAL PIT
	Instrument ID: A									
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	336612	11/10/20 16:16	GRB	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-03

Lab Sample ID: 180-113329-11

Date Collected: 11/05/20 09:45

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			337205	11/16/20 15:11	SAT	TAL PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	300.0		50			337205	11/16/20 15:32	SAT	TAL PIT
	Instrument ID: INTEGRION									
Total/NA	Prep	7470A			40 mL	40 mL	510232	11/12/20 08:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			510698	11/13/20 12:51	NET	TAL PEN
	Instrument ID: HYDRA AA2									

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: DUP-03

Date Collected: 11/05/20 09:45

Date Received: 11/06/20 09:00

Lab Sample ID: 180-113329-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	337962	11/20/20 08:35	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338293	11/21/20 21:33	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	336974	11/12/20 18:22	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-01

Date Collected: 11/04/20 15:10

Date Received: 11/06/20 09:00

Lab Sample ID: 180-113329-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			337205	11/16/20 10:18	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Prep	7470A			40 mL	40 mL	510232	11/12/20 08:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			510698	11/13/20 12:53	NET	TAL PEN
Instrument ID: HYDRA AA2										
Total Recoverable	Prep	3005A			50 mL	50 mL	337962	11/20/20 08:35	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338293	11/21/20 21:46	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	336612	11/10/20 16:16	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-01

Date Collected: 11/03/20 11:55

Date Received: 11/06/20 09:00

Lab Sample ID: 180-113329-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			337205	11/16/20 10:39	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Prep	7470A			40 mL	40 mL	510232	11/12/20 08:00	NET	TAL PEN
Total/NA	Analysis	7470A		1			510698	11/13/20 12:55	NET	TAL PEN
Instrument ID: HYDRA AA2										
Total Recoverable	Prep	3005A			50 mL	50 mL	337962	11/20/20 08:35	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338293	11/21/20 21:50	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	336449	11/09/20 17:04	GRB	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

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

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Analyst References:

Lab: TAL PEN

Batch Type: Prep

NET = Nikkael Thicklin

Batch Type: Analysis

NET = Nikkael Thicklin

Lab: TAL PIT

Batch Type: Prep

KHM = Kyle Mucroski

Batch Type: Analysis

GRB = Gabriel Berghe

RSK = Robert Kurtz

SAT = Stephen Tallam

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: APMW-1R

Lab Sample ID: 180-113329-1

Date Collected: 11/04/20 15:05

Matrix: Water

Date Received: 11/06/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4700		50	16	mg/L			11/16/20 12:45	50
Fluoride	<0.22		1.0	0.22	mg/L			11/16/20 12:24	5
Sulfate	10		5.0	1.9	mg/L			11/16/20 12:24	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		11/12/20 08:00	11/13/20 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 18:32	1
Arsenic	0.00069	J	0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 18:32	1
Barium	1.4		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 18:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 18:32	1
Boron	6.8		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 18:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 18:32	1
Calcium	200		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 18:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 18:32	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 18:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 18:32	1
Lithium	0.014		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 18:32	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 18:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 18:32	1
Thallium	0.00019	J	0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 18:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5000		100	100	mg/L			11/10/20 16:16	1

Client Sample ID: APMW-2

Lab Sample ID: 180-113329-2

Date Collected: 11/05/20 10:45

Matrix: Water

Date Received: 11/06/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5100		50	16	mg/L			11/16/20 14:08	50
Fluoride	<0.22		1.0	0.22	mg/L			11/16/20 13:47	5
Sulfate	4.4	J	5.0	1.9	mg/L			11/16/20 13:47	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		11/12/20 08:00	11/13/20 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 18:45	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 18:45	1
Barium	3.2		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 18:45	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 18:45	1
Boron	3.6		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 18:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 18:45	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: APMW-2

Lab Sample ID: 180-113329-2

Date Collected: 11/05/20 10:45

Matrix: Water

Date Received: 11/06/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	350		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 18:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 18:45	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 18:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 18:45	1
Lithium	0.031		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 18:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 18:45	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 18:45	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4100		40	40	mg/L			11/12/20 18:22	1

Client Sample ID: APMW-2D

Lab Sample ID: 180-113329-3

Date Collected: 11/05/20 10:00

Matrix: Water

Date Received: 11/06/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.4		1.0	0.32	mg/L			11/16/20 22:50	1
Fluoride	0.15	J	0.20	0.044	mg/L			11/16/20 22:50	1
Sulfate	13		1.0	0.38	mg/L			11/16/20 22:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/12/20 08:00	11/13/20 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 18:59	1
Arsenic	0.0033		0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 18:59	1
Barium	0.038		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 18:59	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 18:59	1
Boron	0.12		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 18:59	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 18:59	1
Calcium	4.6		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 18:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 18:59	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 18:59	1
Lead	0.00024	J	0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 18:59	1
Lithium	0.010		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 18:59	1
Molybdenum	0.0038	J	0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 18:59	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 18:59	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 18:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			11/12/20 18:22	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: APMW-3

Lab Sample ID: 180-113329-4

Date Collected: 11/05/20 12:00

Matrix: Water

Date Received: 11/06/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9600		250	80	mg/L			11/18/20 05:38	250
Fluoride	<1.1		5.0	1.1	mg/L			11/18/20 05:22	25
Sulfate	1000		25	9.5	mg/L			11/18/20 05:22	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		11/12/20 08:00	11/13/20 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 19:03	1
Arsenic	0.064		0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 19:03	1
Barium	0.10		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 19:03	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 19:03	1
Boron	5.1		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 19:03	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 19:03	1
Calcium	370		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 19:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 19:03	1
Cobalt	0.0030		0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 19:03	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 19:03	1
Lithium	0.070		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 19:03	1
Molybdenum	0.067		0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 19:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 19:03	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 19:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	19000		200	200	mg/L			11/12/20 18:22	1

Client Sample ID: APMW-13

Lab Sample ID: 180-113329-5

Date Collected: 11/04/20 09:50

Matrix: Water

Date Received: 11/06/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5400		50	16	mg/L			11/16/20 14:50	50
Fluoride	0.24	J	1.0	0.22	mg/L			11/16/20 14:29	5
Sulfate	1700		50	19	mg/L			11/16/20 14:50	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		11/12/20 08:00	11/13/20 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 19:17	1
Arsenic	0.00032	J	0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 19:17	1
Barium	0.11		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 19:17	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 19:17	1
Boron	0.88		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 19:17	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 19:17	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: APMW-13

Lab Sample ID: 180-113329-5

Date Collected: 11/04/20 09:50

Matrix: Water

Date Received: 11/06/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	110		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 19:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 19:17	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 19:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 19:17	1
Lithium	0.016		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 19:17	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 19:17	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 19:17	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 19:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5400		100	100	mg/L			11/10/20 16:16	1

Client Sample ID: APMW-14

Lab Sample ID: 180-113329-6

Date Collected: 11/04/20 11:30

Matrix: Water

Date Received: 11/06/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3100		100	32	mg/L			11/16/20 16:14	100
Fluoride	<0.44		2.0	0.44	mg/L			11/16/20 15:53	10
Sulfate	670		10	3.8	mg/L			11/16/20 15:53	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/12/20 08:00	11/13/20 12:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 19:31	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 19:31	1
Barium	0.22		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 19:31	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 19:31	1
Boron	0.85		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 19:31	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 19:31	1
Calcium	120		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 19:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 19:31	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 19:31	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 19:31	1
Lithium	<0.0034		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 19:31	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 19:31	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 19:31	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 19:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6500		200	200	mg/L			11/10/20 16:16	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: APMW-15

Lab Sample ID: 180-113329-7

Date Collected: 11/03/20 14:40

Matrix: Water

Date Received: 11/06/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4900		100	32	mg/L			11/16/20 19:42	100
Fluoride	<0.44		2.0	0.44	mg/L			11/16/20 19:21	10
Sulfate	550		10	3.8	mg/L			11/16/20 19:21	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/12/20 08:00	11/13/20 12:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 19:45	1
Arsenic	0.0013		0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 19:45	1
Barium	0.054		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 19:45	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 19:45	1
Boron	1.2		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 19:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 19:45	1
Calcium	120		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 19:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 19:45	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 19:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 19:45	1
Lithium	0.030		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 19:45	1
Molybdenum	0.00082 J		0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 19:45	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 19:45	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 19:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	9200		200	200	mg/L			11/09/20 17:04	1

Client Sample ID: APMW-16

Lab Sample ID: 180-113329-8

Date Collected: 11/04/20 08:30

Matrix: Water

Date Received: 11/06/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4700		100	32	mg/L			11/16/20 16:55	100
Fluoride	<0.44		2.0	0.44	mg/L			11/16/20 16:34	10
Sulfate	440		10	3.8	mg/L			11/16/20 16:34	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/12/20 08:00	11/13/20 12:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 19:59	1
Arsenic	0.0036		0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 19:59	1
Barium	0.076		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 19:59	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 19:59	1
Boron	1.2		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 19:59	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 19:59	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: APMW-16

Lab Sample ID: 180-113329-8

Date Collected: 11/04/20 08:30

Matrix: Water

Date Received: 11/06/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 19:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 19:59	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 19:59	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 19:59	1
Lithium	0.029		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 19:59	1
Molybdenum	0.00090	J	0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 19:59	1
Selenium	<0.0015	F1	0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 19:59	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 19:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8500		200	200	mg/L			11/10/20 16:16	1

Client Sample ID: DUP-01

Lab Sample ID: 180-113329-9

Date Collected: 11/03/20 13:40

Matrix: Water

Date Received: 11/06/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5000		100	32	mg/L			11/16/20 18:19	100
Fluoride	15		2.0	0.44	mg/L			11/16/20 17:58	10
Sulfate	1200		10	3.8	mg/L			11/16/20 17:58	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/12/20 08:00	11/13/20 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 21:05	1
Arsenic	0.0014		0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 21:05	1
Barium	0.056		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 21:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 21:05	1
Boron	1.3		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 21:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 21:05	1
Calcium	130		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 21:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 21:05	1
Cobalt	0.00014	J	0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 21:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 21:05	1
Lithium	0.032		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 21:05	1
Molybdenum	0.00088	J	0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 21:05	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 21:05	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 21:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8800		200	200	mg/L			11/09/20 17:04	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: DUP-02

Lab Sample ID: 180-113329-10

Date Collected: 11/04/20 07:30

Matrix: Water

Date Received: 11/06/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4900		100	32	mg/L			11/16/20 19:00	100
Fluoride	<0.44		2.0	0.44	mg/L			11/16/20 18:40	10
Sulfate	460		10	3.8	mg/L			11/16/20 18:40	10

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/12/20 08:00	11/13/20 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 21:19	1
Arsenic	0.0032		0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 21:19	1
Barium	0.077		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 21:19	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 21:19	1
Boron	1.3		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 21:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 21:19	1
Calcium	130		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 21:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 21:19	1
Cobalt	0.00017	J	0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 21:19	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 21:19	1
Lithium	0.029		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 21:19	1
Molybdenum	0.00096	J	0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 21:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 21:19	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 21:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8800		200	200	mg/L			11/10/20 16:16	1

Client Sample ID: DUP-03

Lab Sample ID: 180-113329-11

Date Collected: 11/05/20 09:45

Matrix: Water

Date Received: 11/06/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5000		50	16	mg/L			11/16/20 15:32	50
Fluoride	<0.22		1.0	0.22	mg/L			11/16/20 15:11	5
Sulfate	4.3	J	5.0	1.9	mg/L			11/16/20 15:11	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		11/12/20 08:00	11/13/20 12:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 21:33	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 21:33	1
Barium	3.4		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 21:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 21:33	1
Boron	3.7		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 21:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 21:33	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: DUP-03

Lab Sample ID: 180-113329-11

Date Collected: 11/05/20 09:45

Matrix: Water

Date Received: 11/06/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 21:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 21:33	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 21:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 21:33	1
Lithium	0.033		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 21:33	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 21:33	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 21:33	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 21:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4000		40	40	mg/L			11/12/20 18:22	1

Client Sample ID: FB-01

Lab Sample ID: 180-113329-12

Date Collected: 11/04/20 15:10

Matrix: Water

Date Received: 11/06/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/16/20 10:18	1
Fluoride	<0.044		0.20	0.044	mg/L			11/16/20 10:18	1
Sulfate	<0.38		1.0	0.38	mg/L			11/16/20 10:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/12/20 08:00	11/13/20 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 21:46	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 21:46	1
Barium	<0.0016		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 21:46	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 21:46	1
Boron	<0.039		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 21:46	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 21:46	1
Calcium	<0.13		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 21:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 21:46	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 21:46	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 21:46	1
Lithium	<0.0034		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 21:46	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 21:46	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 21:46	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 21:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			11/10/20 16:16	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Client Sample ID: EB-01

Lab Sample ID: 180-113329-13

Date Collected: 11/03/20 11:55

Matrix: Water

Date Received: 11/06/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/16/20 10:39	1
Fluoride	<0.044		0.20	0.044	mg/L			11/16/20 10:39	1
Sulfate	<0.38		1.0	0.38	mg/L			11/16/20 10:39	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/12/20 08:00	11/13/20 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 21:50	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 21:50	1
Barium	<0.0016		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 21:50	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 21:50	1
Boron	<0.039		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 21:50	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 21:50	1
Calcium	<0.13		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 21:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 21:50	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 21:50	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 21:50	1
Lithium	<0.0034		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 21:50	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 21:50	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 21:50	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 21:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			11/09/20 17:04	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-337205/6
Matrix: Water
Analysis Batch: 337205

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/16/20 07:21	1
Fluoride	<0.044		0.20	0.044	mg/L			11/16/20 07:21	1
Sulfate	<0.38		1.0	0.38	mg/L			11/16/20 07:21	1

Lab Sample ID: LCS 180-337205/5
Matrix: Water
Analysis Batch: 337205

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.7		mg/L		105	90 - 110
Fluoride	2.50	2.33		mg/L		93	90 - 110
Sulfate	50.0	51.9		mg/L		104	90 - 110

Lab Sample ID: 180-113329-3 MS
Matrix: Water
Analysis Batch: 337205

Client Sample ID: APMW-2D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.4		50.0	56.4		mg/L		102	90 - 110
Fluoride	0.15	J	2.50	2.71		mg/L		102	90 - 110
Sulfate	13		50.0	62.3		mg/L		99	90 - 110

Lab Sample ID: MB 180-337326/53
Matrix: Water
Analysis Batch: 337326

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/17/20 22:46	1
Fluoride	<0.044		0.20	0.044	mg/L			11/17/20 22:46	1
Sulfate	<0.38		1.0	0.38	mg/L			11/17/20 22:46	1

Lab Sample ID: LCS 180-337326/52
Matrix: Water
Analysis Batch: 337326

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.6		mg/L		97	90 - 110
Fluoride	2.50	2.32		mg/L		93	90 - 110
Sulfate	50.0	47.0		mg/L		94	90 - 110

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-510232/14-A
Matrix: Water
Analysis Batch: 510698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/12/20 08:00	11/13/20 12:15	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

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

Lab Sample ID: LCS 400-510232/15-A
Matrix: Water
Analysis Batch: 510698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510232
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000955		mg/L		95	80 - 120

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

Lab Sample ID: MB 180-337962/1-A
Matrix: Water
Analysis Batch: 338293

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 337962

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/20/20 08:35	11/21/20 18:11	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/20/20 08:35	11/21/20 18:11	1
Barium	<0.0016		0.010	0.0016	mg/L		11/20/20 08:35	11/21/20 18:11	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/20/20 08:35	11/21/20 18:11	1
Boron	<0.039		0.080	0.039	mg/L		11/20/20 08:35	11/21/20 18:11	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/20/20 08:35	11/21/20 18:11	1
Calcium	<0.13		0.50	0.13	mg/L		11/20/20 08:35	11/21/20 18:11	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/20/20 08:35	11/21/20 18:11	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/20/20 08:35	11/21/20 18:11	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/20/20 08:35	11/21/20 18:11	1
Lithium	<0.0034		0.0050	0.0034	mg/L		11/20/20 08:35	11/21/20 18:11	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/20/20 08:35	11/21/20 18:11	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/20/20 08:35	11/21/20 18:11	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/20/20 08:35	11/21/20 18:11	1

Lab Sample ID: LCS 180-337962/2-A
Matrix: Water
Analysis Batch: 338293

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 337962
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.214		mg/L		86	80 - 120
Arsenic	1.00	0.914		mg/L		91	80 - 120
Barium	1.00	0.919		mg/L		92	80 - 120
Beryllium	0.500	0.469		mg/L		94	80 - 120
Boron	1.25	1.24		mg/L		99	80 - 120
Cadmium	0.500	0.450		mg/L		90	80 - 120
Calcium	25.0	26.5		mg/L		106	80 - 120
Chromium	0.500	0.449		mg/L		90	80 - 120
Cobalt	0.500	0.464		mg/L		93	80 - 120
Lead	0.500	0.467		mg/L		93	80 - 120
Lithium	0.500	0.451		mg/L		90	80 - 120
Molybdenum	0.500	0.465		mg/L		93	80 - 120
Selenium	1.00	0.933		mg/L		93	80 - 120
Thallium	1.00	0.933		mg/L		93	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

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

Lab Sample ID: 180-113329-8 MS
Matrix: Water
Analysis Batch: 338293

Client Sample ID: APMW-16
Prep Type: Total Recoverable
Prep Batch: 337962

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.00038		0.250	0.227		mg/L		91	75 - 125
Arsenic	0.0036		1.00	0.924		mg/L		92	75 - 125
Barium	0.076		1.00	1.06		mg/L		98	75 - 125
Beryllium	<0.00018		0.500	0.478		mg/L		96	75 - 125
Boron	1.2		1.25	2.44		mg/L		100	75 - 125
Cadmium	<0.00022		0.500	0.448		mg/L		90	75 - 125
Calcium	130		25.0	165	4	mg/L		123	75 - 125
Chromium	<0.0015		0.500	0.453		mg/L		91	75 - 125
Cobalt	<0.00013		0.500	0.509		mg/L		102	75 - 125
Lead	<0.00013		0.500	0.499		mg/L		100	75 - 125
Lithium	0.029		0.500	0.486		mg/L		91	75 - 125
Molybdenum	0.00090	J	0.500	0.516		mg/L		103	75 - 125
Selenium	<0.0015	F1	1.00	0.616	F1	mg/L		62	75 - 125
Thallium	<0.00015		1.00	0.992		mg/L		99	75 - 125

Lab Sample ID: 180-113329-8 MSD
Matrix: Water
Analysis Batch: 338293

Client Sample ID: APMW-16
Prep Type: Total Recoverable
Prep Batch: 337962

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Antimony	<0.00038		0.250	0.231		mg/L		92	75 - 125	2	20
Arsenic	0.0036		1.00	0.957		mg/L		95	75 - 125	3	20
Barium	0.076		1.00	1.07		mg/L		99	75 - 125	1	20
Beryllium	<0.00018		0.500	0.489		mg/L		98	75 - 125	2	20
Boron	1.2		1.25	2.53		mg/L		108	75 - 125	4	20
Cadmium	<0.00022		0.500	0.457		mg/L		91	75 - 125	2	20
Calcium	130		25.0	164	4	mg/L		117	75 - 125	1	20
Chromium	<0.0015		0.500	0.469		mg/L		94	75 - 125	3	20
Cobalt	<0.00013		0.500	0.517		mg/L		103	75 - 125	2	20
Lead	<0.00013		0.500	0.507		mg/L		101	75 - 125	2	20
Lithium	0.029		0.500	0.496		mg/L		93	75 - 125	2	20
Molybdenum	0.00090	J	0.500	0.524		mg/L		105	75 - 125	2	20
Selenium	<0.0015	F1	1.00	0.656	F1	mg/L		66	75 - 125	6	20
Thallium	<0.00015		1.00	1.01		mg/L		101	75 - 125	2	20

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

Lab Sample ID: MB 180-336449/2
Matrix: Water
Analysis Batch: 336449

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	<10		10	10	mg/L			11/09/20 17:04	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

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

Lab Sample ID: LCS 180-336449/1
Matrix: Water
Analysis Batch: 336449

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	714	744		mg/L		104	80 - 120

Lab Sample ID: MB 180-336612/2
Matrix: Water
Analysis Batch: 336612

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	<10		10	10	mg/L			11/10/20 16:16	1

Lab Sample ID: LCS 180-336612/1
Matrix: Water
Analysis Batch: 336612

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	714	736		mg/L		103	80 - 120

Lab Sample ID: MB 180-336974/2
Matrix: Water
Analysis Batch: 336974

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	<10		10	10	mg/L			11/12/20 18:22	1

Lab Sample ID: LCS 180-336974/1
Matrix: Water
Analysis Batch: 336974

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	714	714		mg/L		100	80 - 120

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

HPLC/IC

Analysis Batch: 337205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113329-1	APMW-1R	Total/NA	Water	300.0	
180-113329-1	APMW-1R	Total/NA	Water	300.0	
180-113329-2	APMW-2	Total/NA	Water	300.0	
180-113329-2	APMW-2	Total/NA	Water	300.0	
180-113329-3	APMW-2D	Total/NA	Water	300.0	
180-113329-5	APMW-13	Total/NA	Water	300.0	
180-113329-5	APMW-13	Total/NA	Water	300.0	
180-113329-6	APMW-14	Total/NA	Water	300.0	
180-113329-6	APMW-14	Total/NA	Water	300.0	
180-113329-7	APMW-15	Total/NA	Water	300.0	
180-113329-7	APMW-15	Total/NA	Water	300.0	
180-113329-8	APMW-16	Total/NA	Water	300.0	
180-113329-8	APMW-16	Total/NA	Water	300.0	
180-113329-9	DUP-01	Total/NA	Water	300.0	
180-113329-9	DUP-01	Total/NA	Water	300.0	
180-113329-10	DUP-02	Total/NA	Water	300.0	
180-113329-10	DUP-02	Total/NA	Water	300.0	
180-113329-11	DUP-03	Total/NA	Water	300.0	
180-113329-11	DUP-03	Total/NA	Water	300.0	
180-113329-12	FB-01	Total/NA	Water	300.0	
180-113329-13	EB-01	Total/NA	Water	300.0	
MB 180-337205/6	Method Blank	Total/NA	Water	300.0	
LCS 180-337205/5	Lab Control Sample	Total/NA	Water	300.0	
180-113329-3 MS	APMW-2D	Total/NA	Water	300.0	
180-113329-3 MSD	APMW-2D	Total/NA	Water	300.0	

Analysis Batch: 337326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113329-4	APMW-3	Total/NA	Water	300.0	
180-113329-4	APMW-3	Total/NA	Water	300.0	
MB 180-337326/53	Method Blank	Total/NA	Water	300.0	
LCS 180-337326/52	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 337962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113329-1	APMW-1R	Total Recoverable	Water	3005A	
180-113329-2	APMW-2	Total Recoverable	Water	3005A	
180-113329-3	APMW-2D	Total Recoverable	Water	3005A	
180-113329-4	APMW-3	Total Recoverable	Water	3005A	
180-113329-5	APMW-13	Total Recoverable	Water	3005A	
180-113329-6	APMW-14	Total Recoverable	Water	3005A	
180-113329-7	APMW-15	Total Recoverable	Water	3005A	
180-113329-8	APMW-16	Total Recoverable	Water	3005A	
180-113329-9	DUP-01	Total Recoverable	Water	3005A	
180-113329-10	DUP-02	Total Recoverable	Water	3005A	
180-113329-11	DUP-03	Total Recoverable	Water	3005A	
180-113329-12	FB-01	Total Recoverable	Water	3005A	
180-113329-13	EB-01	Total Recoverable	Water	3005A	
MB 180-337962/1-A	Method Blank	Total Recoverable	Water	3005A	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Metals (Continued)

Prep Batch: 337962 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-337962/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-113329-8 MS	APMW-16	Total Recoverable	Water	3005A	
180-113329-8 MSD	APMW-16	Total Recoverable	Water	3005A	

Analysis Batch: 338293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113329-1	APMW-1R	Total Recoverable	Water	EPA 6020B	337962
180-113329-2	APMW-2	Total Recoverable	Water	EPA 6020B	337962
180-113329-3	APMW-2D	Total Recoverable	Water	EPA 6020B	337962
180-113329-4	APMW-3	Total Recoverable	Water	EPA 6020B	337962
180-113329-5	APMW-13	Total Recoverable	Water	EPA 6020B	337962
180-113329-6	APMW-14	Total Recoverable	Water	EPA 6020B	337962
180-113329-7	APMW-15	Total Recoverable	Water	EPA 6020B	337962
180-113329-8	APMW-16	Total Recoverable	Water	EPA 6020B	337962
180-113329-9	DUP-01	Total Recoverable	Water	EPA 6020B	337962
180-113329-10	DUP-02	Total Recoverable	Water	EPA 6020B	337962
180-113329-11	DUP-03	Total Recoverable	Water	EPA 6020B	337962
180-113329-12	FB-01	Total Recoverable	Water	EPA 6020B	337962
180-113329-13	EB-01	Total Recoverable	Water	EPA 6020B	337962
MB 180-337962/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	337962
LCS 180-337962/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	337962
180-113329-8 MS	APMW-16	Total Recoverable	Water	EPA 6020B	337962
180-113329-8 MSD	APMW-16	Total Recoverable	Water	EPA 6020B	337962

Prep Batch: 510232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113329-1	APMW-1R	Total/NA	Water	7470A	
180-113329-2	APMW-2	Total/NA	Water	7470A	
180-113329-3	APMW-2D	Total/NA	Water	7470A	
180-113329-4	APMW-3	Total/NA	Water	7470A	
180-113329-5	APMW-13	Total/NA	Water	7470A	
180-113329-6	APMW-14	Total/NA	Water	7470A	
180-113329-7	APMW-15	Total/NA	Water	7470A	
180-113329-8	APMW-16	Total/NA	Water	7470A	
180-113329-9	DUP-01	Total/NA	Water	7470A	
180-113329-10	DUP-02	Total/NA	Water	7470A	
180-113329-11	DUP-03	Total/NA	Water	7470A	
180-113329-12	FB-01	Total/NA	Water	7470A	
180-113329-13	EB-01	Total/NA	Water	7470A	
MB 400-510232/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-510232/15-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 510698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113329-1	APMW-1R	Total/NA	Water	7470A	510232
180-113329-2	APMW-2	Total/NA	Water	7470A	510232
180-113329-3	APMW-2D	Total/NA	Water	7470A	510232
180-113329-4	APMW-3	Total/NA	Water	7470A	510232
180-113329-5	APMW-13	Total/NA	Water	7470A	510232
180-113329-6	APMW-14	Total/NA	Water	7470A	510232
180-113329-7	APMW-15	Total/NA	Water	7470A	510232

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-1

Metals (Continued)

Analysis Batch: 510698 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113329-8	APMW-16	Total/NA	Water	7470A	510232
180-113329-9	DUP-01	Total/NA	Water	7470A	510232
180-113329-10	DUP-02	Total/NA	Water	7470A	510232
180-113329-11	DUP-03	Total/NA	Water	7470A	510232
180-113329-12	FB-01	Total/NA	Water	7470A	510232
180-113329-13	EB-01	Total/NA	Water	7470A	510232
MB 400-510232/14-A	Method Blank	Total/NA	Water	7470A	510232
LCS 400-510232/15-A	Lab Control Sample	Total/NA	Water	7470A	510232

General Chemistry

Analysis Batch: 336449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113329-7	APMW-15	Total/NA	Water	SM 2540C	
180-113329-9	DUP-01	Total/NA	Water	SM 2540C	
180-113329-13	EB-01	Total/NA	Water	SM 2540C	
MB 180-336449/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-336449/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 336612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113329-1	APMW-1R	Total/NA	Water	SM 2540C	
180-113329-5	APMW-13	Total/NA	Water	SM 2540C	
180-113329-6	APMW-14	Total/NA	Water	SM 2540C	
180-113329-8	APMW-16	Total/NA	Water	SM 2540C	
180-113329-10	DUP-02	Total/NA	Water	SM 2540C	
180-113329-12	FB-01	Total/NA	Water	SM 2540C	
MB 180-336612/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-336612/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 336974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113329-2	APMW-2	Total/NA	Water	SM 2540C	
180-113329-3	APMW-2D	Total/NA	Water	SM 2540C	
180-113329-4	APMW-3	Total/NA	Water	SM 2540C	
180-113329-11	DUP-03	Total/NA	Water	SM 2540C	
MB 180-336974/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-336974/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Chain of Custody Record

Client Information		Sampler: <u>Philip Evans</u>		Lab PM: <u>Brown, Shail</u>	Carrier Tracking No(s):		COC No:
Client Contact: SCS Contacts		Phone: <u>850-336-0192</u>		E-Mail: <u>shail.brown@eurofinset.com</u>			Page: <u>1 of 2</u>
Company: SCS						Job #:	
Address: <u>3535 Colonnade Pkwy Bln S 530 EC</u>		Due Date Requested:		Analysis Requested		Total Number of Containers	
City: <u>Birmingham</u>		TAT Requested (days):					
State, Zip: <u>AL, 35243</u>		PO #:		Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)	
Phone: <u>205-992-6283</u>		WO #:					
Email: SCS Contacts		Project #:		Appendix I Appendix II Appendix III Appendix IV		Special Instructions/Note:	
Plant Name: <u>Plant Watson</u>		18020186					
Site:		SSOW#:					
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:		
<u>APMW-1R</u>	<u>11/4/20</u>	<u>1505</u>	<u>G</u>	<u>W</u>	<u>W</u>	<u>X</u>	<u>X</u>
<u>APMW-2</u>	<u>11/5/20</u>	<u>1045</u>	<u>G</u>	<u>W</u>	<u>W</u>	<u>X</u>	<u>X</u>
<u>APMW-2D</u>	<u>11/5/20</u>	<u>1000</u>	<u>G</u>	<u>W</u>	<u>W</u>	<u>X</u>	<u>X</u>
<u>APMW-3</u>	<u>11/5/20</u>	<u>1200</u>	<u>G</u>	<u>W</u>	<u>W</u>	<u>X</u>	<u>X</u>
<u>APMW-13</u>	<u>11/4/20</u>	<u>0950</u>	<u>G</u>	<u>W</u>	<u>W</u>	<u>X</u>	<u>X</u>
<u>APMW-14</u>	<u>11/4/20</u>	<u>1130</u>	<u>G</u>	<u>W</u>	<u>W</u>	<u>X</u>	<u>X</u>
<u>APMW-15</u>	<u>11/3/20</u>	<u>1440</u>	<u>G</u>	<u>W</u>	<u>W</u>	<u>X</u>	<u>X</u>
<u>APMW-16</u>	<u>11/4/20</u>	<u>0830</u>	<u>G</u>	<u>W</u>	<u>W</u>	<u>X</u>	<u>X</u>
<u>DUP-01</u>	<u>11/3/20</u>	<u>1340</u>	<u>G</u>	<u>W</u>	<u>W</u>	<u>X</u>	<u>X</u>
<u>DUP-02</u>	<u>11/4/20</u>	<u>0730</u>	<u>G</u>	<u>W</u>	<u>W</u>	<u>X</u>	<u>X</u>
<u>DUP-03</u>	<u>11/5/20</u>	<u>0945</u>	<u>G</u>	<u>W</u>	<u>W</u>	<u>X</u>	<u>X</u>
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:		Method of Shipment:		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>11/5/20 1300</u>		Received by: <u>[Signature]</u>		Date/Time: <u>11-6-20 9:00</u>	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			



Chain of Custody Record



Client Information Client Contact: SCS Contacts Company: SCS Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: SCS Contacts Project Name: Plant Watson Site:		Sampler: Philip Evans Lab PM: Brown, Shali Phone: 850-336-0192 E-Mail: shali.brown@eurofinset.com		Carrier Tracking No(s): COC No: Page: 2 of 2 Job #:							
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SSOW#:		Analysis Requested									
Sample Identification FB-01 EB-01		Sample Date 11/4/20 11/3/20	Sample Time 1510 1555	Sample Type (C=comp, G=grab) G G	Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air) W W	Preservation Code: W W	Field Filtered Sample (Yes or No) X X	Perform MS/MSD (Yes or No) X X	Appendix III Appendix IV	Total Number of containers X X	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
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:		Method of Shipment:							
Relinquished by:		Date/Time: 11/5/20 1300		Received by: <i>Nydhru Watson</i>							
Relinquished by:		Date/Time:		Received by:							
Relinquished by:		Date/Time:		Received by:							
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							



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

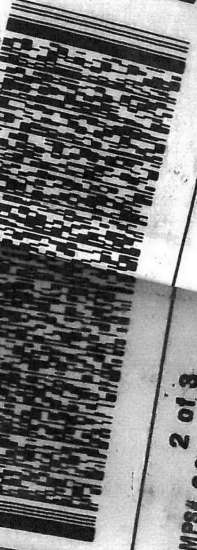
ORIGIN ID: B1
RDH ENVIRONM

301 ALPHA DR
PITTSBURGH,
UNITED STATES

TO TEST A
TEST A
301 AL

SHIP DATE: 06NOV20
ACT WGT: 169.00 LB
CRD#: 6993798786722121
DIMs: 24x14x14 IN
BILL THIRD PARTY

Part # 150297935 MADE IN USA 10/21

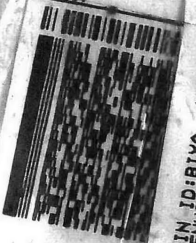


FRI - 06 NOV 10:30A
PRIORITY OVERNIGHT

R1 97
10:30
5087
11.06
A

Uncorrected
Thermometer ID
CF 0 Initials B
PT-WI-SR-001 effective 7/26/13

PITTSB
(412) 963-8222



ORIGIN ID: B1X6 (850) 336-0182
RDH ENVIRONMENTAL
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US
TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 238
(412) 963-8222

DEPT

2 of 3
MPS# 0263 3986 0586 5998
Metr# 3986 0586 5976

XH AGCA

Uncorrected
Thermometer ID
CF 0 Initials B
PT-WI-SR-001 effective 7/26/13

3 of 3
MPS# 0263 3986 0586 5998
Metr# 3986 0586 5976

XH AGCA

Uncorrected temp 34 °C
Thermometer ID 14

CF 0 Initials B

T-WI-SR-001 effective 7/26/13



FRI - 06 NOV 10:30A
PRIORITY OVERNIGHT

15238
PA-US PIT

1 of 3
MPS# 0263 3986 0586 5976
MASTER

XH AGCA

Uncorrected temp 34 °C
Thermometer ID 14

CF 0 Initials B

PT-WI-SR-001 effective 7/26/13



FRI - 06 NOV 10:30A
PRIORITY OVERNIGHT

PA-US



180-113329 Waybill

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PW:	Carrier Tracking No(s):	COC No:								
Client Contact:		Brown, Shali	Brown, Shali		180-418146.1								
Shipping/Receiving		E-Mail:	E-Mail:	State of Origin:	Page:								
Company:		TestAmerica Laboratories, Inc.	Shali.Brown@Eurofinset.com	Georgia	Page 1 of 2								
Address:		13715 Ridler Trail North,		Accreditations Required (See note):	Job #:								
City:		Earth City			180-113329-1								
State, Zip:		MO., 63045		Analysis Requested:									
Phone:		314-298-8566(Tel) 314-298-8757(Fax)			A - HCL B - NaOH M - Hexane N - None O - AsNaO2 P - Na2O4S Q - NaHSO4 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - PCAA W - pH 4-5 X - EDTA L - EDA Z - other (specify) Other:								
Email:													
Project Name:		CCR - Plant Watson											
Site:													
Due Date Requested:		11/18/2020											
TAT Requested (days):													
PO #:													
IWO #:													
Project #:		18020186											
SSOW#:													
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=other)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/Precep_21 Standard Target List	9320_Ra226/Precep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Notes:
APMW-1R (180-113329-1)	11/4/20	15:05 Eastern	Water				X	X	X	X		2	
APMW-2 (180-113329-2)	11/5/20	10:45 Eastern	Water				X	X	X	X		2	
APMW-2D (180-113329-3)	11/5/20	10:00 Eastern	Water				X	X	X	X		2	
APMW-3 (180-113329-4)	11/5/20	12:00 Eastern	Water				X	X	X	X		2	
APMW-13 (180-113329-5)	11/4/20	09:50 Eastern	Water				X	X	X	X		2	
APMW-14 (180-113329-6)	11/4/20	11:30 Eastern	Water				X	X	X	X		2	
APMW-15 (180-113329-7)	11/3/20	14:40 Eastern	Water				X	X	X	X		2	
APMW-16 (180-113329-8)	11/4/20	08:30 Eastern	Water				X	X	X	X		2	
DUP-01 (180-113329-9)	11/3/20	13:40 Eastern	Water				X	X	X	X		2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification

Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 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: *Fed Ex* Date/Time: *11/9/20 17:00* Company: *ETF*
 Received by: *Wally Dean* Date/Time: *09:15 11/10/20* Company: *ETA-STL*
 Received by: _____ Date/Time: _____ Company: _____
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-418154.1
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@Eurofinset.com	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):	Job #: 180-113329-1
Address: 3355 McLemore Drive, Pensacola FL, 32514		Analysis Requested	
Phone: 850-474-1001(Tel) 850-478-2671(Fax)		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SD3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - EDTA L - EDA Z - other (specify)	
Email:		Other:	
Project Name: CCR - Plant Watson		Total Number of Containers	
Site: 18020186		Special Instructions/Note:	
SSOW#:			
Due Date Requested: 11/18/2020			
TAT Requested (days):			
PO #:			
WO #:			
Field Filtered Sample (Yes or No)			
Perform MS/MSD (Yes or No)			
60203005A (MOD)			
SbAsBa,BeCd,Cr,Co,CuPbNi,Se,Ag,Tl,V			
7470A/7470A Prep			
Matrix (Water, Groundwater, Other)			
Sample Type (C=comp, G=grab)			
Sample Time			
Sample Date			
Sample Identification - Client ID (Lab ID)			
APMW-1R (180-113329-1)	11/4/20 15:05 Eastern	Water	1
APMW-2 (180-113329-2)	11/5/20 10:45 Eastern	Water	1
APMW-2D (180-113329-3)	11/5/20 10:00 Eastern	Water	1
APMW-3 (180-113329-4)	11/5/20 12:00 Eastern	Water	1
APMW-13 (180-113329-5)	11/4/20 09:50 Eastern	Water	1
APMW-14 (180-113329-6)	11/4/20 11:30 Eastern	Water	1
APMW-15 (180-113329-7)	11/3/20 14:40 Eastern	Water	1
APMW-16 (180-113329-8)	11/4/20 08:30 Eastern	Water	1
DUP-01 (180-113329-9)	11/3/20 13:40 Eastern	Water	1

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2
 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

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: 11/19/20 14:45 Eastern
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____

Company: _____
 Received by: Shalida _____ Date/Time: 11-10-20 0950
 Company: TAPPEN
 Received by: _____ Date/Time: _____
 Company: _____
 Received by: _____ Date/Time: _____
 Company: _____
 Cooler Temperature(s) °C and Other Remarks: 1.9°C, 1.2°C, 1.2°C



Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler: Lab PM: Brown, Shail		Carrier Tracking No(s):		COC No: 180-418154.2	
Shipping/Receiving		Phone: E-Mail: Shail.Brown@Eurofins.com		State of Origin: Georgia		Page: Page 2 of 2	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 180-113329-1		Preservation Codes:	
Address: 3355 McLemore Drive, Pensacola, FL, 32514		Due Date Requested: 11/18/2020		Analysis Requested		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: Pensacola		TAT Requested (days):		Perform MS/MSD (Yes or No)		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)	
State, Zip: FL, 32514		PO #:		Field Filtered Sample (Yes or No)		Total Number of Containers	
Phone: 850-474-1001(Tel) 850-478-2671(Fax)		WO #:		7470M/7470A_Prep		Special Instructions/Note:	
Email:		Project #: 18020186		SbaBa,BeCd,Cr,Co,CuPbNi,Se,AgTlV			
Project Name: CCR - Plant Watson		SSOW#:		60203005A (MOD)			
Site:		Sample Date		Preservation Code			
Sample Identification - Client ID (Lab ID)		Sample Time		Matrix (Water, Seawater, Over-sat, etc.)			
DUP-02 (180-113329-10)		11/4/20		Water		1	
DUP-03 (180-113329-11)		11/5/20		Water		1	
FB-01 (180-113329-12)		11/4/20		Water		1	
EB-01 (180-113329-13)		11/3/20		Water		1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 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: _____ Date: _____ Method of Shipment: _____
 Relinquished by: _____ Date/Time: 11/9/20 17:00 Company: _____
 Relinquished by: _____ Date/Time: 11-10-20 08:50 Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks: _____



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-113329-1

Login Number: 113329

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-113329-1

Login Number: 113329

List Number: 2

Creator: Gore, Beija K

List Source: Eurofins TestAmerica, Pensacola

List Creation: 11/10/20 12:16 PM

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	1.2 °C, 1.4 °C IR 9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-113329-2
Client Project/Site: Plant Watson AP

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
1/12/2021 4:44:05 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Job ID: 180-113329-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-113329-2

Comments

No additional comments.

Receipt

The samples were received on 11/6/2020 9:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.9° C, 2.4° C and 3.4° C.

RAD

Method 9315: 9315 Prep Batch 488997

The following sample has a barium carrier recovery above the 110% QC limit; Affected samples had a barium correction applied, however, there is significant concentrations of salt-like compounds (i.e. calcium, magnesium, sodium, and strontium) that can interfere with a barium sulfate recovery. The LCS (laboratory control sample) has an acceptable spike recovery demonstrating acceptable sample preparation and instrument performance. The samples have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported. APMW-1R (180-113329-1) and DUP-03 (180-113329-11)

Method 9315: 9315 Prep Batch 160-488997

The following sample(s) have Barium carrier recoveries above the 110% QC limit; The sample is a field blank therefore there is no matrix affect. The sample met the detection goal and was ND indicating no adverse affect from the carrier discrepancy. Additionally the LCS/LCSD (laboratory control sample/laboratory control sample duplicate) have acceptable spike recoveries demonstrating acceptable sample preparation and instrument performance. The sample(s) have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been reported with this narrative. FB-01 (180-113329-12)

Method 9315: 9315 prep batch 488997

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-1R (180-113329-1), APMW-2 (180-113329-2), APMW-2D (180-113329-3), APMW-3 (180-113329-4), APMW-13 (180-113329-5), APMW-14 (180-113329-6), APMW-15 (180-113329-7), APMW-16 (180-113329-8), DUP-01 (180-113329-9), DUP-02 (180-113329-10), DUP-03 (180-113329-11), FB-01 (180-113329-12), EB-01 (180-113329-13), (LCS 160-488997/1-A), (LCSD 160-488997/2-A) and (MB 160-488997/21-A)

Method 9320: 9320 160-488998

The LCS recovered at (71%) for (Ra228). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (58-151%) per method requirements. Although there is a qualifier, the LCS passes. No further action is required (LCS 160-488998/1-A)

Method 9320: Radium-228 Prep Batch 488998

The following sample has a barium carrier recovery above the 110% QC limit; Affected samples had a barium correction applied, however, there is significant concentrations of salt-like compounds (i.e. calcium, magnesium, sodium, and strontium) that can interfere with a barium sulfate recovery. The LCS (laboratory control sample) has an acceptable spike recovery demonstrating acceptable sample preparation and instrument performance. The samples have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported. APMW-1R (180-113329-1) and DUP-03 (180-113329-11)

Method 9320: 9320 160-488998

The following sample(s) have (Barium carrier) recoveries above the 110% QC limit; This is a discrepancy that is not related to matrix due to the sample being a field blank. The LCS/LCSD (laboratory control sample/laboratory control sample duplicate) have acceptable spike recoveries demonstrating acceptable sample preparation and instrument performance. The sample achieved the detection goal and was ND as would be excepted from a field or equipment blank indicating no adverse affect from the discrepancy. The sample(s) have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been reported with this narrative. FB-01 (180-113329-12)

Method 9320: 9320 160-488998 and 160-488998

Case Narrative

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Job ID: 180-113329-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-1R (180-113329-1), APMW-2 (180-113329-2), APMW-2D (180-113329-3), APMW-3 (180-113329-4), APMW-13 (180-113329-5), APMW-14 (180-113329-6), APMW-15 (180-113329-7), APMW-16 (180-113329-8), DUP-01 (180-113329-9), DUP-02 (180-113329-10), DUP-03 (180-113329-11), FB-01 (180-113329-12), EB-01 (180-113329-13), (LCS 160-488998/1-A), (LCSD 160-488998/2-A) and (MB 160-488998/21-A)

Method PrecSep_0: Radium 228 Prep Batch 488998:

The following samples contained a slight yellow appearance: APMW-1R (180-113329-1), APMW-3 (180-113329-4), APMW-13 (180-113329-5), APMW-15 (180-113329-7), APMW-16 (180-113329-8), DUP-01 (180-113329-9) and DUP-02 (180-113329-10).

Method PrecSep_0: Radium 228 Prep Batch 160-488998:

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-1R (180-113329-1), APMW-2 (180-113329-2), APMW-2D (180-113329-3), APMW-3 (180-113329-4), APMW-13 (180-113329-5), APMW-14 (180-113329-6), APMW-15 (180-113329-7), APMW-16 (180-113329-8), DUP-01 (180-113329-9), DUP-02 (180-113329-10), DUP-03 (180-113329-11), FB-01 (180-113329-12) and EB-01 (180-113329-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch: 160-488998

The Barium carrier recovery is outside the upper control limit (110%) for the following samples: APMW-1R (180-113329-1), APMW-2 (180-113329-2) and DUP-03 (180-113329-11). Samples appear grey in color and are weighing over the 110% recovery threshold.

Method PrecSep-21: Radium 226 Prep Batch 160-488997:

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-1R (180-113329-1), APMW-2 (180-113329-2), APMW-2D (180-113329-3), APMW-3 (180-113329-4), APMW-13 (180-113329-5), APMW-14 (180-113329-6), APMW-15 (180-113329-7), APMW-16 (180-113329-8), DUP-01 (180-113329-9), DUP-02 (180-113329-10), DUP-03 (180-113329-11), FB-01 (180-113329-12) and EB-01 (180-113329-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-488997:

The following samples contained a slight yellow discoloration: APMW-1R (180-113329-1), APMW-3 (180-113329-4), APMW-13 (180-113329-5), APMW-15 (180-113329-7), APMW-16 (180-113329-8), DUP-01 (180-113329-9) and DUP-02 (180-113329-10).

Method PrecSep-21: Radium 226 Prep Batch: 160-488997

The Barium carrier recovery is outside the upper control limit (110%) for the following samples: APMW-1R (180-113329-1), APMW-2 (180-113329-2) and DUP-03 (180-113329-11). Samples appear grey in color and are weighing over the 110% recovery threshold.

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

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Qualifiers

Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Result is less than the sample detection limit.
X	Carrier 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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Watson AP

Job ID: 180-113329-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-21
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	12-31-20 *
Louisiana	NELAP	04080	06-30-21
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-21
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-21

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-113329-1	APMW-1R	Water	11/04/20 15:05	11/06/20 09:00	
180-113329-2	APMW-2	Water	11/05/20 10:45	11/06/20 09:00	
180-113329-3	APMW-2D	Water	11/05/20 10:00	11/06/20 09:00	
180-113329-4	APMW-3	Water	11/05/20 12:00	11/06/20 09:00	
180-113329-5	APMW-13	Water	11/04/20 09:50	11/06/20 09:00	
180-113329-6	APMW-14	Water	11/04/20 11:30	11/06/20 09:00	
180-113329-7	APMW-15	Water	11/03/20 14:40	11/06/20 09:00	
180-113329-8	APMW-16	Water	11/04/20 08:30	11/06/20 09:00	
180-113329-9	DUP-01	Water	11/03/20 13:40	11/06/20 09:00	
180-113329-10	DUP-02	Water	11/04/20 07:30	11/06/20 09:00	
180-113329-11	DUP-03	Water	11/05/20 09:45	11/06/20 09:00	
180-113329-12	FB-01	Water	11/04/20 15:10	11/06/20 09:00	
180-113329-13	EB-01	Water	11/03/20 11:55	11/06/20 09:00	

Method Summary

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

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
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Client Sample ID: APMW-1R

Lab Sample ID: 180-113329-1

Date Collected: 11/04/20 15:05

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.81 mL	1.0 g	488997	11/13/20 08:22	AVB	TAL SL
Total/NA	Analysis	9315		1			494260	01/07/21 20:47	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.81 mL	1.0 g	488998	11/13/20 08:38	AVB	TAL SL
Total/NA	Analysis	9320		1			494259	01/07/21 09:09	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			494677	01/12/21 09:34	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2

Lab Sample ID: 180-113329-2

Date Collected: 11/05/20 10:45

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.32 mL	1.0 g	488997	11/13/20 08:22	AVB	TAL SL
Total/NA	Analysis	9315		1			494260	01/07/21 20:48	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.32 mL	1.0 g	488998	11/13/20 08:38	AVB	TAL SL
Total/NA	Analysis	9320		1			494259	01/07/21 09:10	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			494677	01/12/21 09:34	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2D

Lab Sample ID: 180-113329-3

Date Collected: 11/05/20 10:00

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.29 mL	1.0 g	488997	11/13/20 08:22	AVB	TAL SL
Total/NA	Analysis	9315		1			494394	01/08/21 07:00	TMS	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.29 mL	1.0 g	488998	11/13/20 08:38	AVB	TAL SL
Total/NA	Analysis	9320		1			494259	01/07/21 09:09	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			494677	01/12/21 09:34	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3

Lab Sample ID: 180-113329-4

Date Collected: 11/05/20 12:00

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.39 mL	1.0 g	488997	11/13/20 08:22	AVB	TAL SL
Total/NA	Analysis	9315		1			494394	01/08/21 07:00	TMS	TAL SL
Instrument ID: GFPCRED										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Client Sample ID: APMW-3

Lab Sample ID: 180-113329-4

Date Collected: 11/05/20 12:00

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.39 mL	1.0 g	488998	11/13/20 08:38	AVB	TAL SL
Total/NA	Analysis	9320		1			494259	01/07/21 09:10	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			494677	01/12/21 09:34	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-13

Lab Sample ID: 180-113329-5

Date Collected: 11/04/20 09:50

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.11 mL	1.0 g	488997	11/13/20 08:22	AVB	TAL SL
Total/NA	Analysis	9315		1			494394	01/08/21 07:00	TMS	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.11 mL	1.0 g	488998	11/13/20 08:38	AVB	TAL SL
Total/NA	Analysis	9320		1			494259	01/07/21 09:10	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			494677	01/12/21 09:34	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-14

Lab Sample ID: 180-113329-6

Date Collected: 11/04/20 11:30

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.95 mL	1.0 g	488997	11/13/20 08:22	AVB	TAL SL
Total/NA	Analysis	9315		1			494394	01/08/21 07:00	TMS	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.95 mL	1.0 g	488998	11/13/20 08:38	AVB	TAL SL
Total/NA	Analysis	9320		1			494259	01/07/21 09:10	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			494677	01/12/21 09:34	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-15

Lab Sample ID: 180-113329-7

Date Collected: 11/03/20 14:40

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.37 mL	1.0 g	488997	11/13/20 08:22	AVB	TAL SL
Total/NA	Analysis	9315		1			494394	01/08/21 07:00	TMS	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.37 mL	1.0 g	488998	11/13/20 08:38	AVB	TAL SL
Total/NA	Analysis	9320		1			494259	01/07/21 09:10	FLC	TAL SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Client Sample ID: APMW-15

Lab Sample ID: 180-113329-7

Date Collected: 11/03/20 14:40

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			494677	01/12/21 09:34	SCB	TAL SL

Client Sample ID: APMW-16

Lab Sample ID: 180-113329-8

Date Collected: 11/04/20 08:30

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.56 mL	1.0 g	488997	11/13/20 08:22	AVB	TAL SL
Total/NA	Analysis	9315		1			494394	01/08/21 07:00	TMS	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.56 mL	1.0 g	488998	11/13/20 08:38	AVB	TAL SL
Total/NA	Analysis	9320		1			494259	01/07/21 09:10	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			494677	01/12/21 09:34	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Lab Sample ID: 180-113329-9

Date Collected: 11/03/20 13:40

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.81 mL	1.0 g	488997	11/13/20 08:22	AVB	TAL SL
Total/NA	Analysis	9315		1			494394	01/08/21 07:01	TMS	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.81 mL	1.0 g	488998	11/13/20 08:38	AVB	TAL SL
Total/NA	Analysis	9320		1			494259	01/07/21 09:10	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			494677	01/12/21 09:34	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02

Lab Sample ID: 180-113329-10

Date Collected: 11/04/20 07:30

Matrix: Water

Date Received: 11/06/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.17 mL	1.0 g	488997	11/13/20 08:22	AVB	TAL SL
Total/NA	Analysis	9315		1			494394	01/08/21 07:01	TMS	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.17 mL	1.0 g	488998	11/13/20 08:38	AVB	TAL SL
Total/NA	Analysis	9320		1			494260	01/07/21 09:12	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			494677	01/12/21 09:34	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Client Sample ID: DUP-03
Date Collected: 11/05/20 09:45
Date Received: 11/06/20 09:00

Lab Sample ID: 180-113329-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.44 mL	1.0 g	488997	11/13/20 08:22	AVB	TAL SL
Total/NA	Analysis	9315		1			494394	01/08/21 07:02	TMS	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.44 mL	1.0 g	488998	11/13/20 08:38	AVB	TAL SL
Total/NA	Analysis	9320		1			494260	01/07/21 09:12	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			494677	01/12/21 09:34	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-01
Date Collected: 11/04/20 15:10
Date Received: 11/06/20 09:00

Lab Sample ID: 180-113329-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.13 mL	1.0 g	488997	11/13/20 08:22	AVB	TAL SL
Total/NA	Analysis	9315		1			494394	01/08/21 14:39	TMS	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.13 mL	1.0 g	488998	11/13/20 08:38	AVB	TAL SL
Total/NA	Analysis	9320		1			494260	01/07/21 09:12	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			494677	01/12/21 09:34	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-01
Date Collected: 11/03/20 11:55
Date Received: 11/06/20 09:00

Lab Sample ID: 180-113329-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.82 mL	1.0 g	488997	11/13/20 08:22	AVB	TAL SL
Total/NA	Analysis	9315		1			494394	01/08/21 14:40	TMS	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.82 mL	1.0 g	488998	11/13/20 08:38	AVB	TAL SL
Total/NA	Analysis	9320		1			494260	01/07/21 09:12	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			494677	01/12/21 09:34	SCB	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Analyst References:

Lab: TAL SL

Batch Type: Prep

AVB = Amber Bleem

Batch Type: Analysis

FLC = Fernando Cruz

SCB = Sarah Bernsen

TMS = Tayla Schultz

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Client Sample ID: APMW-1R

Lab Sample ID: 180-113329-1

Date Collected: 11/04/20 15:05

Matrix: Water

Date Received: 11/06/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	5.64		0.691	0.857	1.00	0.347	pCi/L	11/13/20 08:22	01/07/21 20:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	116	X	40 - 110					11/13/20 08:22	01/07/21 20:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.35	*	0.326	0.448	1.00	0.243	pCi/L	11/13/20 08:38	01/07/21 09:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	116	X	40 - 110					11/13/20 08:38	01/07/21 09:09	1
Y Carrier	107		40 - 110					11/13/20 08:38	01/07/21 09:09	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	8.99		0.764	0.967	5.00	0.347	pCi/L		01/12/21 09:34	1

Client Sample ID: APMW-2

Lab Sample ID: 180-113329-2

Date Collected: 11/05/20 10:45

Matrix: Water

Date Received: 11/06/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	10.9		0.911	1.34	1.00	0.344	pCi/L	11/13/20 08:22	01/07/21 20:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					11/13/20 08:22	01/07/21 20:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.46	*	0.385	0.563	1.00	0.279	pCi/L	11/13/20 08:38	01/07/21 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					11/13/20 08:38	01/07/21 09:10	1
Y Carrier	105		40 - 110					11/13/20 08:38	01/07/21 09:10	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Client Sample ID: APMW-2

Lab Sample ID: 180-113329-2

Date Collected: 11/05/20 10:45

Matrix: Water

Date Received: 11/06/20 09:00

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	15.3		0.989	1.45	5.00	0.344	pCi/L		01/12/21 09:34	1

Client Sample ID: APMW-2D

Lab Sample ID: 180-113329-3

Date Collected: 11/05/20 10:00

Matrix: Water

Date Received: 11/06/20 09:00

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	0.124	0.125	1.00	0.186	pCi/L	11/13/20 08:22	01/08/21 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110					11/13/20 08:22	01/08/21 07:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0207	U *	0.151	0.151	1.00	0.268	pCi/L	11/13/20 08:38	01/07/21 09:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110					11/13/20 08:38	01/07/21 09:09	1
Y Carrier	99.1		40 - 110					11/13/20 08:38	01/07/21 09:09	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	0.195	0.196	5.00	0.268	pCi/L		01/12/21 09:34	1

Client Sample ID: APMW-3

Lab Sample ID: 180-113329-4

Date Collected: 11/05/20 12:00

Matrix: Water

Date Received: 11/06/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.692		0.230	0.238	1.00	0.209	pCi/L	11/13/20 08:22	01/08/21 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					11/13/20 08:22	01/08/21 07:00	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Client Sample ID: APMW-3

Lab Sample ID: 180-113329-4

Date Collected: 11/05/20 12:00

Matrix: Water

Date Received: 11/06/20 09:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.64	*	0.431	0.606	1.00	0.312	pCi/L	11/13/20 08:38	01/07/21 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					11/13/20 08:38	01/07/21 09:10	1
Y Carrier	104		40 - 110					11/13/20 08:38	01/07/21 09:10	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	5.33		0.489	0.651	5.00	0.312	pCi/L		01/12/21 09:34	1

Client Sample ID: APMW-13

Lab Sample ID: 180-113329-5

Date Collected: 11/04/20 09:50

Matrix: Water

Date Received: 11/06/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.631		0.239	0.246	1.00	0.244	pCi/L	11/13/20 08:22	01/08/21 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					11/13/20 08:22	01/08/21 07:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.962	*	0.267	0.281	1.00	0.337	pCi/L	11/13/20 08:38	01/07/21 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					11/13/20 08:38	01/07/21 09:10	1
Y Carrier	105		40 - 110					11/13/20 08:38	01/07/21 09:10	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	1.59		0.358	0.373	5.00	0.337	pCi/L		01/12/21 09:34	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Client Sample ID: APMW-14

Lab Sample ID: 180-113329-6

Date Collected: 11/04/20 11:30

Matrix: Water

Date Received: 11/06/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.73		0.338	0.372	1.00	0.202	pCi/L	11/13/20 08:22	01/08/21 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					11/13/20 08:22	01/08/21 07:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.06	*	0.321	0.373	1.00	0.325	pCi/L	11/13/20 08:38	01/07/21 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					11/13/20 08:38	01/07/21 09:10	1
Y Carrier	98.7		40 - 110					11/13/20 08:38	01/07/21 09:10	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	3.79		0.466	0.527	5.00	0.325	pCi/L		01/12/21 09:34	1

Client Sample ID: APMW-15

Lab Sample ID: 180-113329-7

Date Collected: 11/03/20 14:40

Matrix: Water

Date Received: 11/06/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.863		0.260	0.271	1.00	0.255	pCi/L	11/13/20 08:22	01/08/21 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					11/13/20 08:22	01/08/21 07:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.531	*	0.208	0.214	1.00	0.293	pCi/L	11/13/20 08:38	01/07/21 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					11/13/20 08:38	01/07/21 09:10	1
Y Carrier	104		40 - 110					11/13/20 08:38	01/07/21 09:10	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Client Sample ID: APMW-15

Lab Sample ID: 180-113329-7

Date Collected: 11/03/20 14:40

Matrix: Water

Date Received: 11/06/20 09:00

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	1.39		0.333	0.345	5.00	0.293	pCi/L		01/12/21 09:34	1

Client Sample ID: APMW-16

Lab Sample ID: 180-113329-8

Date Collected: 11/04/20 08:30

Matrix: Water

Date Received: 11/06/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.07		0.269	0.286	1.00	0.211	pCi/L	11/13/20 08:22	01/08/21 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	107		40 - 110					11/13/20 08:22	01/08/21 07:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.456	*	0.187	0.191	1.00	0.261	pCi/L	11/13/20 08:38	01/07/21 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	107		40 - 110					11/13/20 08:38	01/07/21 09:10	1
Y Carrier	104		40 - 110					11/13/20 08:38	01/07/21 09:10	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	1.53		0.328	0.344	5.00	0.261	pCi/L		01/12/21 09:34	1

Client Sample ID: DUP-01

Lab Sample ID: 180-113329-9

Date Collected: 11/03/20 13:40

Matrix: Water

Date Received: 11/06/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.547		0.208	0.213	1.00	0.207	pCi/L	11/13/20 08:22	01/08/21 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/13/20 08:22	01/08/21 07:01	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Client Sample ID: DUP-01

Lab Sample ID: 180-113329-9

Date Collected: 11/03/20 13:40

Matrix: Water

Date Received: 11/06/20 09:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.632	*	0.235	0.242	1.00	0.327	pCi/L	11/13/20 08:38	01/07/21 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/13/20 08:38	01/07/21 09:10	1
Y Carrier	99.8		40 - 110					11/13/20 08:38	01/07/21 09:10	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	1.18		0.314	0.322	5.00	0.327	pCi/L		01/12/21 09:34	1

Client Sample ID: DUP-02

Lab Sample ID: 180-113329-10

Date Collected: 11/04/20 07:30

Matrix: Water

Date Received: 11/06/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.681		0.259	0.266	1.00	0.292	pCi/L	11/13/20 08:22	01/08/21 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					11/13/20 08:22	01/08/21 07:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.852	*	0.266	0.277	1.00	0.349	pCi/L	11/13/20 08:38	01/07/21 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					11/13/20 08:38	01/07/21 09:12	1
Y Carrier	100		40 - 110					11/13/20 08:38	01/07/21 09:12	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	1.53		0.371	0.384	5.00	0.349	pCi/L		01/12/21 09:34	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Client Sample ID: DUP-03

Lab Sample ID: 180-113329-11

Date Collected: 11/05/20 09:45

Matrix: Water

Date Received: 11/06/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	15.0		1.09	1.74	1.00	0.232	pCi/L	11/13/20 08:22	01/08/21 07:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	125	X	40 - 110					11/13/20 08:22	01/08/21 07:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.49	*	0.362	0.550	1.00	0.228	pCi/L	11/13/20 08:38	01/07/21 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	125	X	40 - 110					11/13/20 08:38	01/07/21 09:12	1
Y Carrier	98.7		40 - 110					11/13/20 08:38	01/07/21 09:12	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	19.5		1.15	1.82	5.00	0.232	pCi/L		01/12/21 09:34	1

Client Sample ID: FB-01

Lab Sample ID: 180-113329-12

Date Collected: 11/04/20 15:10

Matrix: Water

Date Received: 11/06/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0410	U	0.0681	0.0682	1.00	0.180	pCi/L	11/13/20 08:22	01/08/21 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	120	X	40 - 110					11/13/20 08:22	01/08/21 14:39	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*	0.157	0.157	1.00	0.262	pCi/L	11/13/20 08:38	01/07/21 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	120	X	40 - 110					11/13/20 08:38	01/07/21 09:12	1
Y Carrier	102		40 - 110					11/13/20 08:38	01/07/21 09:12	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Client Sample ID: FB-01
Date Collected: 11/04/20 15:10
Date Received: 11/06/20 09:00

Lab Sample ID: 180-113329-12
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	0.0698	U	0.171	0.171	5.00	0.262	pCi/L		01/12/21 09:34	1

Client Sample ID: EB-01
Date Collected: 11/03/20 11:55
Date Received: 11/06/20 09:00

Lab Sample ID: 180-113329-13
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	-0.0177	U	0.0763	0.0763	1.00	0.176	pCi/L	11/13/20 08:22	01/08/21 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/13/20 08:22	01/08/21 14:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.235	U *	0.188	0.189	1.00	0.297	pCi/L	11/13/20 08:38	01/07/21 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/13/20 08:38	01/07/21 09:12	1
Y Carrier	101		40 - 110					11/13/20 08:38	01/07/21 09:12	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	0.218	U	0.203	0.204	5.00	0.297	pCi/L		01/12/21 09:34	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-488997/21-A
Matrix: Water
Analysis Batch: 494394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488997

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01659	U	0.0967	0.0967	1.00	0.208	pCi/L	11/13/20 08:22	01/08/21 14:45	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	104		40 - 110	11/13/20 08:22	01/08/21 14:45	1				

Lab Sample ID: LCS 160-488997/1-A
Matrix: Water
Analysis Batch: 494260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488997

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.84		1.37	1.00	0.420	pCi/L	96	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed				
Ba Carrier	87.3		40 - 110	11/13/20 08:22	01/08/21 14:45	1			

Lab Sample ID: LCSD 160-488997/2-A
Matrix: Water
Analysis Batch: 494260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 488997

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	10.76		1.38	1.00	0.420	pCi/L	95	75 - 125	0.03	1
Carrier	LCSD	LCSD	Limits			Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed						
Ba Carrier	90.6		40 - 110	11/13/20 08:38	01/07/21 09:13	1					

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-488998/21-A
Matrix: Water
Analysis Batch: 494260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488998

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1622	U	0.172	0.173	1.00	0.281	pCi/L	11/13/20 08:38	01/07/21 09:13	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	104		40 - 110	11/13/20 08:38	01/07/21 09:13	1				
Y Carrier	%Yield	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
Y Carrier	109		40 - 110	11/13/20 08:38	01/07/21 09:13	1				

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

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

Lab Sample ID: LCS 160-488998/1-A
Matrix: Water
Analysis Batch: 494259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488998

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									71	75 - 125
Radium-228	7.52	5.349	*	0.687	1.00	0.340	pCi/L	71	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	87.3		40 - 110							
Y Carrier	108		40 - 110							

Lab Sample ID: LCSD 160-488998/2-A
Matrix: Water
Analysis Batch: 494259

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 488998

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	Limit
									78	75 - 125	0.39	1
Radium-228	7.52	5.898		0.731	1.00	0.343	pCi/L	78	75 - 125	0.39	1	
LCSD LCSD												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	90.6		40 - 110									
Y Carrier	108		40 - 110									

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson AP

Job ID: 180-113329-2

Rad

Prep Batch: 488997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113329-1	APMW-1R	Total/NA	Water	PrecSep-21	
180-113329-2	APMW-2	Total/NA	Water	PrecSep-21	
180-113329-3	APMW-2D	Total/NA	Water	PrecSep-21	
180-113329-4	APMW-3	Total/NA	Water	PrecSep-21	
180-113329-5	APMW-13	Total/NA	Water	PrecSep-21	
180-113329-6	APMW-14	Total/NA	Water	PrecSep-21	
180-113329-7	APMW-15	Total/NA	Water	PrecSep-21	
180-113329-8	APMW-16	Total/NA	Water	PrecSep-21	
180-113329-9	DUP-01	Total/NA	Water	PrecSep-21	
180-113329-10	DUP-02	Total/NA	Water	PrecSep-21	
180-113329-11	DUP-03	Total/NA	Water	PrecSep-21	
180-113329-12	FB-01	Total/NA	Water	PrecSep-21	
180-113329-13	EB-01	Total/NA	Water	PrecSep-21	
MB 160-488997/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-488997/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-488997/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 488998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113329-1	APMW-1R	Total/NA	Water	PrecSep_0	
180-113329-2	APMW-2	Total/NA	Water	PrecSep_0	
180-113329-3	APMW-2D	Total/NA	Water	PrecSep_0	
180-113329-4	APMW-3	Total/NA	Water	PrecSep_0	
180-113329-5	APMW-13	Total/NA	Water	PrecSep_0	
180-113329-6	APMW-14	Total/NA	Water	PrecSep_0	
180-113329-7	APMW-15	Total/NA	Water	PrecSep_0	
180-113329-8	APMW-16	Total/NA	Water	PrecSep_0	
180-113329-9	DUP-01	Total/NA	Water	PrecSep_0	
180-113329-10	DUP-02	Total/NA	Water	PrecSep_0	
180-113329-11	DUP-03	Total/NA	Water	PrecSep_0	
180-113329-12	FB-01	Total/NA	Water	PrecSep_0	
180-113329-13	EB-01	Total/NA	Water	PrecSep_0	
MB 160-488998/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-488998/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-488998/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Chain of Custody Record



Client Information Client Contact: SCS Contacts Company: SCS Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: SCS Contacts Project Name: Plant Watson Site:		Sampler: Philip Evans Lab PM: Brown, Shali Phone: 850-336-0192 E-Mail: shali.brown@eurofinset.com		Carrier Tracking No(s): COC No: Page: 2 of 2 Job #:							
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SSOW#:		Analysis Requested									
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) Preservation Code:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Total Number of Containers Special Instructions/Note:									
FB-01	11/4/20	1510	G	W	X	X	Appendix III				
EB-01	11/3/20	1555	G	W	X	X	Appendix IV				
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: Relinquished by: Relinquished by:		Date: 11/5/20 1300 Date: 11/5/20 1300 Date:		Method of Shipment: Received by: Yulduz Watson Date/Time: 11-6-20 Company: ESTALH Received by: Date/Time: 900 Company: Received by: Date/Time: Company:							
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							



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

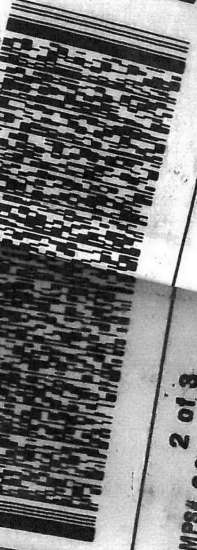
ORIGIN ID: B1
RDH ENVIRONM

301 ALPHA DR
PITTSBURGH,
UNITED STATES

TO TEST A
TEST A
301 AL

SHIP DATE: 06NOV20
ACT WGT: 169.00 LB
CRD: 699379878672121
DIM: 24x14x14 IN
BILL THIRD PARTY

Part # 150297935 MADE IN USA 10/21

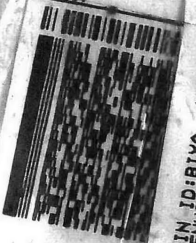


FRI - 06 NOV 10:30A
PRIORITY OVERNIGHT

R1 97
10:30
5087
11.06
A

Uncorrected
Thermometer ID
CF 0 Initials B
PT-WI-SR-001 effective 7/26/13

PITTSBURGH
(412) 963-0222



ORIGIN ID: B1X6 (850) 336-0182
RDH ENVIRONMENTAL
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US
TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 238
(412) 963-0222

MPS# 0263 3986 0586 5998
Metr# 3986 0586 5976

XH AGCA

Uncorrected temp 34 °C
Thermometer ID 14

CF 0 Initials B

T-WI-SR-001 effective 7/26/13



FRI - 06 NOV 10:30A
PRIORITY OVERNIGHT

15238
PIT PA-US

1 of 3
MPS# 0263 3986 0586 5976
Metr# 3986 0586 5976
MASTER

XH AGCA

Uncorrected temp
Thermometer ID

CF 0 Initials B
PT-WI-SR-001 effective 7/26/13



FRI - 06 NOV 10:30A
PRIORITY OVERNIGHT

PA-US



180-113329 Waybill

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-113329-2

Login Number: 113329

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-113329-2

Login Number: 113329

List Number: 3

Creator: O'Gara, Mallory L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 11/11/20 10:42 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-113329-2

Login Number: 113329

List Number: 4

Creator: O'Gara, Mallory L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 11/11/20 10:52 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-113523-1
Client Project/Site: CCR - Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
11/30/2020 3:45:54 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Job ID: 180-113523-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-113523-1**

Comments

No additional comments.

Receipt

The samples were received on 11/12/2020 9:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.4° C, 2.7° C and 3.9° C.

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: APMW-6R (180-113523-7), DUP-04 (180-113523-8), FB-02 (180-113523-9), EB-03 (180-113523-10), EB-02 (180-113523-16), APMW-12 (180-113523-18), APMW-10 (180-113523-19), APMW-10D (180-113523-20), APMW-9 (180-113523-21)

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): FB-03 (180-113523-11). The container labels list a sample collection time of 08:55, while the COC lists 09:00. The collection time on the COC was used.

GC Semi VOA

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

Metals

Method 6020B: The following sample was diluted to bring the concentration of boron to within the instrument's linear range: APMW-8 (180-113523-22). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21
California	State	2891	04-30-21
Connecticut	State	PH-0688	09-30-20 *
Florida	NELAP	E871008	06-30-21
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-21
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-21
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-21
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-21
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-21
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-21

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



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-113523-1	APMW-3D	Water	11/09/20 11:15	11/11/20 09:30	
180-113523-2	APMW-4	Water	11/09/20 13:05	11/11/20 09:30	
180-113523-3	APMW-4D	Water	11/09/20 12:15	11/12/20 09:00	
180-113523-4	APMW-5	Water	11/09/20 14:10	11/11/20 09:30	
180-113523-5	APMW-5D	Water	11/09/20 16:50	11/11/20 09:30	
180-113523-6	APMW-6D	Water	11/10/20 08:55	11/12/20 09:00	
180-113523-11	FB-03	Water	11/10/20 09:00	11/12/20 09:00	
180-113523-12	APMW-5D FF	Water	11/09/20 16:50	11/11/20 09:30	
180-113523-13	APMW-8D	Water	11/10/20 07:42	11/12/20 09:00	
180-113523-14	DUP-05	Water	11/10/20 06:42	11/12/20 09:00	
180-113523-15	APMW-7	Water	11/10/20 08:37	11/12/20 09:00	
180-113523-17	APMW-11	Water	11/09/20 09:41	11/12/20 09:00	
180-113523-22	APMW-8	Water	11/09/20 15:32	11/12/20 09:00	



Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

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 PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: APMW-3D

Lab Sample ID: 180-113523-1

Date Collected: 11/09/20 11:15

Matrix: Water

Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			338140	11/23/20 09:33	EPS	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			337906	11/19/20 11:33	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	337597	11/18/20 11:07	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			337861	11/19/20 14:38	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	337072	11/13/20 14:39	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4

Lab Sample ID: 180-113523-2

Date Collected: 11/09/20 13:05

Matrix: Water

Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			338140	11/23/20 10:22	EPS	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		100			338140	11/23/20 10:38	EPS	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			337906	11/19/20 11:36	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	337597	11/18/20 11:07	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			337861	11/19/20 14:39	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	337072	11/13/20 14:39	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4D

Lab Sample ID: 180-113523-3

Date Collected: 11/09/20 12:15

Matrix: Water

Date Received: 11/12/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		25			338139	11/23/20 13:27	SAT	TAL PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		250			338139	11/23/20 13:44	SAT	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			337906	11/19/20 11:46	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	337597	11/18/20 11:07	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			337861	11/19/20 14:40	KEM	TAL PIT
Instrument ID: HGY										

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: APMW-4D

Lab Sample ID: 180-113523-3

Date Collected: 11/09/20 12:15

Matrix: Water

Date Received: 11/12/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	337289	11/16/20 12:15	GRB	TAL PIT

Client Sample ID: APMW-5

Lab Sample ID: 180-113523-4

Date Collected: 11/09/20 14:10

Matrix: Water

Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		25			338139	11/23/20 12:55	SAT	TAL PIT
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		250			338139	11/23/20 13:11	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			337906	11/19/20 11:57	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	337597	11/18/20 11:07	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			337861	11/19/20 14:41	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	5 mL	100 mL	337072	11/13/20 14:39	GRB	TAL PIT

Client Sample ID: APMW-5D

Lab Sample ID: 180-113523-5

Date Collected: 11/09/20 16:50

Matrix: Water

Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		1			338139	11/23/20 09:58	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			337906	11/19/20 12:07	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	337597	11/18/20 11:07	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			337861	11/19/20 14:44	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	337072	11/13/20 14:39	GRB	TAL PIT

Client Sample ID: APMW-6D

Lab Sample ID: 180-113523-6

Date Collected: 11/10/20 08:55

Matrix: Water

Date Received: 11/12/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		1			338139	11/23/20 15:04	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			337906	11/19/20 12:10	RJR	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: APMW-6D

Lab Sample ID: 180-113523-6

Date Collected: 11/10/20 08:55

Matrix: Water

Date Received: 11/12/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	337597	11/18/20 11:07	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			337861	11/19/20 14:45	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	337288	11/16/20 12:08	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-03

Lab Sample ID: 180-113523-11

Date Collected: 11/10/20 09:00

Matrix: Water

Date Received: 11/12/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			338140	11/23/20 16:54	EPS	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			337906	11/19/20 12:12	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	337597	11/18/20 11:07	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			337861	11/19/20 14:49	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	337422	11/17/20 13:12	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5D FF

Lab Sample ID: 180-113523-12

Date Collected: 11/09/20 16:50

Matrix: Water

Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			338140	11/23/20 11:27	EPS	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			337906	11/19/20 12:15	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	337597	11/18/20 11:07	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			337861	11/19/20 14:50	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	337072	11/13/20 14:39	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-8D

Lab Sample ID: 180-113523-13

Date Collected: 11/10/20 07:42

Matrix: Water

Date Received: 11/12/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			338139	11/23/20 14:00	SAT	TAL PIT
Instrument ID: CHIC2100A										

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: APMW-8D

Lab Sample ID: 180-113523-13

Date Collected: 11/10/20 07:42

Matrix: Water

Date Received: 11/12/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			337906	11/19/20 12:18	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	337597	11/18/20 11:07	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			337861	11/19/20 14:51	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	337288	11/16/20 12:08	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-05

Lab Sample ID: 180-113523-14

Date Collected: 11/10/20 06:42

Matrix: Water

Date Received: 11/12/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			338139	11/23/20 14:16	SAT	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			337906	11/19/20 12:25	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338144	11/20/20 14:16	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	337597	11/18/20 11:07	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			337861	11/19/20 14:52	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	337288	11/16/20 12:08	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-7

Lab Sample ID: 180-113523-15

Date Collected: 11/10/20 08:37

Matrix: Water

Date Received: 11/12/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			338139	11/23/20 11:51	SAT	TAL PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		100			338139	11/23/20 12:07	SAT	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			337906	11/19/20 12:28	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338144	11/20/20 14:23	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	337597	11/18/20 11:07	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			337861	11/19/20 14:53	KEM	TAL PIT
Instrument ID: HGY										

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: APMW-7

Lab Sample ID: 180-113523-15

Date Collected: 11/10/20 08:37

Matrix: Water

Date Received: 11/12/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	337288	11/16/20 12:08	GRB	TAL PIT

Client Sample ID: APMW-11

Lab Sample ID: 180-113523-17

Date Collected: 11/09/20 09:41

Matrix: Water

Date Received: 11/12/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		1			338140	11/23/20 16:05	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			337906	11/19/20 12:38	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			338144	11/20/20 14:33	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	337597	11/18/20 11:07	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			337861	11/19/20 14:54	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	337289	11/16/20 12:15	GRB	TAL PIT

Client Sample ID: APMW-8

Lab Sample ID: 180-113523-22

Date Collected: 11/09/20 15:32

Matrix: Water

Date Received: 11/12/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		10			338139	11/23/20 12:23	SAT	TAL PIT
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		100			338139	11/23/20 12:39	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			337906	11/19/20 12:41	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			338144	11/20/20 14:36	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	337667	11/18/20 14:46	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		10			338144	11/20/20 14:46	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	337597	11/18/20 11:07	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			337861	11/19/20 14:55	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	5 mL	100 mL	337289	11/16/20 12:15	GRB	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

TJO = Tyler Oliver

Batch Type: Analysis

EPS = Evan Scheuer

GRB = Gabriel Berghe

KEM = Kimberly Mahoney

RJR = Ron Rosenbaum

SAT = Stephen Tallam

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: APMW-3D

Lab Sample ID: 180-113523-1

Date Collected: 11/09/20 11:15

Matrix: Water

Date Received: 11/11/20 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32	F1	1.0	0.32	mg/L			11/23/20 09:33	1
Fluoride	0.18	J	0.20	0.044	mg/L			11/23/20 09:33	1
Sulfate	5.8	F1	1.0	0.38	mg/L			11/23/20 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 11:33	1
Arsenic	0.0033		0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 11:33	1
Barium	0.14		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 11:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 11:33	1
Boron	0.072	J	0.080	0.039	mg/L		11/18/20 14:46	11/19/20 11:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 11:33	1
Calcium	10		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 11:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 11:33	1
Cobalt	0.00021	J	0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 11:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 11:33	1
Lithium	0.0060		0.0050	0.0034	mg/L		11/18/20 14:46	11/19/20 11:33	1
Molybdenum	0.0022	J	0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 11:33	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 11:33	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 11:33	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			11/13/20 14:39	1

Client Sample ID: APMW-4

Lab Sample ID: 180-113523-2

Date Collected: 11/09/20 13:05

Matrix: Water

Date Received: 11/11/20 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3200		100	32	mg/L			11/23/20 10:38	100
Fluoride	<0.44		2.0	0.44	mg/L			11/23/20 10:22	10
Sulfate	320		10	3.8	mg/L			11/23/20 10:22	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 11:36	1
Arsenic	0.018		0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 11:36	1
Barium	0.23		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 11:36	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 11:36	1
Boron	1.3		0.080	0.039	mg/L		11/18/20 14:46	11/19/20 11:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 11:36	1
Calcium	160		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 11:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 11:36	1
Cobalt	0.0037		0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 11:36	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 11:36	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: APMW-4

Lab Sample ID: 180-113523-2

Date Collected: 11/09/20 13:05

Matrix: Water

Date Received: 11/11/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.049		0.0050	0.0034	mg/L		11/18/20 14:46	11/19/20 11:36	1
Molybdenum	0.0084	J	0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 11:36	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 11:36	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 11:36	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5400		100	100	mg/L			11/13/20 14:39	1

Client Sample ID: APMW-4D

Lab Sample ID: 180-113523-3

Date Collected: 11/09/20 12:15

Matrix: Water

Date Received: 11/12/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9300		250	80	mg/L			11/23/20 13:44	250
Fluoride	<1.1		5.0	1.1	mg/L			11/23/20 13:27	25
Sulfate	560		25	9.5	mg/L			11/23/20 13:27	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 11:46	1
Arsenic	0.0043		0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 11:46	1
Barium	0.24		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 11:46	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 11:46	1
Boron	3.6		0.080	0.039	mg/L		11/18/20 14:46	11/19/20 11:46	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 11:46	1
Calcium	220		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 11:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 11:46	1
Cobalt	0.0031		0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 11:46	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 11:46	1
Lithium	0.043		0.0050	0.0034	mg/L		11/18/20 14:46	11/19/20 11:46	1
Molybdenum	0.35		0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 11:46	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 11:46	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 11:46	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	16000		200	200	mg/L			11/16/20 12:15	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: APMW-5

Lab Sample ID: 180-113523-4

Date Collected: 11/09/20 14:10

Matrix: Water

Date Received: 11/11/20 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9400		250	80	mg/L			11/23/20 13:11	250
Fluoride	<1.1		5.0	1.1	mg/L			11/23/20 12:55	25
Sulfate	1000		25	9.5	mg/L			11/23/20 12:55	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 11:57	1
Arsenic	0.26		0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 11:57	1
Barium	0.10		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 11:57	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 11:57	1
Boron	5.8		0.080	0.039	mg/L		11/18/20 14:46	11/19/20 11:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 11:57	1
Calcium	330		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 11:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 11:57	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 11:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 11:57	1
Lithium	0.044		0.0050	0.0034	mg/L		11/18/20 14:46	11/19/20 11:57	1
Molybdenum	0.11		0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 11:57	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 11:57	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 11:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	14000		200	200	mg/L			11/13/20 14:39	1

Client Sample ID: APMW-5D

Lab Sample ID: 180-113523-5

Date Collected: 11/09/20 16:50

Matrix: Water

Date Received: 11/11/20 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		1.0	0.32	mg/L			11/23/20 09:58	1
Fluoride	0.17	J	0.20	0.044	mg/L			11/23/20 09:58	1
Sulfate	13		1.0	0.38	mg/L			11/23/20 09:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 12:07	1
Arsenic	0.012		0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 12:07	1
Barium	0.069		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 12:07	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 12:07	1
Boron	0.062	J	0.080	0.039	mg/L		11/18/20 14:46	11/19/20 12:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 12:07	1
Calcium	1.7		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 12:07	1
Chromium	0.0019	J	0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 12:07	1
Cobalt	0.00071	J	0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 12:07	1
Lead	0.00099	J	0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 12:07	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: APMW-5D

Lab Sample ID: 180-113523-5

Date Collected: 11/09/20 16:50

Matrix: Water

Date Received: 11/11/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0076		0.0050	0.0034	mg/L		11/18/20 14:46	11/19/20 12:07	1
Molybdenum	0.0012	J	0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 12:07	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 12:07	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 12:07	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			11/13/20 14:39	1

Client Sample ID: APMW-6D

Lab Sample ID: 180-113523-6

Date Collected: 11/10/20 08:55

Matrix: Water

Date Received: 11/12/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.32	mg/L			11/23/20 15:04	1
Fluoride	0.21		0.20	0.044	mg/L			11/23/20 15:04	1
Sulfate	20		1.0	0.38	mg/L			11/23/20 15:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 12:10	1
Arsenic	0.0041		0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 12:10	1
Barium	0.077		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 12:10	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 12:10	1
Boron	0.068	J	0.080	0.039	mg/L		11/18/20 14:46	11/19/20 12:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 12:10	1
Calcium	8.1		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 12:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 12:10	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 12:10	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 12:10	1
Lithium	0.0063		0.0050	0.0034	mg/L		11/18/20 14:46	11/19/20 12:10	1
Molybdenum	0.00081	J	0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 12:10	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 12:10	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 12:10	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			11/16/20 12:08	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: FB-03

Lab Sample ID: 180-113523-11

Date Collected: 11/10/20 09:00

Matrix: Water

Date Received: 11/12/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/23/20 16:54	1
Fluoride	<0.044		0.20	0.044	mg/L			11/23/20 16:54	1
Sulfate	<0.38		1.0	0.38	mg/L			11/23/20 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 12:12	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 12:12	1
Barium	<0.0016		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 12:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 12:12	1
Boron	<0.039		0.080	0.039	mg/L		11/18/20 14:46	11/19/20 12:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 12:12	1
Calcium	<0.13		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 12:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 12:12	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 12:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 12:12	1
Lithium	<0.0034		0.0050	0.0034	mg/L		11/18/20 14:46	11/19/20 12:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 12:12	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 12:12	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 12:12	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			11/17/20 13:12	1

Client Sample ID: APMW-5D FF

Lab Sample ID: 180-113523-12

Date Collected: 11/09/20 16:50

Matrix: Water

Date Received: 11/11/20 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.5		1.0	0.32	mg/L			11/23/20 11:27	1
Fluoride	0.16	J	0.20	0.044	mg/L			11/23/20 11:27	1
Sulfate	14		1.0	0.38	mg/L			11/23/20 11:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 12:15	1
Arsenic	0.011		0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 12:15	1
Barium	0.063		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 12:15	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 12:15	1
Boron	0.052	J	0.080	0.039	mg/L		11/18/20 14:46	11/19/20 12:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 12:15	1
Calcium	1.6		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 12:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 12:15	1
Cobalt	0.00033	J	0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 12:15	1
Lead	0.00024	J	0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 12:15	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: APMW-5D FF

Lab Sample ID: 180-113523-12

Date Collected: 11/09/20 16:50

Matrix: Water

Date Received: 11/11/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0072		0.0050	0.0034	mg/L		11/18/20 14:46	11/19/20 12:15	1
Molybdenum	0.0012	J	0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 12:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 12:15	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 12:15	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			11/13/20 14:39	1

Client Sample ID: APMW-8D

Lab Sample ID: 180-113523-13

Date Collected: 11/10/20 07:42

Matrix: Water

Date Received: 11/12/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		1.0	0.32	mg/L			11/23/20 14:00	1
Fluoride	0.22		0.20	0.044	mg/L			11/23/20 14:00	1
Sulfate	1.8		1.0	0.38	mg/L			11/23/20 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 12:18	1
Arsenic	0.0034		0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 12:18	1
Barium	0.12		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 12:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 12:18	1
Boron	0.076	J	0.080	0.039	mg/L		11/18/20 14:46	11/19/20 12:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 12:18	1
Calcium	13		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 12:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 12:18	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 12:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 12:18	1
Lithium	0.0044	J	0.0050	0.0034	mg/L		11/18/20 14:46	11/19/20 12:18	1
Molybdenum	0.00067	J	0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 12:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 12:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 12:18	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			11/16/20 12:08	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: DUP-05

Lab Sample ID: 180-113523-14

Date Collected: 11/10/20 06:42

Matrix: Water

Date Received: 11/12/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		1.0	0.32	mg/L			11/23/20 14:16	1
Fluoride	0.22		0.20	0.044	mg/L			11/23/20 14:16	1
Sulfate	1.8		1.0	0.38	mg/L			11/23/20 14:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 12:25	1
Arsenic	0.0033		0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 12:25	1
Barium	0.12		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 12:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 12:25	1
Boron	0.077	J	0.080	0.039	mg/L		11/18/20 14:46	11/19/20 12:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 12:25	1
Calcium	13		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 12:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 12:25	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 12:25	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 12:25	1
Lithium	0.0052		0.0050	0.0034	mg/L		11/18/20 14:46	11/20/20 14:16	1
Molybdenum	0.00070	J	0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 12:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 12:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 12:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			11/16/20 12:08	1

Client Sample ID: APMW-7

Lab Sample ID: 180-113523-15

Date Collected: 11/10/20 08:37

Matrix: Water

Date Received: 11/12/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4200		100	32	mg/L			11/23/20 12:07	100
Fluoride	<0.44		2.0	0.44	mg/L			11/23/20 11:51	10
Sulfate	64		10	3.8	mg/L			11/23/20 11:51	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 12:28	1
Arsenic	0.00058	J	0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 12:28	1
Barium	0.77		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 12:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 12:28	1
Boron	0.94		0.080	0.039	mg/L		11/18/20 14:46	11/19/20 12:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 12:28	1
Calcium	99		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 12:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 12:28	1
Cobalt	0.00024	J	0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 12:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 12:28	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: APMW-7

Lab Sample ID: 180-113523-15

Date Collected: 11/10/20 08:37

Matrix: Water

Date Received: 11/12/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0048	J	0.0050	0.0034	mg/L		11/18/20 14:46	11/20/20 14:23	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 12:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 12:28	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 12:28	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7100		100	100	mg/L			11/16/20 12:08	1

Client Sample ID: APMW-11

Lab Sample ID: 180-113523-17

Date Collected: 11/09/20 09:41

Matrix: Water

Date Received: 11/12/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.1		1.0	0.32	mg/L			11/23/20 16:05	1
Fluoride	<0.044		0.20	0.044	mg/L			11/23/20 16:05	1
Sulfate	0.51	J	1.0	0.38	mg/L			11/23/20 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 12:38	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 12:38	1
Barium	0.038		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 12:38	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 12:38	1
Boron	<0.039		0.080	0.039	mg/L		11/18/20 14:46	11/19/20 12:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 12:38	1
Calcium	11		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 12:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 12:38	1
Cobalt	0.00022	J	0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 12:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 12:38	1
Lithium	0.011		0.0050	0.0034	mg/L		11/18/20 14:46	11/20/20 14:33	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 12:38	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 12:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 12:38	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	68		10	10	mg/L			11/16/20 12:15	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Client Sample ID: APMW-8

Lab Sample ID: 180-113523-22

Date Collected: 11/09/20 15:32

Matrix: Water

Date Received: 11/12/20 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3600		100	32	mg/L			11/23/20 12:39	100
Fluoride	0.74	J	2.0	0.44	mg/L			11/23/20 12:23	10
Sulfate	590		10	3.8	mg/L			11/23/20 12:23	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 12:41	1
Arsenic	0.036		0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 12:41	1
Barium	0.23		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 12:41	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 12:41	1
Boron	21		0.80	0.39	mg/L		11/18/20 14:46	11/20/20 14:46	10
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 12:41	1
Calcium	470		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 12:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 12:41	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 12:41	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 12:41	1
Lithium	0.080		0.0050	0.0034	mg/L		11/18/20 14:46	11/20/20 14:36	1
Molybdenum	0.072		0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 12:41	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 12:41	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 12:41	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7100		200	200	mg/L			11/16/20 12:15	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-338139/6
Matrix: Water
Analysis Batch: 338139

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/23/20 06:36	1
Fluoride	<0.044		0.20	0.044	mg/L			11/23/20 06:36	1
Sulfate	<0.38		1.0	0.38	mg/L			11/23/20 06:36	1

Lab Sample ID: LCS 180-338139/5
Matrix: Water
Analysis Batch: 338139

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.5		mg/L		101	90 - 110
Fluoride	2.50	2.45		mg/L		98	90 - 110
Sulfate	50.0	49.5		mg/L		99	90 - 110

Lab Sample ID: 180-113523-5 MS
Matrix: Water
Analysis Batch: 338139

Client Sample ID: APMW-5D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.4		50.0	60.5		mg/L		102	90 - 110
Fluoride	0.17	J	2.50	2.67		mg/L		100	90 - 110
Sulfate	13		50.0	63.0		mg/L		100	90 - 110

Lab Sample ID: 180-113523-5 MSD
Matrix: Water
Analysis Batch: 338139

Client Sample ID: APMW-5D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.4		50.0	59.8		mg/L		101	90 - 110	1	20
Fluoride	0.17	J	2.50	2.67		mg/L		100	90 - 110	0	20
Sulfate	13		50.0	63.0		mg/L		100	90 - 110	0	20

Lab Sample ID: 180-113523-6 MS
Matrix: Water
Analysis Batch: 338139

Client Sample ID: APMW-6D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10		50.0	59.0		mg/L		98	90 - 110
Fluoride	0.21		2.50	2.64		mg/L		97	90 - 110
Sulfate	20		50.0	67.7		mg/L		95	90 - 110

Lab Sample ID: 180-113523-6 MSD
Matrix: Water
Analysis Batch: 338139

Client Sample ID: APMW-6D
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	59.6		mg/L		99	90 - 110	1	20
Fluoride	0.21		2.50	2.64		mg/L		98	90 - 110	0	20
Sulfate	20		50.0	68.3		mg/L		96	90 - 110	1	20

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-338140/30
Matrix: Water
Analysis Batch: 338140

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/23/20 15:49	1
Fluoride	<0.044		0.20	0.044	mg/L			11/23/20 15:49	1
Sulfate	<0.38		1.0	0.38	mg/L			11/23/20 15:49	1

Lab Sample ID: MB 180-338140/6
Matrix: Water
Analysis Batch: 338140

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/23/20 06:32	1
Fluoride	<0.044		0.20	0.044	mg/L			11/23/20 06:32	1
Sulfate	<0.38		1.0	0.38	mg/L			11/23/20 06:32	1

Lab Sample ID: LCS 180-338140/29
Matrix: Water
Analysis Batch: 338140

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.4		mg/L		99	90 - 110
Fluoride	2.50	2.54		mg/L		102	90 - 110
Sulfate	50.0	47.8		mg/L		96	90 - 110

Lab Sample ID: LCS 180-338140/5
Matrix: Water
Analysis Batch: 338140

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.9		mg/L		100	90 - 110
Fluoride	2.50	2.59		mg/L		104	90 - 110
Sulfate	50.0	49.0		mg/L		98	90 - 110

Lab Sample ID: 180-113523-1 MS
Matrix: Water
Analysis Batch: 338140

Client Sample ID: APMW-3D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<0.32	F1	50.0	72.9	F1	mg/L		146	90 - 110
Fluoride	0.18	J	2.50	2.49		mg/L		92	90 - 110
Sulfate	5.8	F1	50.0	47.2	F1	mg/L		83	90 - 110

Lab Sample ID: 180-113523-1 MSD
Matrix: Water
Analysis Batch: 338140

Client Sample ID: APMW-3D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<0.32	F1	50.0	73.4	F1	mg/L		147	90 - 110	1	20
Fluoride	0.18	J	2.50	2.60		mg/L		97	90 - 110	4	20
Sulfate	5.8	F1	50.0	53.9		mg/L		96	90 - 110	13	20

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-113523-17 MS
Matrix: Water
Analysis Batch: 338140

Client Sample ID: APMW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.1		50.0	59.9		mg/L		101	90 - 110
Fluoride	<0.044		2.50	2.60		mg/L		104	90 - 110
Sulfate	0.51	J	50.0	50.7		mg/L		100	90 - 110

Lab Sample ID: 180-113523-17 MSD
Matrix: Water
Analysis Batch: 338140

Client Sample ID: APMW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.1		50.0	61.1		mg/L		104	90 - 110	2	20
Fluoride	<0.044		2.50	2.74		mg/L		110	90 - 110	5	20
Sulfate	0.51	J	50.0	52.7		mg/L		104	90 - 110	4	20

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

Lab Sample ID: MB 180-337667/1-A
Matrix: Water
Analysis Batch: 337906

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 337667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/18/20 14:46	11/19/20 10:59	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/18/20 14:46	11/19/20 10:59	1
Barium	<0.0016		0.010	0.0016	mg/L		11/18/20 14:46	11/19/20 10:59	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/18/20 14:46	11/19/20 10:59	1
Boron	<0.039		0.080	0.039	mg/L		11/18/20 14:46	11/19/20 10:59	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/18/20 14:46	11/19/20 10:59	1
Calcium	<0.13		0.50	0.13	mg/L		11/18/20 14:46	11/19/20 10:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/18/20 14:46	11/19/20 10:59	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/18/20 14:46	11/19/20 10:59	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/18/20 14:46	11/19/20 10:59	1
Lithium	<0.0034		0.0050	0.0034	mg/L		11/18/20 14:46	11/19/20 10:59	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/18/20 14:46	11/19/20 10:59	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/18/20 14:46	11/19/20 10:59	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/18/20 14:46	11/19/20 10:59	1

Lab Sample ID: LCS 180-337667/2-A
Matrix: Water
Analysis Batch: 337906

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 337667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.249		mg/L		100	80 - 120
Arsenic	1.00	0.998		mg/L		100	80 - 120
Barium	1.00	0.997		mg/L		100	80 - 120
Beryllium	0.500	0.506		mg/L		101	80 - 120
Boron	1.25	1.24		mg/L		99	80 - 120
Cadmium	0.500	0.498		mg/L		100	80 - 120
Calcium	25.0	26.7		mg/L		107	80 - 120
Chromium	0.500	0.485		mg/L		97	80 - 120
Cobalt	0.500	0.483		mg/L		97	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

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

Lab Sample ID: LCS 180-337667/2-A
Matrix: Water
Analysis Batch: 337906

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 337667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.500	0.488		mg/L		98	80 - 120
Lithium	0.500	0.474		mg/L		95	80 - 120
Molybdenum	0.500	0.503		mg/L		101	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	0.937		mg/L		94	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-337597/1-A
Matrix: Water
Analysis Batch: 337861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 337597

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/18/20 11:07	11/19/20 14:35	1

Lab Sample ID: LCS 180-337597/2-A
Matrix: Water
Analysis Batch: 337861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 337597

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00254		mg/L		102	80 - 120

Lab Sample ID: 180-113523-4 MS
Matrix: Water
Analysis Batch: 337861

Client Sample ID: APMW-5
Prep Type: Total/NA
Prep Batch: 337597

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00013		0.00100	0.000944		mg/L		94	75 - 125

Lab Sample ID: 180-113523-4 MSD
Matrix: Water
Analysis Batch: 337861

Client Sample ID: APMW-5
Prep Type: Total/NA
Prep Batch: 337597

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	<0.00013		0.00100	0.000950		mg/L		95	75 - 125	1	20

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

Lab Sample ID: MB 180-337072/2
Matrix: Water
Analysis Batch: 337072

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	<10		10	10	mg/L			11/13/20 14:39	1

Lab Sample ID: LCS 180-337072/1
Matrix: Water
Analysis Batch: 337072

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	714	640		mg/L		90	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

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

Lab Sample ID: MB 180-337288/2
Matrix: Water
Analysis Batch: 337288

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	<10		10	10	mg/L			11/16/20 12:08	1

Lab Sample ID: LCS 180-337288/1
Matrix: Water
Analysis Batch: 337288

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	714	662		mg/L		93	80 - 120

Lab Sample ID: MB 180-337289/2
Matrix: Water
Analysis Batch: 337289

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	<10		10	10	mg/L			11/16/20 12:15	1

Lab Sample ID: LCS 180-337289/1
Matrix: Water
Analysis Batch: 337289

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	714	654		mg/L		92	80 - 120

Lab Sample ID: MB 180-337422/2
Matrix: Water
Analysis Batch: 337422

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	<10		10	10	mg/L			11/17/20 13:12	1

Lab Sample ID: LCS 180-337422/1
Matrix: Water
Analysis Batch: 337422

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	357	349		mg/L		98	80 - 120

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

HPLC/IC

Analysis Batch: 338139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-3	APMW-4D	Total/NA	Water	300.0	
180-113523-3	APMW-4D	Total/NA	Water	300.0	
180-113523-4	APMW-5	Total/NA	Water	300.0	
180-113523-4	APMW-5	Total/NA	Water	300.0	
180-113523-5	APMW-5D	Total/NA	Water	300.0	
180-113523-6	APMW-6D	Total/NA	Water	300.0	
180-113523-13	APMW-8D	Total/NA	Water	300.0	
180-113523-14	DUP-05	Total/NA	Water	300.0	
180-113523-15	APMW-7	Total/NA	Water	300.0	
180-113523-15	APMW-7	Total/NA	Water	300.0	
180-113523-22	APMW-8	Total/NA	Water	300.0	
180-113523-22	APMW-8	Total/NA	Water	300.0	
MB 180-338139/6	Method Blank	Total/NA	Water	300.0	
LCS 180-338139/5	Lab Control Sample	Total/NA	Water	300.0	
180-113523-5 MS	APMW-5D	Total/NA	Water	300.0	
180-113523-5 MSD	APMW-5D	Total/NA	Water	300.0	
180-113523-6 MS	APMW-6D	Total/NA	Water	300.0	
180-113523-6 MSD	APMW-6D	Total/NA	Water	300.0	

Analysis Batch: 338140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-1	APMW-3D	Total/NA	Water	300.0	
180-113523-2	APMW-4	Total/NA	Water	300.0	
180-113523-2	APMW-4	Total/NA	Water	300.0	
180-113523-11	FB-03	Total/NA	Water	300.0	
180-113523-12	APMW-5D FF	Total/NA	Water	300.0	
180-113523-17	APMW-11	Total/NA	Water	300.0	
MB 180-338140/30	Method Blank	Total/NA	Water	300.0	
MB 180-338140/6	Method Blank	Total/NA	Water	300.0	
LCS 180-338140/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 180-338140/5	Lab Control Sample	Total/NA	Water	300.0	
180-113523-1 MS	APMW-3D	Total/NA	Water	300.0	
180-113523-1 MSD	APMW-3D	Total/NA	Water	300.0	
180-113523-17 MS	APMW-11	Total/NA	Water	300.0	
180-113523-17 MSD	APMW-11	Total/NA	Water	300.0	

Metals

Prep Batch: 337597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-1	APMW-3D	Total/NA	Water	7470A	
180-113523-2	APMW-4	Total/NA	Water	7470A	
180-113523-3	APMW-4D	Total/NA	Water	7470A	
180-113523-4	APMW-5	Total/NA	Water	7470A	
180-113523-5	APMW-5D	Total/NA	Water	7470A	
180-113523-6	APMW-6D	Total/NA	Water	7470A	
180-113523-11	FB-03	Total/NA	Water	7470A	
180-113523-12	APMW-5D FF	Total/NA	Water	7470A	
180-113523-13	APMW-8D	Total/NA	Water	7470A	
180-113523-14	DUP-05	Total/NA	Water	7470A	
180-113523-15	APMW-7	Total/NA	Water	7470A	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Metals (Continued)

Prep Batch: 337597 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-17	APMW-11	Total/NA	Water	7470A	
180-113523-22	APMW-8	Total/NA	Water	7470A	
MB 180-337597/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-337597/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-113523-4 MS	APMW-5	Total/NA	Water	7470A	
180-113523-4 MSD	APMW-5	Total/NA	Water	7470A	

Prep Batch: 337667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-1	APMW-3D	Total Recoverable	Water	3005A	
180-113523-2	APMW-4	Total Recoverable	Water	3005A	
180-113523-3	APMW-4D	Total Recoverable	Water	3005A	
180-113523-4	APMW-5	Total Recoverable	Water	3005A	
180-113523-5	APMW-5D	Total Recoverable	Water	3005A	
180-113523-6	APMW-6D	Total Recoverable	Water	3005A	
180-113523-11	FB-03	Total Recoverable	Water	3005A	
180-113523-12	APMW-5D FF	Total Recoverable	Water	3005A	
180-113523-13	APMW-8D	Total Recoverable	Water	3005A	
180-113523-14	DUP-05	Total Recoverable	Water	3005A	
180-113523-15	APMW-7	Total Recoverable	Water	3005A	
180-113523-17	APMW-11	Total Recoverable	Water	3005A	
180-113523-22	APMW-8	Total Recoverable	Water	3005A	
MB 180-337667/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-337667/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 337861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-1	APMW-3D	Total/NA	Water	EPA 7470A	337597
180-113523-2	APMW-4	Total/NA	Water	EPA 7470A	337597
180-113523-3	APMW-4D	Total/NA	Water	EPA 7470A	337597
180-113523-4	APMW-5	Total/NA	Water	EPA 7470A	337597
180-113523-5	APMW-5D	Total/NA	Water	EPA 7470A	337597
180-113523-6	APMW-6D	Total/NA	Water	EPA 7470A	337597
180-113523-11	FB-03	Total/NA	Water	EPA 7470A	337597
180-113523-12	APMW-5D FF	Total/NA	Water	EPA 7470A	337597
180-113523-13	APMW-8D	Total/NA	Water	EPA 7470A	337597
180-113523-14	DUP-05	Total/NA	Water	EPA 7470A	337597
180-113523-15	APMW-7	Total/NA	Water	EPA 7470A	337597
180-113523-17	APMW-11	Total/NA	Water	EPA 7470A	337597
180-113523-22	APMW-8	Total/NA	Water	EPA 7470A	337597
MB 180-337597/1-A	Method Blank	Total/NA	Water	EPA 7470A	337597
LCS 180-337597/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	337597
180-113523-4 MS	APMW-5	Total/NA	Water	EPA 7470A	337597
180-113523-4 MSD	APMW-5	Total/NA	Water	EPA 7470A	337597

Analysis Batch: 337906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-1	APMW-3D	Total Recoverable	Water	EPA 6020B	337667
180-113523-2	APMW-4	Total Recoverable	Water	EPA 6020B	337667
180-113523-3	APMW-4D	Total Recoverable	Water	EPA 6020B	337667
180-113523-4	APMW-5	Total Recoverable	Water	EPA 6020B	337667

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

Metals (Continued)

Analysis Batch: 337906 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-5	APMW-5D	Total Recoverable	Water	EPA 6020B	337667
180-113523-6	APMW-6D	Total Recoverable	Water	EPA 6020B	337667
180-113523-11	FB-03	Total Recoverable	Water	EPA 6020B	337667
180-113523-12	APMW-5D FF	Total Recoverable	Water	EPA 6020B	337667
180-113523-13	APMW-8D	Total Recoverable	Water	EPA 6020B	337667
180-113523-14	DUP-05	Total Recoverable	Water	EPA 6020B	337667
180-113523-15	APMW-7	Total Recoverable	Water	EPA 6020B	337667
180-113523-17	APMW-11	Total Recoverable	Water	EPA 6020B	337667
180-113523-22	APMW-8	Total Recoverable	Water	EPA 6020B	337667
MB 180-337667/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	337667
LCS 180-337667/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	337667

Analysis Batch: 338144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-14	DUP-05	Total Recoverable	Water	EPA 6020B	337667
180-113523-15	APMW-7	Total Recoverable	Water	EPA 6020B	337667
180-113523-17	APMW-11	Total Recoverable	Water	EPA 6020B	337667
180-113523-22	APMW-8	Total Recoverable	Water	EPA 6020B	337667
180-113523-22	APMW-8	Total Recoverable	Water	EPA 6020B	337667

General Chemistry

Analysis Batch: 337072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-1	APMW-3D	Total/NA	Water	SM 2540C	
180-113523-2	APMW-4	Total/NA	Water	SM 2540C	
180-113523-4	APMW-5	Total/NA	Water	SM 2540C	
180-113523-5	APMW-5D	Total/NA	Water	SM 2540C	
180-113523-12	APMW-5D FF	Total/NA	Water	SM 2540C	
MB 180-337072/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-337072/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 337288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-6	APMW-6D	Total/NA	Water	SM 2540C	
180-113523-13	APMW-8D	Total/NA	Water	SM 2540C	
180-113523-14	DUP-05	Total/NA	Water	SM 2540C	
180-113523-15	APMW-7	Total/NA	Water	SM 2540C	
MB 180-337288/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-337288/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 337289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-3	APMW-4D	Total/NA	Water	SM 2540C	
180-113523-17	APMW-11	Total/NA	Water	SM 2540C	
180-113523-22	APMW-8	Total/NA	Water	SM 2540C	
MB 180-337289/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-337289/1	Lab Control Sample	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-1

General Chemistry

Analysis Batch: 337422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-11	FB-03	Total/NA	Water	SM 2540C	
MB 180-337422/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-337422/1	Lab Control Sample	Total/NA	Water	SM 2540C	

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- 12
- 13

Client Information		Sampler: Philip Evans Brett Swales		Lab PM: Brown, Shali	
Client Contact: SCS Contacts		Phone: 850-336-0192		E-Mail: shali.brown@eurofinset.com	
Company: SCS		Carrier Tracking No(s):			
Address: 3535 Colonnade Pkwy Bin S 530 EC		COC No:			
City: Birmingham		Page: 1 of 2			
State, Zip: AL, 35243		Job #:			
Phone: 205-992-6283		Analysis Requested			
Email:		Preservation Codes:			
SCS Contacts		A - HCL			
Project Name: Plant Watson		B - NaOH			
Site:		C - Zn Acetate			
Project #: 18020186		D - Nitric Acid			
SSOW#:		E - NaHSO4			
		F - MeOH			
		G - Amchlor			
		H - Ascorbic Acid			
		I - Ice			
		J - DI Water			
		K - EDTA			
		L - EDTA			
		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)			
		Other:			
		Special Instructions/Note:			
		180-113523 Chain of Custody			
		Total Number of containers			
		Perform MS/MSD (Yes or No)			
		Field Filtered Sample (Yes or No)			
		Appendix IV			
		Appendix III			
		Appendix II			
		Appendix I			
		Sample Identification			
		Sample Date			
		Sample Time			
		Sample Type (C=Comp, G=grab)			
		Matrix (W=water, S=solid, O=waste/oil, BT=tissue, AS=air)			
		Preservation Code:			
		Apmw-3D			
		Apmw-4			
		Apmw-4d			
		Apmw-5			
		Apmw-5d			
		Apmw-6d			
		Apmw-6R			
		Dup-04			
		FB-02			
		EB-03			
		FB-03			
		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:			
		Relinquished by:			
		Relinquished by:			
		Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			
		Custody Seal No.:			
		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:			
		Received by: [Signature]			
		Date/Time: 11-11-20			
		Company: [Signature]			
		Received by: [Signature]			
		Date/Time: 9/30			
		Company: [Signature]			
		Received by:			
		Date/Time:			
		Company:			
		Cooler Temperature(s) °C and Other Remarks:			



Chain of Custody Record



Client Information Client Contact: <u>Phil Evans / Brett Surly</u> SCS Contacts: <u>850-336-0192</u> Company: <u>SCS</u>		Sampler: <u>Phil Evans / Brett Surly</u> Lab PM: <u>Brown, Shali</u> Phone: <u>850-336-0192</u> E-Mail: <u>shali.brown@eurofinset.com</u>		Carrier Tracking No(s): COC No: <u>202</u> Page: <u>2 of 2</u> Job #:			
Address: <u>3535 Colonnade Pkwy Bin S 530 EC</u> City: <u>Birmingham</u> State/Zip: <u>AL, 35243</u> Phone: <u>205-992-6283</u> Email:		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: <u>18020186</u> SSO#:		Preservation Codes: 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) Other:			
Sample Identification APMW-5d FF APMW-8d DUP-05 APMW-7 EB-02 APMW-11 APMW-12 APMW-10 APMW-10d APMW-9 APMW-8		Sample Date 11/10/20 11/10/20 11/10/20 11/10/20 11/10/20 11/9/20 11/9/20 11/9/20 11/9/20 11/9/20		Sample Time 1039 0742 0642 0837 0845 0941 1025 1219 1329 1414 1532		Matrix (W=water, S=solid, O=wastoil, BT=Tissue, Ash) W W W W W W W W W W	
Sample Type (C=Comp, G=grab) G G G G G G G G G G		Perform MS/MSD (Yes or No) X X X X X X X X X X		Field Filtered Sample (Yes or No) X X X X X X X X X X		Analysis Requested Appendix III Appendix IV Appendix III FF Appendix IV FF Appendix III Appendix IV Appendix III Appendix IV Appendix III Appendix IV Appendix III Appendix IV	
Total Number of containers		Special Instructions/Note: <u>.45 micron filter</u>		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			
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/QC Requirements:			
Empty Kit Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> Relinquished by:		Date: <u>11/10/20</u> Date/Time: <u>1000</u> Date/Time:		Method of Shipment: Date/Time: <u>11-11-20</u> Date/Time: <u>930</u> Date/Time:			
Custody Seals Intact: <u>Yes</u> Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Company: <u>ETA</u> Company: <u>ETA</u> Company:			



Do Not Lift Using This Tag

ORIGIN ID:BIXA (850) 336-0192
RDH ENVIRONMENTAL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 10NOV20
ACTWGT: 64.00 LB
CAD: 6893799/SSFE2121
DIMS: 24x14x14 IN
BILL THIRD PARTY

Part # 15629542680021SHIP 10/21

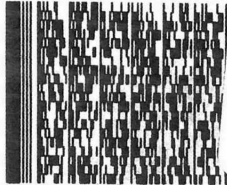
TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 983-8222
INVT
POI

REF:

DEPT:



180-113523 Waybill

EXPRESS

38
An 1071/1002020202

3 of 5

MPS# 0263 3987 6003 2843

Metr# 3987 6003 2821

0201

**WED - 11 NOV 10:30A
PRIORITY OVERNIGHT**

XH AGCA

15238

PA-US PIT



Uncorrected temp
Thermometer ID

27 °C

14

CF 0 Initials B

PT-WI-SR-001 effective 7/26/13



11.11
2843

A

10:30
1

97

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

omy Inis Tag

ORIGIN ID: BIX8 (850) 336-0192
 RDH ENVIRONMENTAL
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 10NOV20
 ACT WGT: 69.00 LB
 CWD: 6993799/SSFE2121
 DIMS: 24x14x14 IN
 BILL THIRD PARTY

TO TEST AMERICA
 TEST AMERICA
 301 ALPHA DR

PITTSBURGH PA 15238
 (412) 863-8222
 REF: PO1



WED - 11 NOV 10:30A
 PRIORITY OVERNIGHT

4 of 5
 MPS# 3987 6003 28F
 Mstr# 3987 6003 28

XH AGU,

Uncorrected temp 2.4 °C
 Thermometer ID 14

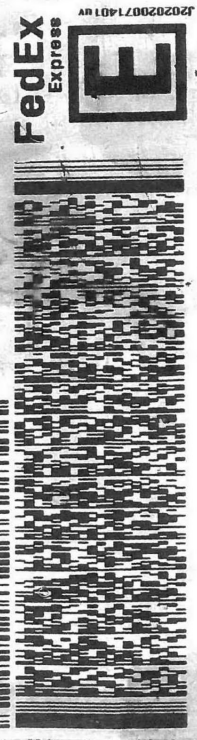
CF O Initials B

PT-WI-SR-001 effective 7/26/13

15238
 'S PIT

TO TEST AMERICA
 TEST AMERICA
 301 ALPHA DR

PITTSBURGH PA 15238
 (412) 863-8222
 REF: PO1



WED - 11 NOV 10:30A
 PRIORITY OVERNIGHT

1 of 5
 TRK# 3987 6003 2821
 ## MASTER ##

XH AGCA

15238
 PA-US PIT

Uncorrected temp 3.9 °C
 Thermometer ID 14

CF O Initials B

PT-WI-SR-001 effective 7/26/13



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-113523-1

Login Number: 113523

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-113523-1

Login Number: 113523

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 2

Creator: Watson, Debbie

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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-113523-2
Client Project/Site: CCR - Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
12/28/2020 7:39:24 AM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.eurofinsus.com/Env

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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Job ID: 180-113523-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-113523-2

Comments

No additional comments.

Receipt

The samples were received on 11/12/2020 9:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.4° C, 2.7° C and 3.9° C.

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: APMW-6R (180-113523-7), DUP-04 (180-113523-8), FB-02 (180-113523-9), EB-03 (180-113523-10), EB-02 (180-113523-16), APMW-12 (180-113523-18), APMW-10 (180-113523-19), APMW-10D (180-113523-20), APMW-9 (180-113523-21)

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): FB-03 (180-113523-11). The container labels list a sample collection time of 08:55, while the COC lists 09:00. The collection time on the COC was used.

RAD

Methods 903.0, 9315: Radium-226 prep batch 160-490326:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-3D (180-113523-1), APMW-4 (180-113523-2), APMW-4D (180-113523-3), APMW-5 (180-113523-4), APMW-5D (180-113523-5), APMW-6D (180-113523-6), FB-03 (180-113523-11), APMW-5D FF (180-113523-12), APMW-8D (180-113523-13), DUP-05 (180-113523-14), APMW-7 (180-113523-15), APMW-11 (180-113523-17), APMW-8 (180-113523-22), (LCS 160-490326/1-A), (LCSD 160-490326/2-A) and (MB 160-490326/23-A)

Method 9320: Radium-228 prep batch 160-490331:

The detection goal was not met for the following sample due to the presence of matrix interferences: APMW-5D (180-113523-5). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium-228 prep batch 160-490331:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-3D (180-113523-1), APMW-4 (180-113523-2), APMW-4D (180-113523-3), APMW-5 (180-113523-4), APMW-5D (180-113523-5), APMW-6D (180-113523-6), FB-03 (180-113523-11), APMW-5D FF (180-113523-12), APMW-8D (180-113523-13), DUP-05 (180-113523-14), APMW-7 (180-113523-15), APMW-11 (180-113523-17), APMW-8 (180-113523-22), (LCS 160-490331/1-A), (LCSD 160-490331/2-A) and (MB 160-490331/23-A)

Method PrecSep_0: Radium 228 Prep Batch 160-490331:

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-3D (180-113523-1), APMW-4 (180-113523-2), APMW-4D (180-113523-3), APMW-5 (180-113523-4), APMW-5D (180-113523-5), APMW-6D (180-113523-6), FB-03 (180-113523-11), APMW-5D FF (180-113523-12), APMW-8D (180-113523-13), DUP-05 (180-113523-14), APMW-7 (180-113523-15), APMW-11 (180-113523-17) and APMW-8 (180-113523-22). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-490331:

The following samples were prepared at a reduced aliquot due to a cloudy appearance: APMW-5D (180-113523-5).

Method PrecSep_0: Radium 228 Prep Batch 160-490331:

The following samples were prepared at a reduced aliquot due to yellow discoloration: APMW-3D (180-113523-1), APMW-4 (180-113523-2) and APMW-8 (180-113523-22).

Method PrecSep_0: Radium 228 Prep Batch 160-490331:

The following samples emanated a strong odor: APMW-3D (180-113523-1), APMW-6D (180-113523-6), APMW-8D (180-113523-13), DUP-05 (180-113523-14) and APMW-7 (180-113523-15).

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Job ID: 180-113523-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Method PrecSep-21: Radium 226 Prep Batch 160-490326:

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-3D (180-113523-1), APMW-4 (180-113523-2), APMW-4D (180-113523-3), APMW-5 (180-113523-4), APMW-5D (180-113523-5), APMW-6D (180-113523-6), FB-03 (180-113523-11), APMW-5D FF (180-113523-12), APMW-8D (180-113523-13), DUP-05 (180-113523-14), APMW-7 (180-113523-15), APMW-11 (180-113523-17) and APMW-8 (180-113523-22). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-490326:

The following samples were prepared at a reduced aliquot due to a cloudy appearance: APMW-5D (180-113523-5).

Method PrecSep-21: Radium 226 Prep Batch 160-490326:

The following samples were prepared at a reduced aliquot due to yellow discoloration: APMW-3D (180-113523-1), APMW-4 (180-113523-2) and APMW-8 (180-113523-22).

Method PrecSep-21: Radium 226 Prep Batch 160-490326:

The following samples emanated a strong odor: APMW-3D (180-113523-1), APMW-6D (180-113523-6), APMW-8D (180-113523-13), DUP-05 (180-113523-14) and APMW-7 (180-113523-15).

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



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-21
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-21
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-21

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-113523-1	APMW-3D	Water	11/09/20 11:15	11/11/20 09:30	
180-113523-2	APMW-4	Water	11/09/20 13:05	11/11/20 09:30	
180-113523-3	APMW-4D	Water	11/09/20 12:15	11/12/20 09:00	
180-113523-4	APMW-5	Water	11/09/20 14:10	11/11/20 09:30	
180-113523-5	APMW-5D	Water	11/09/20 16:50	11/11/20 09:30	
180-113523-6	APMW-6D	Water	11/10/20 08:55	11/12/20 09:00	
180-113523-11	FB-03	Water	11/10/20 09:00	11/12/20 09:00	
180-113523-12	APMW-5D FF	Water	11/09/20 16:50	11/11/20 09:30	
180-113523-13	APMW-8D	Water	11/10/20 07:42	11/12/20 09:00	
180-113523-14	DUP-05	Water	11/10/20 06:42	11/12/20 09:00	
180-113523-15	APMW-7	Water	11/10/20 08:37	11/12/20 09:00	
180-113523-17	APMW-11	Water	11/09/20 09:41	11/12/20 09:00	
180-113523-22	APMW-8	Water	11/09/20 15:32	11/12/20 09:00	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

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
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

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

Laboratory References:

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



Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Client Sample ID: APMW-3D

Lab Sample ID: 180-113523-1

Date Collected: 11/09/20 11:15

Matrix: Water

Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.47 mL	1.0 g	490326	11/27/20 10:00	KMP	TAL SL
Total/NA	Analysis	9315		1			492601	12/21/20 10:52	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.47 mL	1.0 g	490331	11/27/20 11:05	KMP	TAL SL
Total/NA	Analysis	9320		1			492288	12/17/20 13:16	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			493014	12/24/20 15:32	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4

Lab Sample ID: 180-113523-2

Date Collected: 11/09/20 13:05

Matrix: Water

Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			749.88 mL	1.0 g	490326	11/27/20 10:00	KMP	TAL SL
Total/NA	Analysis	9315		1			492601	12/21/20 10:53	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.88 mL	1.0 g	490331	11/27/20 11:05	KMP	TAL SL
Total/NA	Analysis	9320		1			492288	12/17/20 13:16	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			493014	12/24/20 15:32	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4D

Lab Sample ID: 180-113523-3

Date Collected: 11/09/20 12:15

Matrix: Water

Date Received: 11/12/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			749.71 mL	1.0 g	490326	11/27/20 10:00	KMP	TAL SL
Total/NA	Analysis	9315		1			492601	12/21/20 10:53	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.71 mL	1.0 g	490331	11/27/20 11:05	KMP	TAL SL
Total/NA	Analysis	9320		1			492288	12/17/20 13:16	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			493014	12/24/20 15:32	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5

Lab Sample ID: 180-113523-4

Date Collected: 11/09/20 14:10

Matrix: Water

Date Received: 11/11/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.03 mL	1.0 g	490326	11/27/20 10:00	KMP	TAL SL
Total/NA	Analysis	9315		1			492601	12/21/20 10:53	FLC	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Client Sample ID: APMW-5
Date Collected: 11/09/20 14:10
Date Received: 11/11/20 09:30

Lab Sample ID: 180-113523-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.03 mL	1.0 g	490331	11/27/20 11:05	KMP	TAL SL
Total/NA	Analysis	9320		1			492288	12/17/20 13:17	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			493014	12/24/20 15:32	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5D
Date Collected: 11/09/20 16:50
Date Received: 11/11/20 09:30

Lab Sample ID: 180-113523-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			749.17 mL	1.0 g	490326	11/27/20 10:00	KMP	TAL SL
Total/NA	Analysis	9315		1			492601	12/21/20 10:53	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.17 mL	1.0 g	490331	11/27/20 11:05	KMP	TAL SL
Total/NA	Analysis	9320		1			492288	12/17/20 13:17	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			493014	12/24/20 15:32	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-6D
Date Collected: 11/10/20 08:55
Date Received: 11/12/20 09:00

Lab Sample ID: 180-113523-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.65 mL	1.0 g	490326	11/27/20 10:00	KMP	TAL SL
Total/NA	Analysis	9315		1			492601	12/21/20 10:53	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.65 mL	1.0 g	490331	11/27/20 11:05	KMP	TAL SL
Total/NA	Analysis	9320		1			492288	12/17/20 13:17	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			493014	12/24/20 15:32	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-03
Date Collected: 11/10/20 09:00
Date Received: 11/12/20 09:00

Lab Sample ID: 180-113523-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.63 mL	1.0 g	490326	11/27/20 10:00	KMP	TAL SL
Total/NA	Analysis	9315		1			492601	12/21/20 10:53	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.63 mL	1.0 g	490331	11/27/20 11:05	KMP	TAL SL
Total/NA	Analysis	9320		1			492288	12/17/20 13:17	SCB	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Client Sample ID: FB-03
Date Collected: 11/10/20 09:00
Date Received: 11/12/20 09:00

Lab Sample ID: 180-113523-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			493014	12/24/20 15:32	GRW	TAL SL

Client Sample ID: APMW-5D FF
Date Collected: 11/09/20 16:50
Date Received: 11/11/20 09:30

Lab Sample ID: 180-113523-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.85 mL	1.0 g	490326	11/27/20 10:00	KMP	TAL SL
Total/NA	Analysis	9315		1			492601	12/21/20 10:53	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.85 mL	1.0 g	490331	11/27/20 11:05	KMP	TAL SL
Total/NA	Analysis	9320		1			492288	12/17/20 13:18	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			493014	12/24/20 15:32	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-8D
Date Collected: 11/10/20 07:42
Date Received: 11/12/20 09:00

Lab Sample ID: 180-113523-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.08 mL	1.0 g	490326	11/27/20 10:00	KMP	TAL SL
Total/NA	Analysis	9315		1			492601	12/21/20 10:53	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.08 mL	1.0 g	490331	11/27/20 11:05	KMP	TAL SL
Total/NA	Analysis	9320		1			492288	12/17/20 13:18	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			493014	12/24/20 15:32	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-05
Date Collected: 11/10/20 06:42
Date Received: 11/12/20 09:00

Lab Sample ID: 180-113523-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.57 mL	1.0 g	490326	11/27/20 10:00	KMP	TAL SL
Total/NA	Analysis	9315		1			492601	12/21/20 10:53	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.57 mL	1.0 g	490331	11/27/20 11:05	KMP	TAL SL
Total/NA	Analysis	9320		1			492288	12/17/20 13:18	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			493014	12/24/20 15:32	GRW	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Client Sample ID: APMW-7
Date Collected: 11/10/20 08:37
Date Received: 11/12/20 09:00

Lab Sample ID: 180-113523-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.01 mL	1.0 g	490326	11/27/20 10:00	KMP	TAL SL
Total/NA	Analysis	9315		1			492601	12/21/20 12:44	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.01 mL	1.0 g	490331	11/27/20 11:05	KMP	TAL SL
Total/NA	Analysis	9320		1			492288	12/17/20 13:18	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			493014	12/24/20 15:32	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-11
Date Collected: 11/09/20 09:41
Date Received: 11/12/20 09:00

Lab Sample ID: 180-113523-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.04 mL	1.0 g	490326	11/27/20 10:00	KMP	TAL SL
Total/NA	Analysis	9315		1			492601	12/21/20 12:44	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.04 mL	1.0 g	490331	11/27/20 11:05	KMP	TAL SL
Total/NA	Analysis	9320		1			492288	12/17/20 13:18	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			493014	12/24/20 15:32	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-8
Date Collected: 11/09/20 15:32
Date Received: 11/12/20 09:00

Lab Sample ID: 180-113523-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			749.24 mL	1.0 g	490326	11/27/20 10:00	KMP	TAL SL
Total/NA	Analysis	9315		1			492601	12/21/20 12:44	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.24 mL	1.0 g	490331	11/27/20 11:05	KMP	TAL SL
Total/NA	Analysis	9320		1			492312	12/17/20 13:21	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493014	12/24/20 15:32	GRW	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Analyst References:

Lab: TAL SL

Batch Type: Prep

KMP = Karen Phillips

Batch Type: Analysis

FLC = Fernando Cruz

GRW = George Witt

SCB = Sarah Bernsen

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Client Sample ID: APMW-3D

Lab Sample ID: 180-113523-1

Date Collected: 11/09/20 11:15

Matrix: Water

Date Received: 11/11/20 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.181		0.113	0.114	1.00	0.156	pCi/L	11/27/20 10:00	12/21/20 10:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					11/27/20 10:00	12/21/20 10:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.320	U	0.264	0.266	1.00	0.421	pCi/L	11/27/20 11:05	12/17/20 13:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					11/27/20 11:05	12/17/20 13:16	1
Y Carrier	81.9		40 - 110					11/27/20 11:05	12/17/20 13:16	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	0.501		0.287	0.289	5.00	0.421	pCi/L		12/24/20 15:32	1

Client Sample ID: APMW-4

Lab Sample ID: 180-113523-2

Date Collected: 11/09/20 13:05

Matrix: Water

Date Received: 11/11/20 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.445		0.180	0.185	1.00	0.204	pCi/L	11/27/20 10:00	12/21/20 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					11/27/20 10:00	12/21/20 10:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.56		0.426	0.449	1.00	0.530	pCi/L	11/27/20 11:05	12/17/20 13:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					11/27/20 11:05	12/17/20 13:16	1
Y Carrier	81.1		40 - 110					11/27/20 11:05	12/17/20 13:16	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Client Sample ID: APMW-4
Date Collected: 11/09/20 13:05
Date Received: 11/11/20 09:30

Lab Sample ID: 180-113523-2
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	2.00		0.462	0.486	5.00	0.530	pCi/L		12/24/20 15:32	1

Client Sample ID: APMW-4D
Date Collected: 11/09/20 12:15
Date Received: 11/12/20 09:00

Lab Sample ID: 180-113523-3
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	1.11		0.256	0.275	1.00	0.207	pCi/L	11/27/20 10:00	12/21/20 10:53	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	98.2		40 - 110					11/27/20 10:00	12/21/20 10:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.92		0.611	0.761	1.00	0.512	pCi/L	11/27/20 11:05	12/17/20 13:16	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	98.2		40 - 110					11/27/20 11:05	12/17/20 13:16	1
Y Carrier	83.4		40 - 110					11/27/20 11:05	12/17/20 13:16	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	6.03		0.662	0.809	5.00	0.512	pCi/L		12/24/20 15:32	1

Client Sample ID: APMW-5
Date Collected: 11/09/20 14:10
Date Received: 11/11/20 09:30

Lab Sample ID: 180-113523-4
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	0.381		0.145	0.149	1.00	0.166	pCi/L	11/27/20 10:00	12/21/20 10:53	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	101		40 - 110					11/27/20 10:00	12/21/20 10:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Client Sample ID: APMW-5
Date Collected: 11/09/20 14:10
Date Received: 11/11/20 09:30

Lab Sample ID: 180-113523-4
Matrix: Water

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.04		0.410	0.496	1.00	0.348	pCi/L	11/27/20 11:05	12/17/20 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					11/27/20 11:05	12/17/20 13:17	1
Y Carrier	83.0		40 - 110					11/27/20 11:05	12/17/20 13:17	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	3.42		0.435	0.518	5.00	0.348	pCi/L		12/24/20 15:32	1

Client Sample ID: APMW-5D
Date Collected: 11/09/20 16:50
Date Received: 11/11/20 09:30

Lab Sample ID: 180-113523-5
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	0.289	U	0.232	0.233	1.00	0.340	pCi/L	11/27/20 10:00	12/21/20 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	47.9		40 - 110					11/27/20 10:00	12/21/20 10:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0921	U G	0.697	0.697	1.00	1.23	pCi/L	11/27/20 11:05	12/17/20 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	47.9		40 - 110					11/27/20 11:05	12/17/20 13:17	1
Y Carrier	81.5		40 - 110					11/27/20 11:05	12/17/20 13:17	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	0.381	U	0.735	0.735	5.00	1.23	pCi/L		12/24/20 15:32	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Client Sample ID: APMW-6D

Lab Sample ID: 180-113523-6

Date Collected: 11/10/20 08:55

Matrix: Water

Date Received: 11/12/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.230		0.135	0.137	1.00	0.187	pCi/L	11/27/20 10:00	12/21/20 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					11/27/20 10:00	12/21/20 10:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.117	U	0.245	0.245	1.00	0.455	pCi/L	11/27/20 11:05	12/17/20 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					11/27/20 11:05	12/17/20 13:17	1
Y Carrier	81.1		40 - 110					11/27/20 11:05	12/17/20 13:17	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	0.113	U	0.280	0.281	5.00	0.455	pCi/L		12/24/20 15:32	1

Client Sample ID: FB-03

Lab Sample ID: 180-113523-11

Date Collected: 11/10/20 09:00

Matrix: Water

Date Received: 11/12/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0891	U	0.0876	0.0880	1.00	0.214	pCi/L	11/27/20 10:00	12/21/20 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					11/27/20 10:00	12/21/20 10:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.223	U	0.267	0.267	1.00	0.440	pCi/L	11/27/20 11:05	12/17/20 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					11/27/20 11:05	12/17/20 13:17	1
Y Carrier	84.5		40 - 110					11/27/20 11:05	12/17/20 13:17	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Client Sample ID: FB-03
Date Collected: 11/10/20 09:00
Date Received: 11/12/20 09:00

Lab Sample ID: 180-113523-11
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	0.281	0.281	5.00	0.440	pCi/L		12/24/20 15:32	1

Client Sample ID: APMW-5D FF
Date Collected: 11/09/20 16:50
Date Received: 11/11/20 09:30

Lab Sample ID: 180-113523-12
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	0.0961	U	0.123	0.123	1.00	0.205	pCi/L	11/27/20 10:00	12/21/20 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					11/27/20 10:00	12/21/20 10:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.282	U	0.290	0.291	1.00	0.472	pCi/L	11/27/20 11:05	12/17/20 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					11/27/20 11:05	12/17/20 13:18	1
Y Carrier	82.6		40 - 110					11/27/20 11:05	12/17/20 13:18	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	0.378	U	0.315	0.316	5.00	0.472	pCi/L		12/24/20 15:32	1

Client Sample ID: APMW-8D
Date Collected: 11/10/20 07:42
Date Received: 11/12/20 09:00

Lab Sample ID: 180-113523-13
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	0.363		0.160	0.164	1.00	0.199	pCi/L	11/27/20 10:00	12/21/20 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					11/27/20 10:00	12/21/20 10:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Client Sample ID: APMW-8D

Lab Sample ID: 180-113523-13

Date Collected: 11/10/20 07:42

Matrix: Water

Date Received: 11/12/20 09:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0695	U	0.251	0.251	1.00	0.459	pCi/L	11/27/20 11:05	12/17/20 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					11/27/20 11:05	12/17/20 13:18	1
Y Carrier	87.1		40 - 110					11/27/20 11:05	12/17/20 13:18	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	0.293	U	0.298	0.300	5.00	0.459	pCi/L		12/24/20 15:32	1

Client Sample ID: DUP-05

Lab Sample ID: 180-113523-14

Date Collected: 11/10/20 06:42

Matrix: Water

Date Received: 11/12/20 09:00

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	U	0.130	0.130	1.00	0.214	pCi/L	11/27/20 10:00	12/21/20 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					11/27/20 10:00	12/21/20 10:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0476	U	0.290	0.290	1.00	0.521	pCi/L	11/27/20 11:05	12/17/20 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					11/27/20 11:05	12/17/20 13:18	1
Y Carrier	87.9		40 - 110					11/27/20 11:05	12/17/20 13:18	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	0.0600	U	0.318	0.318	5.00	0.521	pCi/L		12/24/20 15:32	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Client Sample ID: APMW-7
Date Collected: 11/10/20 08:37
Date Received: 11/12/20 09:00

Lab Sample ID: 180-113523-15
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	2.38		0.370	0.428	1.00	0.223	pCi/L	11/27/20 10:00	12/21/20 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					11/27/20 10:00	12/21/20 12:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.53		0.626	0.752	1.00	0.581	pCi/L	11/27/20 11:05	12/17/20 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					11/27/20 11:05	12/17/20 13:18	1
Y Carrier	86.7		40 - 110					11/27/20 11:05	12/17/20 13:18	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	6.91		0.727	0.865	5.00	0.581	pCi/L		12/24/20 15:32	1

Client Sample ID: APMW-11
Date Collected: 11/09/20 09:41
Date Received: 11/12/20 09:00

Lab Sample ID: 180-113523-17
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	0.102	U	0.101	0.101	1.00	0.158	pCi/L	11/27/20 10:00	12/21/20 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					11/27/20 10:00	12/21/20 12:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0232	U	0.219	0.219	1.00	0.399	pCi/L	11/27/20 11:05	12/17/20 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					11/27/20 11:05	12/17/20 13:18	1
Y Carrier	86.7		40 - 110					11/27/20 11:05	12/17/20 13:18	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Client Sample ID: APMW-11

Lab Sample ID: 180-113523-17

Date Collected: 11/09/20 09:41

Matrix: Water

Date Received: 11/12/20 09:00

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	0.0786	U	0.241	0.241	5.00	0.399	pCi/L		12/24/20 15:32	1

Client Sample ID: APMW-8

Lab Sample ID: 180-113523-22

Date Collected: 11/09/20 15:32

Matrix: Water

Date Received: 11/12/20 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.833		0.237	0.248	1.00	0.220	pCi/L	11/27/20 10:00	12/21/20 12:44	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	90.0		40 - 110					11/27/20 10:00	12/21/20 12:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.72		0.473	0.499	1.00	0.606	pCi/L	11/27/20 11:05	12/17/20 13:21	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	90.0		40 - 110					11/27/20 11:05	12/17/20 13:21	1
Y Carrier	84.9		40 - 110					11/27/20 11:05	12/17/20 13:21	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	2.55		0.529	0.557	5.00	0.606	pCi/L		12/24/20 15:32	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-490326/23-A
Matrix: Water
Analysis Batch: 492601

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490326

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01516	U	0.109	0.109	1.00	0.206	pCi/L	11/27/20 10:00	12/21/20 12:44	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	87.9		40 - 110		11/27/20 10:00	12/21/20 12:44	1			

Lab Sample ID: LCS 160-490326/1-A
Matrix: Water
Analysis Batch: 492601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490326

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.44		1.17	1.00	0.189	pCi/L	92	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	79.4		40 - 110						

Lab Sample ID: LCSD 160-490326/2-A
Matrix: Water
Analysis Batch: 492601

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 490326

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER
				Uncert. (2σ+/-)							Limit
Radium-226	11.3	9.966		1.11	1.00	0.173	pCi/L	88	75 - 125	0.21	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	85.2		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-490331/23-A
Matrix: Water
Analysis Batch: 492312

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490331

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.3539	U	0.281	0.283	1.00	0.445	pCi/L	11/27/20 11:05	12/17/20 13:21	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	87.9		40 - 110		11/27/20 11:05	12/17/20 13:21	1			
Y Carrier	87.1		40 - 110		11/27/20 11:05	12/17/20 13:21	1			

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

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

Lab Sample ID: LCS 160-490331/1-A
Matrix: Water
Analysis Batch: 492288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490331

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	7.57	6.174		0.862	1.00	0.502	pCi/L	82	75	125
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	79.4		40 - 110							
Y Carrier	81.9		40 - 110							

Lab Sample ID: LCSD 160-490331/2-A
Matrix: Water
Analysis Batch: 492288

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 490331

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	Limit
									75	125	0.55	1
Radium-228	7.57	7.155		0.932	1.00	0.452	pCi/L	94	75	125	0.55	1
LCSD LCSD												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	85.2		40 - 110									
Y Carrier	83.0		40 - 110									

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113523-2

Rad


Prep Batch: 490326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-1	APMW-3D	Total/NA	Water	PrecSep-21	
180-113523-2	APMW-4	Total/NA	Water	PrecSep-21	
180-113523-3	APMW-4D	Total/NA	Water	PrecSep-21	
180-113523-4	APMW-5	Total/NA	Water	PrecSep-21	
180-113523-5	APMW-5D	Total/NA	Water	PrecSep-21	
180-113523-6	APMW-6D	Total/NA	Water	PrecSep-21	
180-113523-11	FB-03	Total/NA	Water	PrecSep-21	
180-113523-12	APMW-5D FF	Total/NA	Water	PrecSep-21	
180-113523-13	APMW-8D	Total/NA	Water	PrecSep-21	
180-113523-14	DUP-05	Total/NA	Water	PrecSep-21	
180-113523-15	APMW-7	Total/NA	Water	PrecSep-21	
180-113523-17	APMW-11	Total/NA	Water	PrecSep-21	
180-113523-22	APMW-8	Total/NA	Water	PrecSep-21	
MB 160-490326/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-490326/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-490326/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 490331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113523-1	APMW-3D	Total/NA	Water	PrecSep_0	
180-113523-2	APMW-4	Total/NA	Water	PrecSep_0	
180-113523-3	APMW-4D	Total/NA	Water	PrecSep_0	
180-113523-4	APMW-5	Total/NA	Water	PrecSep_0	
180-113523-5	APMW-5D	Total/NA	Water	PrecSep_0	
180-113523-6	APMW-6D	Total/NA	Water	PrecSep_0	
180-113523-11	FB-03	Total/NA	Water	PrecSep_0	
180-113523-12	APMW-5D FF	Total/NA	Water	PrecSep_0	
180-113523-13	APMW-8D	Total/NA	Water	PrecSep_0	
180-113523-14	DUP-05	Total/NA	Water	PrecSep_0	
180-113523-15	APMW-7	Total/NA	Water	PrecSep_0	
180-113523-17	APMW-11	Total/NA	Water	PrecSep_0	
180-113523-22	APMW-8	Total/NA	Water	PrecSep_0	
MB 160-490331/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-490331/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-490331/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Chain of Custody Record

Client Information Client Contact: <u>Philip Evans</u> <u>Brett Swales</u> SCS Contacts: <u>850-336-0192</u> Company: <u>SCS</u>		Lab PM: <u>Brown, Shali</u> E-Mail: <u>shali.brown@eurofinset.com</u>		Carrier Tracking No(s): COC No: <u>10f2</u> Page: <u>1 of 2</u> Job #:	
Address: <u>3535 Colonnade Pkwy Bin S 530 EC</u> City: <u>Birmingham</u> State, Zip: <u>AL, 35243</u> Phone: <u>205-992-6283</u> Email:		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: <u>18020186</u> SOW#:		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Total Number of Containers	
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 Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=waste/oil, BT=tissue, AS=air) Preservation Code:		Special Instructions/Note:  180-113523 Chain of Custody	
Relinquished by: <u>[Signature]</u> Date/Time: <u>11/10/20 1000</u> Relinquished by: <u>[Signature]</u> Date/Time: <u>11/10/20 1000</u> Relinquished by: <u>[Signature]</u> Date/Time:		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: Received by: <u>[Signature]</u> Date/Time: <u>11-11-20</u> Received by: <u>[Signature]</u> Date/Time: <u>930</u> Received by: <u>[Signature]</u> Date/Time:	
Custody Seals Intact: <u>Δ Yes Δ No</u> Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Ver: 01/16/2019	



Do Not Lift Using This Tag

ORIGIN ID:BIXA (850) 336-0192
RDH ENVIRONMENTAL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 10NOV20
ACTWGT: 64.00 LB
CAD: 6893799/SSFE2121
DIMS: 24x14x14 IN
BILL THIRD PARTY

Part # 15629542680021SHIP 10/21

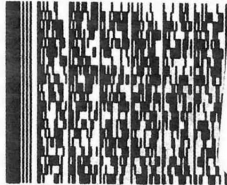
TO TEST AMERICA
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 983-8222
INVT
POI

REF:

DEPT:



180-113523 Waybill

EXPRESS

38
An 1071/1002020207

3 of 5

MPS# 0263 3987 6003 2843

Metr# 3987 6003 2821

0201

**WED - 11 NOV 10:30A
PRIORITY OVERNIGHT**

XH AGCA

15238

PA-US PIT



Uncorrected temp
Thermometer ID

27 °C

14

CF 0 Initials B

PT-WI-SR-001 effective 7/26/13



11.11

2843

A

10:30

1

97

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

omy Inis Tag

ORIGIN ID: B1X8 (850) 336-0192
 RDH ENVIRONMENTAL
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 10NOV20
 ACT WGT: 69.00 LB
 CAD: 6993799/SSFE2121
 DIMS: 24x14x14 IN
 BILL THIRD PARTY

TO TEST AMERICA
 TEST AMERICA
 301 ALPHA DR

PITTSBURGH PA 15238
 (412) 863-8222
 INU: PO1



4 of 5
 MPS# 3987 6003 28F
 Mstr# 3987 6003 28F
 WED - 11 NOV 10:30A
 PRIORITY OVERNIGHT

XH AGU,

Uncorrected temp $\frac{2.4}{14}$ °C
 Thermometer ID

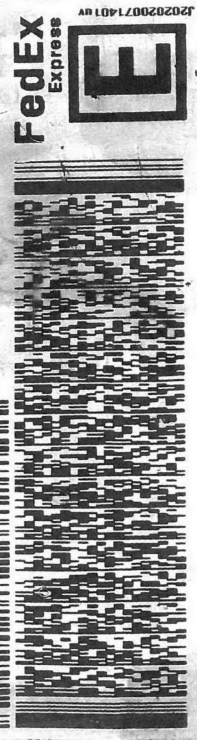
CF O Initials B

PT-WI-SR-001 effective 7/26/13

15238
 'S PIT

TO TEST AMERICA
 TEST AMERICA
 301 ALPHA DR

PITTSBURGH PA 15238
 (412) 863-8222
 INU: PO1



1 of 5
 TRK# 3987 6003 2821
 ## MASTER ##
 WED - 11 NOV 10:30A
 PRIORITY OVERNIGHT

XH AGCA

Uncorrected temp $\frac{3.9}{14}$ °C
 Thermometer ID

CF O Initials B

PT-WI-SR-001 effective 7/26/13

15238
 PA-US PIT

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

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-419364.1							
Shipping/Receiving		E-Mail: Shali.Brown@Eurofins.com	State of Origin: Georgia	Page: Page 1 of 2							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-113523-2									
Address: 13715 Rider Trail North, Earth City, MO, 63045		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Z - other (specify) Other:									
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Analysis Requested									
Email:	WO #:	Total Number of containers									
Project Name: CCR - Plant Watson	Project #: 18020186	Field Filtered Sample (Yes or No)									
Site:	SSOW#:	Perform MS/MSD (Yes or No)									
Due Date Requested: 11/25/2020		9315_Ra226/PreSep_21 Standard Target List									
TAT Requested (days):		9320_Ra228/PreSep_0 Standard Target List									
Matrix (W=water, S=solid, O=wastobtl, BT=TISSUE, A=AIR)		Ra226Ra228_GFPC									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PreSep_21 Standard Target List	9320_Ra228/PreSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
APMW-3D (180-113523-1)	11/9/20	11:15 Eastern	Water		X	X	X	X	X	2	
APMW-4 (180-113523-2)	11/9/20	13:05 Eastern	Water		X	X	X	X	X	2	
APMW-4D (180-113523-3)	11/9/20	12:15 Eastern	Water		X	X	X	X	X	2	
APMW-5 (180-113523-4)	11/9/20	14:10 Eastern	Water		X	X	X	X	X	2	
APMW-5D (180-113523-5)	11/9/20	16:50 Eastern	Water		X	X	X	X	X	2	
APMW-6D (180-113523-6)	11/10/20	08:55 Eastern	Water		X	X	X	X	X	2	
FB-03 (180-113523-11)	11/10/20	09:00 Eastern	Water		X	X	X	X	X	2	
APMW-5D FF (180-113523-12)	11/9/20	16:50 Eastern	Water		X	X	X	X	X	2	
APMW-8D (180-113523-13)	11/10/20	07:42 Eastern	Water		X	X	X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

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: _____ Time: _____ Method of Shipment: _____

Relinquished by: *[Signature]* Date/Time: 11/18/20 1530 Company: *[Signature]*
 Relinquished by: **Fed Ex** Date/Time: 09:15 11/19/20 Company: **ETA-S+L**
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-113523-2

Login Number: 113523

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-113523-2

Login Number: 113523

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 2

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is < /= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-113523-2

Login Number: 113523

List Number: 3

Creator: O'Gara, Mallory L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 11/19/20 01:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-113974-1
Client Project/Site: CCR - Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
12/1/2020 4:42:02 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Job ID: 180-113974-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-113974-1

Comments

No additional comments.

Receipt

The samples were received on 11/21/2020 10:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.2° C and 3.8° C.

GC Semi VOA

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

Metals

Methods 200.8, 6020B: The low level initial calibration verification (ICVL) associated with batch 180-338625 recovered above the upper control limit tin. The samples associated with this ICVL were non-detects -or- less than the RL for the affected analytes; therefore, the data have been reported.

Method 6020B: The following sample was diluted to bring the concentration of target analytes within the calibration range: APMW-6R (180-113974-1). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21
California	State	2891	04-30-21
Connecticut	State	PH-0688	09-30-20 *
Florida	NELAP	E871008	06-30-21
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-21
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-21
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-21
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-21
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-21
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-21

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



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-113974-1	APMW-6R	Water	11/20/20 13:20	11/21/20 10:45	
180-113974-2	APMW-9	Water	11/20/20 12:20	11/21/20 10:45	
180-113974-3	APMW-10	Water	11/20/20 11:35	11/21/20 10:45	
180-113974-4	APMW-10D	Water	11/20/20 10:50	11/21/20 10:45	
180-113974-5	APMW-12	Water	11/20/20 14:30	11/21/20 10:45	
180-113974-6	DUP-04	Water	11/20/20 10:35	11/21/20 10:45	
180-113974-7	FB-02	Water	11/20/20 10:52	11/21/20 10:45	
180-113974-8	EB-02	Water	11/20/20 12:45	11/21/20 10:45	
180-113974-9	EB-03	Water	11/20/20 13:55	11/21/20 10:45	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

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 PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Client Sample ID: APMW-6R

Lab Sample ID: 180-113974-1

Date Collected: 11/20/20 13:20

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			338600	11/26/20 13:55	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		100			338600	11/26/20 14:12	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	338392	11/24/20 14:40	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338625	11/25/20 21:54	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	338392	11/24/20 14:40	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		10			338736	11/27/20 10:25	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	338354	11/24/20 11:24	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			338583	11/25/20 15:36	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	338382	11/24/20 14:09	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-9

Lab Sample ID: 180-113974-2

Date Collected: 11/20/20 12:20

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			338600	11/26/20 14:28	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		100			338600	11/26/20 14:44	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	338392	11/24/20 14:40	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338625	11/25/20 22:08	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	338354	11/24/20 11:24	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			338583	11/25/20 15:39	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	338382	11/24/20 14:09	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10

Lab Sample ID: 180-113974-3

Date Collected: 11/20/20 11:35

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2.5			338600	11/26/20 16:22	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		25			338600	11/26/20 16:39	EPS	TAL PIT
Instrument ID: CHIC2100A										

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Client Sample ID: APMW-10

Lab Sample ID: 180-113974-3

Date Collected: 11/20/20 11:35

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	338392	11/24/20 14:40	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338625	11/25/20 22:22	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	338354	11/24/20 11:24	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			338583	11/25/20 15:40	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	338382	11/24/20 14:09	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10D

Lab Sample ID: 180-113974-4

Date Collected: 11/20/20 10:50

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			338600	11/26/20 17:28	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	338392	11/24/20 14:40	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338625	11/25/20 22:25	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	338354	11/24/20 11:24	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			338583	11/25/20 15:41	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	338382	11/24/20 14:09	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-12

Lab Sample ID: 180-113974-5

Date Collected: 11/20/20 14:30

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			338600	11/26/20 15:01	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	338392	11/24/20 14:40	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338625	11/25/20 22:29	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	338354	11/24/20 11:24	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			338583	11/25/20 15:42	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	338382	11/24/20 14:09	GRB	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Client Sample ID: DUP-04

Lab Sample ID: 180-113974-6

Date Collected: 11/20/20 10:35

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2.5			338600	11/26/20 16:55	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		25			338600	11/26/20 17:11	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	338392	11/24/20 14:40	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338625	11/25/20 22:32	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	338354	11/24/20 11:24	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			338583	11/25/20 15:43	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	338382	11/24/20 14:09	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-02

Lab Sample ID: 180-113974-7

Date Collected: 11/20/20 10:52

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			338600	11/26/20 16:06	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	338392	11/24/20 14:40	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338625	11/25/20 22:35	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	338354	11/24/20 11:24	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			338583	11/25/20 15:48	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	338382	11/24/20 14:09	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-02

Lab Sample ID: 180-113974-8

Date Collected: 11/20/20 12:45

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			338600	11/26/20 15:50	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	338392	11/24/20 14:40	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338625	11/25/20 22:39	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	338354	11/24/20 11:24	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			338583	11/25/20 15:49	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	338382	11/24/20 14:09	GRB	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Client Sample ID: EB-03

Lab Sample ID: 180-113974-9

Date Collected: 11/20/20 13:55

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			338662	11/27/20 14:59	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	338392	11/24/20 14:40	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			338625	11/25/20 23:03	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	338354	11/24/20 11:24	KEM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			338583	11/25/20 15:50	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	338598	11/25/20 21:54	GRB	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

TJO = Tyler Oliver

Batch Type: Analysis

EPS = Evan Scheuer

GRB = Gabriel Berghe

KEM = Kimberly Mahoney

RSK = Robert Kurtz

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Client Sample ID: APMW-6R

Lab Sample ID: 180-113974-1

Date Collected: 11/20/20 13:20

Matrix: Water

Date Received: 11/21/20 10:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4300		100	32	mg/L			11/26/20 14:12	100
Fluoride	<0.44		2.0	0.44	mg/L			11/26/20 13:55	10
Sulfate	790		10	3.8	mg/L			11/26/20 13:55	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/24/20 14:40	11/25/20 21:54	1
Arsenic	0.18		0.0010	0.00031	mg/L		11/24/20 14:40	11/25/20 21:54	1
Barium	0.048		0.010	0.0016	mg/L		11/24/20 14:40	11/25/20 21:54	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/24/20 14:40	11/25/20 21:54	1
Boron	9.5		0.80	0.39	mg/L		11/24/20 14:40	11/27/20 10:25	10
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/24/20 14:40	11/25/20 21:54	1
Calcium	420		0.50	0.13	mg/L		11/24/20 14:40	11/25/20 21:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/24/20 14:40	11/25/20 21:54	1
Cobalt	0.0024	J	0.0025	0.00013	mg/L		11/24/20 14:40	11/25/20 21:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/24/20 14:40	11/25/20 21:54	1
Lithium	0.055		0.0050	0.0034	mg/L		11/24/20 14:40	11/25/20 21:54	1
Molybdenum	0.42		0.015	0.00061	mg/L		11/24/20 14:40	11/25/20 21:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/24/20 14:40	11/25/20 21:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/24/20 14:40	11/25/20 21:54	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/24/20 11:24	11/25/20 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7400		100	100	mg/L			11/24/20 14:09	1

Client Sample ID: APMW-9

Lab Sample ID: 180-113974-2

Date Collected: 11/20/20 12:20

Matrix: Water

Date Received: 11/21/20 10:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3100		100	32	mg/L			11/26/20 14:44	100
Fluoride	<0.44		2.0	0.44	mg/L			11/26/20 14:28	10
Sulfate	270		10	3.8	mg/L			11/26/20 14:28	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/24/20 14:40	11/25/20 22:08	1
Arsenic	0.0012		0.0010	0.00031	mg/L		11/24/20 14:40	11/25/20 22:08	1
Barium	0.48		0.010	0.0016	mg/L		11/24/20 14:40	11/25/20 22:08	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/24/20 14:40	11/25/20 22:08	1
Boron	6.5		0.080	0.039	mg/L		11/24/20 14:40	11/25/20 22:08	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/24/20 14:40	11/25/20 22:08	1
Calcium	290		0.50	0.13	mg/L		11/24/20 14:40	11/25/20 22:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/24/20 14:40	11/25/20 22:08	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/24/20 14:40	11/25/20 22:08	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/24/20 14:40	11/25/20 22:08	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Client Sample ID: APMW-9

Lab Sample ID: 180-113974-2

Date Collected: 11/20/20 12:20

Matrix: Water

Date Received: 11/21/20 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0035	J	0.0050	0.0034	mg/L		11/24/20 14:40	11/25/20 22:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/24/20 14:40	11/25/20 22:08	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/24/20 14:40	11/25/20 22:08	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/24/20 14:40	11/25/20 22:08	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/24/20 11:24	11/25/20 15:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6000		100	100	mg/L			11/24/20 14:09	1

Client Sample ID: APMW-10

Lab Sample ID: 180-113974-3

Date Collected: 11/20/20 11:35

Matrix: Water

Date Received: 11/21/20 10:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		25	8.0	mg/L			11/26/20 16:39	25
Fluoride	0.81		0.50	0.11	mg/L			11/26/20 16:22	2.5
Sulfate	50		2.5	0.95	mg/L			11/26/20 16:22	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/24/20 14:40	11/25/20 22:22	1
Arsenic	0.072		0.0010	0.00031	mg/L		11/24/20 14:40	11/25/20 22:22	1
Barium	0.27		0.010	0.0016	mg/L		11/24/20 14:40	11/25/20 22:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/24/20 14:40	11/25/20 22:22	1
Boron	1.8		0.080	0.039	mg/L		11/24/20 14:40	11/25/20 22:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/24/20 14:40	11/25/20 22:22	1
Calcium	53		0.50	0.13	mg/L		11/24/20 14:40	11/25/20 22:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/24/20 14:40	11/25/20 22:22	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/24/20 14:40	11/25/20 22:22	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/24/20 14:40	11/25/20 22:22	1
Lithium	0.013		0.0050	0.0034	mg/L		11/24/20 14:40	11/25/20 22:22	1
Molybdenum	0.059		0.015	0.00061	mg/L		11/24/20 14:40	11/25/20 22:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/24/20 14:40	11/25/20 22:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/24/20 14:40	11/25/20 22:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/24/20 11:24	11/25/20 15:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2100		40	40	mg/L			11/24/20 14:09	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Client Sample ID: APMW-10D

Lab Sample ID: 180-113974-4

Date Collected: 11/20/20 10:50

Matrix: Water

Date Received: 11/21/20 10:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.6		1.0	0.32	mg/L			11/26/20 17:28	1
Fluoride	0.13	J	0.20	0.044	mg/L			11/26/20 17:28	1
Sulfate	2.9		1.0	0.38	mg/L			11/26/20 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/24/20 14:40	11/25/20 22:25	1
Arsenic	0.019		0.0010	0.00031	mg/L		11/24/20 14:40	11/25/20 22:25	1
Barium	0.032		0.010	0.0016	mg/L		11/24/20 14:40	11/25/20 22:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/24/20 14:40	11/25/20 22:25	1
Boron	0.22		0.080	0.039	mg/L		11/24/20 14:40	11/25/20 22:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/24/20 14:40	11/25/20 22:25	1
Calcium	2.9		0.50	0.13	mg/L		11/24/20 14:40	11/25/20 22:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/24/20 14:40	11/25/20 22:25	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/24/20 14:40	11/25/20 22:25	1
Lead	0.00089	J	0.0010	0.00013	mg/L		11/24/20 14:40	11/25/20 22:25	1
Lithium	0.011		0.0050	0.0034	mg/L		11/24/20 14:40	11/25/20 22:25	1
Molybdenum	0.017		0.015	0.00061	mg/L		11/24/20 14:40	11/25/20 22:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/24/20 14:40	11/25/20 22:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/24/20 14:40	11/25/20 22:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/24/20 11:24	11/25/20 15:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	180		10	10	mg/L			11/24/20 14:09	1

Client Sample ID: APMW-12

Lab Sample ID: 180-113974-5

Date Collected: 11/20/20 14:30

Matrix: Water

Date Received: 11/21/20 10:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		1.0	0.32	mg/L			11/26/20 15:01	1
Fluoride	<0.044		0.20	0.044	mg/L			11/26/20 15:01	1
Sulfate	0.79	J	1.0	0.38	mg/L			11/26/20 15:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/24/20 14:40	11/25/20 22:29	1
Arsenic	0.00042	J	0.0010	0.00031	mg/L		11/24/20 14:40	11/25/20 22:29	1
Barium	0.065		0.010	0.0016	mg/L		11/24/20 14:40	11/25/20 22:29	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/24/20 14:40	11/25/20 22:29	1
Boron	0.098		0.080	0.039	mg/L		11/24/20 14:40	11/25/20 22:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/24/20 14:40	11/25/20 22:29	1
Calcium	12		0.50	0.13	mg/L		11/24/20 14:40	11/25/20 22:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/24/20 14:40	11/25/20 22:29	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/24/20 14:40	11/25/20 22:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/24/20 14:40	11/25/20 22:29	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Client Sample ID: APMW-12

Lab Sample ID: 180-113974-5

Date Collected: 11/20/20 14:30

Matrix: Water

Date Received: 11/21/20 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.015		0.0050	0.0034	mg/L		11/24/20 14:40	11/25/20 22:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/24/20 14:40	11/25/20 22:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/24/20 14:40	11/25/20 22:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/24/20 14:40	11/25/20 22:29	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/24/20 11:24	11/25/20 15:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			11/24/20 14:09	1

Client Sample ID: DUP-04

Lab Sample ID: 180-113974-6

Date Collected: 11/20/20 10:35

Matrix: Water

Date Received: 11/21/20 10:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		25	8.0	mg/L			11/26/20 17:11	25
Fluoride	0.81		0.50	0.11	mg/L			11/26/20 16:55	2.5
Sulfate	50		2.5	0.95	mg/L			11/26/20 16:55	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/24/20 14:40	11/25/20 22:32	1
Arsenic	0.072		0.0010	0.00031	mg/L		11/24/20 14:40	11/25/20 22:32	1
Barium	0.27		0.010	0.0016	mg/L		11/24/20 14:40	11/25/20 22:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/24/20 14:40	11/25/20 22:32	1
Boron	1.8		0.080	0.039	mg/L		11/24/20 14:40	11/25/20 22:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/24/20 14:40	11/25/20 22:32	1
Calcium	53		0.50	0.13	mg/L		11/24/20 14:40	11/25/20 22:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/24/20 14:40	11/25/20 22:32	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/24/20 14:40	11/25/20 22:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/24/20 14:40	11/25/20 22:32	1
Lithium	0.013		0.0050	0.0034	mg/L		11/24/20 14:40	11/25/20 22:32	1
Molybdenum	0.060		0.015	0.00061	mg/L		11/24/20 14:40	11/25/20 22:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/24/20 14:40	11/25/20 22:32	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/24/20 14:40	11/25/20 22:32	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/24/20 11:24	11/25/20 15:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2200		40	40	mg/L			11/24/20 14:09	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Client Sample ID: FB-02

Lab Sample ID: 180-113974-7

Date Collected: 11/20/20 10:52

Matrix: Water

Date Received: 11/21/20 10:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/26/20 16:06	1
Fluoride	<0.044		0.20	0.044	mg/L			11/26/20 16:06	1
Sulfate	<0.38		1.0	0.38	mg/L			11/26/20 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/24/20 14:40	11/25/20 22:35	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/24/20 14:40	11/25/20 22:35	1
Barium	<0.0016		0.010	0.0016	mg/L		11/24/20 14:40	11/25/20 22:35	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/24/20 14:40	11/25/20 22:35	1
Boron	0.11		0.080	0.039	mg/L		11/24/20 14:40	11/25/20 22:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/24/20 14:40	11/25/20 22:35	1
Calcium	<0.13		0.50	0.13	mg/L		11/24/20 14:40	11/25/20 22:35	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/24/20 14:40	11/25/20 22:35	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/24/20 14:40	11/25/20 22:35	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/24/20 14:40	11/25/20 22:35	1
Lithium	<0.0034		0.0050	0.0034	mg/L		11/24/20 14:40	11/25/20 22:35	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/24/20 14:40	11/25/20 22:35	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/24/20 14:40	11/25/20 22:35	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/24/20 14:40	11/25/20 22:35	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/24/20 11:24	11/25/20 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			11/24/20 14:09	1

Client Sample ID: EB-02

Lab Sample ID: 180-113974-8

Date Collected: 11/20/20 12:45

Matrix: Water

Date Received: 11/21/20 10:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/26/20 15:50	1
Fluoride	<0.044		0.20	0.044	mg/L			11/26/20 15:50	1
Sulfate	<0.38		1.0	0.38	mg/L			11/26/20 15:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/24/20 14:40	11/25/20 22:39	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/24/20 14:40	11/25/20 22:39	1
Barium	<0.0016		0.010	0.0016	mg/L		11/24/20 14:40	11/25/20 22:39	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/24/20 14:40	11/25/20 22:39	1
Boron	0.064 J		0.080	0.039	mg/L		11/24/20 14:40	11/25/20 22:39	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/24/20 14:40	11/25/20 22:39	1
Calcium	<0.13		0.50	0.13	mg/L		11/24/20 14:40	11/25/20 22:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/24/20 14:40	11/25/20 22:39	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/24/20 14:40	11/25/20 22:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/24/20 14:40	11/25/20 22:39	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Client Sample ID: EB-02

Lab Sample ID: 180-113974-8

Date Collected: 11/20/20 12:45

Matrix: Water

Date Received: 11/21/20 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0034		0.0050	0.0034	mg/L		11/24/20 14:40	11/25/20 22:39	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/24/20 14:40	11/25/20 22:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/24/20 14:40	11/25/20 22:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/24/20 14:40	11/25/20 22:39	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/24/20 11:24	11/25/20 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			11/24/20 14:09	1

Client Sample ID: EB-03

Lab Sample ID: 180-113974-9

Date Collected: 11/20/20 13:55

Matrix: Water

Date Received: 11/21/20 10:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/27/20 14:59	1
Fluoride	<0.044		0.20	0.044	mg/L			11/27/20 14:59	1
Sulfate	<0.38		1.0	0.38	mg/L			11/27/20 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/24/20 14:40	11/25/20 23:03	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/24/20 14:40	11/25/20 23:03	1
Barium	<0.0016		0.010	0.0016	mg/L		11/24/20 14:40	11/25/20 23:03	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/24/20 14:40	11/25/20 23:03	1
Boron	0.079	J	0.080	0.039	mg/L		11/24/20 14:40	11/25/20 23:03	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/24/20 14:40	11/25/20 23:03	1
Calcium	<0.13		0.50	0.13	mg/L		11/24/20 14:40	11/25/20 23:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/24/20 14:40	11/25/20 23:03	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/24/20 14:40	11/25/20 23:03	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/24/20 14:40	11/25/20 23:03	1
Lithium	<0.0034		0.0050	0.0034	mg/L		11/24/20 14:40	11/25/20 23:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/24/20 14:40	11/25/20 23:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		11/24/20 14:40	11/25/20 23:03	1
Thallium	0.00032	J	0.0010	0.00015	mg/L		11/24/20 14:40	11/25/20 23:03	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/24/20 11:24	11/25/20 15:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			11/25/20 21:54	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-338600/6
Matrix: Water
Analysis Batch: 338600

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/26/20 05:48	1
Fluoride	<0.044		0.20	0.044	mg/L			11/26/20 05:48	1
Sulfate	<0.38		1.0	0.38	mg/L			11/26/20 05:48	1

Lab Sample ID: LCS 180-338600/5
Matrix: Water
Analysis Batch: 338600

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	53.3		mg/L		107	90 - 110
Fluoride	2.50	2.50		mg/L		100	90 - 110
Sulfate	50.0	51.0		mg/L		102	90 - 110

Lab Sample ID: MB 180-338662/6
Matrix: Water
Analysis Batch: 338662

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			11/27/20 10:48	1
Fluoride	<0.044		0.20	0.044	mg/L			11/27/20 10:48	1
Sulfate	<0.38		1.0	0.38	mg/L			11/27/20 10:48	1

Lab Sample ID: LCS 180-338662/5
Matrix: Water
Analysis Batch: 338662

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.2		mg/L		100	90 - 110
Fluoride	2.50	2.34		mg/L		93	90 - 110
Sulfate	50.0	50.2		mg/L		100	90 - 110

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

Lab Sample ID: MB 180-338392/1-A
Matrix: Water
Analysis Batch: 338736

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 338392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		11/24/20 14:40	11/27/20 10:22	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		11/24/20 14:40	11/27/20 10:22	1
Barium	<0.0016		0.010	0.0016	mg/L		11/24/20 14:40	11/27/20 10:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		11/24/20 14:40	11/27/20 10:22	1
Boron	<0.039		0.080	0.039	mg/L		11/24/20 14:40	11/27/20 10:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/24/20 14:40	11/27/20 10:22	1
Calcium	<0.13		0.50	0.13	mg/L		11/24/20 14:40	11/27/20 10:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/24/20 14:40	11/27/20 10:22	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		11/24/20 14:40	11/27/20 10:22	1
Lead	<0.00013		0.0010	0.00013	mg/L		11/24/20 14:40	11/27/20 10:22	1
Lithium	<0.0034		0.0050	0.0034	mg/L		11/24/20 14:40	11/27/20 10:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/24/20 14:40	11/27/20 10:22	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

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

Lab Sample ID: MB 180-338392/1-A
Matrix: Water
Analysis Batch: 338736

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 338392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0050	0.0015	mg/L		11/24/20 14:40	11/27/20 10:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		11/24/20 14:40	11/27/20 10:22	1

Lab Sample ID: LCS 180-338392/2-A
Matrix: Water
Analysis Batch: 338625

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 338392

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.231		mg/L		92	80 - 120
Arsenic	1.00	0.952		mg/L		95	80 - 120
Barium	1.00	0.976		mg/L		98	80 - 120
Beryllium	0.500	0.490		mg/L		98	80 - 120
Boron	1.25	1.23		mg/L		98	80 - 120
Cadmium	0.500	0.486		mg/L		97	80 - 120
Calcium	25.0	27.0		mg/L		108	80 - 120
Chromium	0.500	0.479		mg/L		96	80 - 120
Cobalt	0.500	0.477		mg/L		95	80 - 120
Lead	0.500	0.501		mg/L		100	80 - 120
Lithium	0.500	0.482		mg/L		96	80 - 120
Molybdenum	0.500	0.494		mg/L		99	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	1.00		mg/L		100	80 - 120

Lab Sample ID: 180-113974-8 MS
Matrix: Water
Analysis Batch: 338625

Client Sample ID: EB-02
Prep Type: Total Recoverable
Prep Batch: 338392

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.00038		0.250	0.230		mg/L		92	75 - 125
Arsenic	<0.00031		1.00	0.935		mg/L		93	75 - 125
Barium	<0.0016		1.00	0.959		mg/L		96	75 - 125
Beryllium	<0.00018		0.500	0.480		mg/L		96	75 - 125
Boron	0.064	J	1.25	1.26		mg/L		95	75 - 125
Cadmium	<0.00022		0.500	0.489		mg/L		98	75 - 125
Calcium	<0.13		25.0	27.6		mg/L		110	75 - 125
Chromium	<0.0015		0.500	0.496		mg/L		99	75 - 125
Cobalt	<0.00013		0.500	0.467		mg/L		93	75 - 125
Lead	<0.00013		0.500	0.496		mg/L		99	75 - 125
Lithium	<0.0034		0.500	0.480		mg/L		96	75 - 125
Molybdenum	<0.00061		0.500	0.488		mg/L		98	75 - 125
Selenium	<0.0015		1.00	1.01		mg/L		101	75 - 125
Thallium	<0.00015		1.00	0.992		mg/L		99	75 - 125

Lab Sample ID: 180-113974-8 MSD
Matrix: Water
Analysis Batch: 338625

Client Sample ID: EB-02
Prep Type: Total Recoverable
Prep Batch: 338392

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.00038		0.250	0.233		mg/L		93	75 - 125	2	20

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

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

Lab Sample ID: 180-113974-8 MSD
Matrix: Water
Analysis Batch: 338625

Client Sample ID: EB-02
Prep Type: Total Recoverable
Prep Batch: 338392

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.00031		1.00	0.930		mg/L		93	75 - 125	0	20
Barium	<0.0016		1.00	0.980		mg/L		98	75 - 125	2	20
Beryllium	<0.00018		0.500	0.483		mg/L		97	75 - 125	0	20
Boron	0.064	J	1.25	1.29		mg/L		98	75 - 125	2	20
Cadmium	<0.00022		0.500	0.493		mg/L		99	75 - 125	1	20
Calcium	<0.13		25.0	26.9		mg/L		108	75 - 125	2	20
Chromium	<0.0015		0.500	0.488		mg/L		98	75 - 125	2	20
Cobalt	<0.00013		0.500	0.467		mg/L		93	75 - 125	0	20
Lead	<0.00013		0.500	0.501		mg/L		100	75 - 125	1	20
Lithium	<0.0034		0.500	0.484		mg/L		97	75 - 125	1	20
Molybdenum	<0.00061		0.500	0.491		mg/L		98	75 - 125	0	20
Selenium	<0.0015		1.00	1.02		mg/L		102	75 - 125	1	20
Thallium	<0.00015		1.00	1.00		mg/L		100	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-338354/1-A
Matrix: Water
Analysis Batch: 338583

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 338354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		11/24/20 11:24	11/25/20 15:34	1

Lab Sample ID: LCS 180-338354/2-A
Matrix: Water
Analysis Batch: 338583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 338354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00238		mg/L		95	80 - 120

Lab Sample ID: 180-113974-1 MS
Matrix: Water
Analysis Batch: 338583

Client Sample ID: APMW-6R
Prep Type: Total/NA
Prep Batch: 338354

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00013		0.00100	0.000958		mg/L		96	75 - 125

Lab Sample ID: 180-113974-1 MSD
Matrix: Water
Analysis Batch: 338583

Client Sample ID: APMW-6R
Prep Type: Total/NA
Prep Batch: 338354

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.000916		mg/L		92	75 - 125	4	20

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

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

Lab Sample ID: MB 180-338382/2
Matrix: Water
Analysis Batch: 338382

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	<10		10	10	mg/L			11/24/20 14:09	1

Lab Sample ID: LCS 180-338382/1
Matrix: Water
Analysis Batch: 338382

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	312	339		mg/L		109	80 - 120

Lab Sample ID: 180-113974-3 DU
Matrix: Water
Analysis Batch: 338382

Client Sample ID: APMW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2100		2140		mg/L		3	10

Lab Sample ID: MB 180-338598/2
Matrix: Water
Analysis Batch: 338598

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	<10		10	10	mg/L			11/25/20 21:54	1

Lab Sample ID: LCS 180-338598/1
Matrix: Water
Analysis Batch: 338598

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	624	596		mg/L		96	80 - 120

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

HPLC/IC

Analysis Batch: 338600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-1	APMW-6R	Total/NA	Water	300.0	
180-113974-1	APMW-6R	Total/NA	Water	300.0	
180-113974-2	APMW-9	Total/NA	Water	300.0	
180-113974-2	APMW-9	Total/NA	Water	300.0	
180-113974-3	APMW-10	Total/NA	Water	300.0	
180-113974-3	APMW-10	Total/NA	Water	300.0	
180-113974-4	APMW-10D	Total/NA	Water	300.0	
180-113974-5	APMW-12	Total/NA	Water	300.0	
180-113974-6	DUP-04	Total/NA	Water	300.0	
180-113974-6	DUP-04	Total/NA	Water	300.0	
180-113974-7	FB-02	Total/NA	Water	300.0	
180-113974-8	EB-02	Total/NA	Water	300.0	
MB 180-338600/6	Method Blank	Total/NA	Water	300.0	
LCS 180-338600/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 338662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-9	EB-03	Total/NA	Water	300.0	
MB 180-338662/6	Method Blank	Total/NA	Water	300.0	
LCS 180-338662/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 338354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-1	APMW-6R	Total/NA	Water	7470A	
180-113974-2	APMW-9	Total/NA	Water	7470A	
180-113974-3	APMW-10	Total/NA	Water	7470A	
180-113974-4	APMW-10D	Total/NA	Water	7470A	
180-113974-5	APMW-12	Total/NA	Water	7470A	
180-113974-6	DUP-04	Total/NA	Water	7470A	
180-113974-7	FB-02	Total/NA	Water	7470A	
180-113974-8	EB-02	Total/NA	Water	7470A	
180-113974-9	EB-03	Total/NA	Water	7470A	
MB 180-338354/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-338354/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-113974-1 MS	APMW-6R	Total/NA	Water	7470A	
180-113974-1 MSD	APMW-6R	Total/NA	Water	7470A	

Prep Batch: 338392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-1	APMW-6R	Total Recoverable	Water	3005A	
180-113974-2	APMW-9	Total Recoverable	Water	3005A	
180-113974-3	APMW-10	Total Recoverable	Water	3005A	
180-113974-4	APMW-10D	Total Recoverable	Water	3005A	
180-113974-5	APMW-12	Total Recoverable	Water	3005A	
180-113974-6	DUP-04	Total Recoverable	Water	3005A	
180-113974-7	FB-02	Total Recoverable	Water	3005A	
180-113974-8	EB-02	Total Recoverable	Water	3005A	
180-113974-9	EB-03	Total Recoverable	Water	3005A	
MB 180-338392/1-A	Method Blank	Total Recoverable	Water	3005A	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

Metals (Continued)

Prep Batch: 338392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-338392/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-113974-8 MS	EB-02	Total Recoverable	Water	3005A	
180-113974-8 MSD	EB-02	Total Recoverable	Water	3005A	

Analysis Batch: 338583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-1	APMW-6R	Total/NA	Water	EPA 7470A	338354
180-113974-2	APMW-9	Total/NA	Water	EPA 7470A	338354
180-113974-3	APMW-10	Total/NA	Water	EPA 7470A	338354
180-113974-4	APMW-10D	Total/NA	Water	EPA 7470A	338354
180-113974-5	APMW-12	Total/NA	Water	EPA 7470A	338354
180-113974-6	DUP-04	Total/NA	Water	EPA 7470A	338354
180-113974-7	FB-02	Total/NA	Water	EPA 7470A	338354
180-113974-8	EB-02	Total/NA	Water	EPA 7470A	338354
180-113974-9	EB-03	Total/NA	Water	EPA 7470A	338354
MB 180-338354/1-A	Method Blank	Total/NA	Water	EPA 7470A	338354
LCS 180-338354/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	338354
180-113974-1 MS	APMW-6R	Total/NA	Water	EPA 7470A	338354
180-113974-1 MSD	APMW-6R	Total/NA	Water	EPA 7470A	338354

Analysis Batch: 338625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-1	APMW-6R	Total Recoverable	Water	EPA 6020B	338392
180-113974-2	APMW-9	Total Recoverable	Water	EPA 6020B	338392
180-113974-3	APMW-10	Total Recoverable	Water	EPA 6020B	338392
180-113974-4	APMW-10D	Total Recoverable	Water	EPA 6020B	338392
180-113974-5	APMW-12	Total Recoverable	Water	EPA 6020B	338392
180-113974-6	DUP-04	Total Recoverable	Water	EPA 6020B	338392
180-113974-7	FB-02	Total Recoverable	Water	EPA 6020B	338392
180-113974-8	EB-02	Total Recoverable	Water	EPA 6020B	338392
180-113974-9	EB-03	Total Recoverable	Water	EPA 6020B	338392
LCS 180-338392/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	338392
180-113974-8 MS	EB-02	Total Recoverable	Water	EPA 6020B	338392
180-113974-8 MSD	EB-02	Total Recoverable	Water	EPA 6020B	338392

Analysis Batch: 338736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-1	APMW-6R	Total Recoverable	Water	EPA 6020B	338392
MB 180-338392/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	338392

General Chemistry

Analysis Batch: 338382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-1	APMW-6R	Total/NA	Water	SM 2540C	
180-113974-2	APMW-9	Total/NA	Water	SM 2540C	
180-113974-3	APMW-10	Total/NA	Water	SM 2540C	
180-113974-4	APMW-10D	Total/NA	Water	SM 2540C	
180-113974-5	APMW-12	Total/NA	Water	SM 2540C	
180-113974-6	DUP-04	Total/NA	Water	SM 2540C	
180-113974-7	FB-02	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-1

General Chemistry (Continued)

Analysis Batch: 338382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-8	EB-02	Total/NA	Water	SM 2540C	
MB 180-338382/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-338382/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-113974-3 DU	APMW-10	Total/NA	Water	SM 2540C	

Analysis Batch: 338598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-9	EB-03	Total/NA	Water	SM 2540C	
MB 180-338598/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-338598/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Part # 156297-435 RRDB EXP 10/21

SHIP DATE: 20NOV20
ACT WT: 2.20 LB
CAD: 6'
DIMS: 12.1
12.1
12.1
12:00

ORIGIN ID: BIXA (850) 336-0192
RDH ENVIRONMENTAL
5720 DOVE DR
MILTON, FL 32571
UNITED STATES US

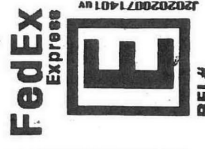
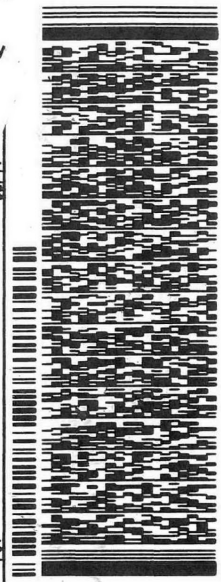
TO TEST AMERICA

301 ALPHA DR

PITTSBURGH PA 15238

(412) 963-6222
REF1

R 639



REL# 3786346

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 3991 9613 1211
0201

XO AGCA

15238 PA-US PI

Uncorrected temp 22 °C
Thermometer ID 14
CF O Initials B
PT-WI-SR-001 effective 7/26/13



180-113974 Waybill

Part # 156297-435 RRDB EXP 10/21

SHIP DATE: 20NOV20
ACT WT: 62.20 LB
CAD: 699600/58FE2121
DIMS: 29x13x13 IN

ORIGIN ID: BIXA (850) 336-0192
RDH ENVIRONMENTAL
5720 DOVE DR
MILTON, FL 32571
UNITED STATES US

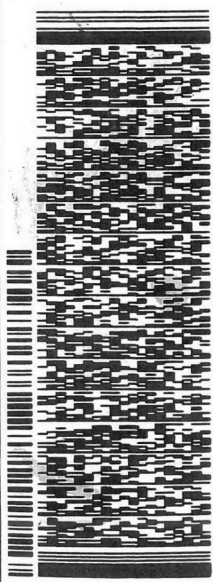
TO TEST AMERICA

301 ALPHA DR

PITTSBURGH PA 15238

(412) 963-6222
REF1

DEPT1



REL# 3786346

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 3991 9609 8984
0201

XO AGCA

15238 PA-US PIT

Uncorrected temp 38 °C
Thermometer ID 14
CF O Initials B
PT-WI-SR-001 effective 7/26/13



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-113974-1

Login Number: 113974

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-113974-2
Client Project/Site: CCR - Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
1/13/2021 7:57:36 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

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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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Job ID: 180-113974-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-113974-2

Comments

No additional comments.

Receipt

The samples were received on 11/21/2020 10:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.2° C and 3.8° C.

RAD

Method 9315: 9315 prep batch 490915

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-12 (180-113974-5), DUP-04 (180-113974-6), FB-02 (180-113974-7), EB-02 (180-113974-8), EB-03 (180-113974-9), (LCS 160-490915/1-A), (LCSD 160-490915/2-A) and (MB 160-490915/23-A)

Methods 903.0, 9315: 903 / 9315 prep batch 490793

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-6R (180-113974-1), APMW-9 (180-113974-2), APMW-10 (180-113974-3), APMW-10D (180-113974-4), (LCS 160-490793/1-A) and (MB 160-490793/24-A)

Methods 904.0, 9320: 904/9320 prep batch 490801

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-6R (180-113974-1), APMW-9 (180-113974-2), APMW-10 (180-113974-3), APMW-10D (180-113974-4), (LCS 160-490801/1-A) and (MB 160-490801/24-A)

Method 9320: 9320 Prep Batch: 160-490918

The LCS/LCSD recovered at (LCS-135% LCSD-136%) for Ra228. The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (58-151%) per method requirements. Although there is a qualifier, the LCS passes. No further action is required. (LCS 160-490918/1-A) and (LCSD 160-490918/2-A)

Method 9320: 9320 prep batch 490918

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-12 (180-113974-5), DUP-04 (180-113974-6), FB-02 (180-113974-7), EB-02 (180-113974-8), EB-03 (180-113974-9), (LCS 160-490918/1-A), (LCSD 160-490918/2-A) and (MB 160-490918/23-A)

Method PrecSep_0: Radium 228 Prep Batch 160-490801:

The following samples contained a slight yellow discoloration: APMW-6R (180-113974-1), APMW-10 (180-113974-3) and APMW-10D (180-113974-4).

Method PrecSep_0: Radium 228 Prep Batch 160-490918:

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-12 (180-113974-5), DUP-04 (180-113974-6), FB-02 (180-113974-7), EB-02 (180-113974-8) and EB-03 (180-113974-9). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-490918:

The following samples contained a slight yellow discoloration: DUP-04 (180-113974-6).

Method PrecSep-21: Radium 226 Prep Batch 160-490793:

The following samples contained a slight yellow discoloration: APMW-9 (180-113974-2), APMW-10 (180-113974-3) and APMW-10D

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Job ID: 180-113974-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

(180-113974-4).

Method PrecSep-21: Radium 226 Prep Batch 160-490915:

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-12 (180-113974-5), DUP-04 (180-113974-6), FB-02 (180-113974-7), EB-02 (180-113974-8) and EB-03 (180-113974-9). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-490915:

The following samples contained a slight yellow discoloration: DUP-04 (180-113974-6).

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



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Qualifiers

Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-21
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	12-31-20 *
Louisiana	NELAP	04080	06-30-21
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-21
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-21

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

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-113974-1	APMW-6R	Water	11/20/20 13:20	11/21/20 10:45	
180-113974-2	APMW-9	Water	11/20/20 12:20	11/21/20 10:45	
180-113974-3	APMW-10	Water	11/20/20 11:35	11/21/20 10:45	
180-113974-4	APMW-10D	Water	11/20/20 10:50	11/21/20 10:45	
180-113974-5	APMW-12	Water	11/20/20 14:30	11/21/20 10:45	
180-113974-6	DUP-04	Water	11/20/20 10:35	11/21/20 10:45	
180-113974-7	FB-02	Water	11/20/20 10:52	11/21/20 10:45	
180-113974-8	EB-02	Water	11/20/20 12:45	11/21/20 10:45	
180-113974-9	EB-03	Water	11/20/20 13:55	11/21/20 10:45	



Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

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
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Client Sample ID: APMW-6R

Lab Sample ID: 180-113974-1

Date Collected: 11/20/20 13:20

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.08 mL	1.0 g	490793	12/03/20 10:36	KMP	TAL SL
Total/NA	Analysis	9315		1			494639	01/11/21 18:36	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.08 mL	1.0 g	490801	12/03/20 11:21	KMP	TAL SL
Total/NA	Analysis	9320		1			494651	01/11/21 08:38	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			494941	01/13/21 16:55	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-9

Lab Sample ID: 180-113974-2

Date Collected: 11/20/20 12:20

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.89 mL	1.0 g	490793	12/03/20 10:36	KMP	TAL SL
Total/NA	Analysis	9315		1			494639	01/11/21 18:36	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.89 mL	1.0 g	490801	12/03/20 11:21	KMP	TAL SL
Total/NA	Analysis	9320		1			494651	01/11/21 08:38	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			494941	01/13/21 16:55	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10

Lab Sample ID: 180-113974-3

Date Collected: 11/20/20 11:35

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.96 mL	1.0 g	490793	12/03/20 10:36	KMP	TAL SL
Total/NA	Analysis	9315		1			494639	01/11/21 18:36	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.96 mL	1.0 g	490801	12/03/20 11:21	KMP	TAL SL
Total/NA	Analysis	9320		1			494651	01/11/21 08:39	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			494941	01/13/21 16:55	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10D

Lab Sample ID: 180-113974-4

Date Collected: 11/20/20 10:50

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.45 mL	1.0 g	490793	12/03/20 10:36	KMP	TAL SL
Total/NA	Analysis	9315		1			494639	01/11/21 18:37	SCB	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Client Sample ID: APMW-10D

Lab Sample ID: 180-113974-4

Date Collected: 11/20/20 10:50

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.45 mL	1.0 g	490801	12/03/20 11:21	KMP	TAL SL
Total/NA	Analysis	9320		1			494651	01/11/21 08:39	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			494941	01/13/21 16:55	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-12

Lab Sample ID: 180-113974-5

Date Collected: 11/20/20 14:30

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.94 mL	1.0 g	490915	12/04/20 10:47	KMP	TAL SL
Total/NA	Analysis	9315		1			494651	01/11/21 14:41	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.94 mL	1.0 g	490918	12/04/20 11:36	KMP	TAL SL
Total/NA	Analysis	9320		1			494651	01/11/21 08:42	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			494781	01/12/21 20:53	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-04

Lab Sample ID: 180-113974-6

Date Collected: 11/20/20 10:35

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.69 mL	1.0 g	490915	12/04/20 10:47	KMP	TAL SL
Total/NA	Analysis	9315		1			494651	01/11/21 14:41	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.69 mL	1.0 g	490918	12/04/20 11:36	KMP	TAL SL
Total/NA	Analysis	9320		1			494651	01/11/21 08:42	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			494781	01/12/21 20:53	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-02

Lab Sample ID: 180-113974-7

Date Collected: 11/20/20 10:52

Matrix: Water

Date Received: 11/21/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.09 mL	1.0 g	490915	12/04/20 10:47	KMP	TAL SL
Total/NA	Analysis	9315		1			494651	01/11/21 14:41	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.09 mL	1.0 g	490918	12/04/20 11:36	KMP	TAL SL
Total/NA	Analysis	9320		1			494651	01/11/21 08:42	FLC	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Client Sample ID: FB-02

Date Collected: 11/20/20 10:52

Date Received: 11/21/20 10:45

Lab Sample ID: 180-113974-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			494781	01/12/21 20:53	GRW	TAL SL

Client Sample ID: EB-02

Date Collected: 11/20/20 12:45

Date Received: 11/21/20 10:45

Lab Sample ID: 180-113974-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.51 mL	1.0 g	490915	12/04/20 10:47	KMP	TAL SL
Total/NA	Analysis	9315		1			494651	01/11/21 14:41	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.51 mL	1.0 g	490918	12/04/20 11:36	KMP	TAL SL
Total/NA	Analysis	9320		1			494651	01/11/21 08:42	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			494781	01/12/21 20:53	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-03

Date Collected: 11/20/20 13:55

Date Received: 11/21/20 10:45

Lab Sample ID: 180-113974-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.67 mL	1.0 g	490915	12/04/20 10:47	KMP	TAL SL
Total/NA	Analysis	9315		1			494651	01/11/21 14:41	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.67 mL	1.0 g	490918	12/04/20 11:36	KMP	TAL SL
Total/NA	Analysis	9320		1			494651	01/11/21 08:42	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			494781	01/12/21 20:53	GRW	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

KMP = Karen Phillips

Batch Type: Analysis

FLC = Fernando Cruz

GRW = George Witt

SCB = Sarah Bernsen

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Client Sample ID: APMW-6R

Lab Sample ID: 180-113974-1

Date Collected: 11/20/20 13:20

Matrix: Water

Date Received: 11/21/20 10:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.403		0.224	0.227	1.00	0.276	pCi/L	12/03/20 10:36	01/11/21 18:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					12/03/20 10:36	01/11/21 18:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.92		0.464	0.536	1.00	0.457	pCi/L	12/03/20 11:21	01/11/21 08:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					12/03/20 11:21	01/11/21 08:38	1
Y Carrier	76.3		40 - 110					12/03/20 11:21	01/11/21 08:38	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	3.32		0.515	0.582	5.00	0.457	pCi/L		01/13/21 16:55	1

Client Sample ID: APMW-9

Lab Sample ID: 180-113974-2

Date Collected: 11/20/20 12:20

Matrix: Water

Date Received: 11/21/20 10:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.54		0.469	0.522	1.00	0.268	pCi/L	12/03/20 10:36	01/11/21 18:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					12/03/20 10:36	01/11/21 18:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.57		0.524	0.733	1.00	0.380	pCi/L	12/03/20 11:21	01/11/21 08:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					12/03/20 11:21	01/11/21 08:38	1
Y Carrier	92.3		40 - 110					12/03/20 11:21	01/11/21 08:38	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Client Sample ID: APMW-9

Lab Sample ID: 180-113974-2

Date Collected: 11/20/20 12:20

Matrix: Water

Date Received: 11/21/20 10:45

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	8.11		0.703	0.900	5.00	0.380	pCi/L		01/13/21 16:55	1

Client Sample ID: APMW-10

Lab Sample ID: 180-113974-3

Date Collected: 11/20/20 11:35

Matrix: Water

Date Received: 11/21/20 10:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.55		0.395	0.419	1.00	0.349	pCi/L	12/03/20 10:36	01/11/21 18:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					12/03/20 10:36	01/11/21 18:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.93		0.376	0.416	1.00	0.423	pCi/L	12/03/20 11:21	01/11/21 08:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					12/03/20 11:21	01/11/21 08:39	1
Y Carrier	86.4		40 - 110					12/03/20 11:21	01/11/21 08:39	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	3.47		0.545	0.590	5.00	0.423	pCi/L		01/13/21 16:55	1

Client Sample ID: APMW-10D

Lab Sample ID: 180-113974-4

Date Collected: 11/20/20 10:50

Matrix: Water

Date Received: 11/21/20 10:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0546	U	0.145	0.145	1.00	0.333	pCi/L	12/03/20 10:36	01/11/21 18:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.2		40 - 110					12/03/20 10:36	01/11/21 18:37	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Client Sample ID: APMW-10D

Lab Sample ID: 180-113974-4

Date Collected: 11/20/20 10:50

Matrix: Water

Date Received: 11/21/20 10:45

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0744	U	0.226	0.226	1.00	0.422	pCi/L	12/03/20 11:21	01/11/21 08:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.2		40 - 110					12/03/20 11:21	01/11/21 08:39	1
Y Carrier	92.3		40 - 110					12/03/20 11:21	01/11/21 08:39	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	-0.129	U	0.269	0.269	5.00	0.422	pCi/L		01/13/21 16:55	1

Client Sample ID: APMW-12

Lab Sample ID: 180-113974-5

Date Collected: 11/20/20 14:30

Matrix: Water

Date Received: 11/21/20 10:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.239	U	0.251	0.252	1.00	0.400	pCi/L	12/04/20 10:47	01/11/21 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.9		40 - 110					12/04/20 10:47	01/11/21 14:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0399	U *	0.253	0.253	1.00	0.464	pCi/L	12/04/20 11:36	01/11/21 08:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.9		40 - 110					12/04/20 11:36	01/11/21 08:42	1
Y Carrier	84.9		40 - 110					12/04/20 11:36	01/11/21 08:42	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	0.199	U	0.356	0.357	5.00	0.464	pCi/L		01/12/21 20:53	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Client Sample ID: DUP-04

Lab Sample ID: 180-113974-6

Date Collected: 11/20/20 10:35

Matrix: Water

Date Received: 11/21/20 10:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.05		0.380	0.392	1.00	0.412	pCi/L	12/04/20 10:47	01/11/21 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		40 - 110					12/04/20 10:47	01/11/21 14:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.81	*	0.375	0.410	1.00	0.409	pCi/L	12/04/20 11:36	01/11/21 08:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		40 - 110					12/04/20 11:36	01/11/21 08:42	1
Y Carrier	86.7		40 - 110					12/04/20 11:36	01/11/21 08:42	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	2.87		0.534	0.567	5.00	0.412	pCi/L		01/12/21 20:53	1

Client Sample ID: FB-02

Lab Sample ID: 180-113974-7

Date Collected: 11/20/20 10:52

Matrix: Water

Date Received: 11/21/20 10:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.254	U	0.213	0.214	1.00	0.527	pCi/L	12/04/20 10:47	01/11/21 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.1		40 - 110					12/04/20 10:47	01/11/21 14:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0341	U *	0.269	0.269	1.00	0.487	pCi/L	12/04/20 11:36	01/11/21 08:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.1		40 - 110					12/04/20 11:36	01/11/21 08:42	1
Y Carrier	85.6		40 - 110					12/04/20 11:36	01/11/21 08:42	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Client Sample ID: FB-02

Date Collected: 11/20/20 10:52

Date Received: 11/21/20 10:45

Lab Sample ID: 180-113974-7

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	-0.288	U	0.343	0.344	5.00	0.527	pCi/L		01/12/21 20:53	1

Client Sample ID: EB-02

Date Collected: 11/20/20 12:45

Date Received: 11/21/20 10:45

Lab Sample ID: 180-113974-8

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	-0.111	U	0.155	0.156	1.00	0.379	pCi/L	12/04/20 10:47	01/11/21 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.5		40 - 110					12/04/20 10:47	01/11/21 14:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0548	U *	0.268	0.268	1.00	0.489	pCi/L	12/04/20 11:36	01/11/21 08:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.5		40 - 110					12/04/20 11:36	01/11/21 08:42	1
Y Carrier	87.5		40 - 110					12/04/20 11:36	01/11/21 08:42	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	-0.166	U	0.310	0.310	5.00	0.489	pCi/L		01/12/21 20:53	1

Client Sample ID: EB-03

Date Collected: 11/20/20 13:55

Date Received: 11/21/20 10:45

Lab Sample ID: 180-113974-9

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	-0.174	U	0.201	0.201	1.00	0.487	pCi/L	12/04/20 10:47	01/11/21 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.9		40 - 110					12/04/20 10:47	01/11/21 14:41	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Client Sample ID: EB-03

Lab Sample ID: 180-113974-9

Date Collected: 11/20/20 13:55

Matrix: Water

Date Received: 11/21/20 10:45

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0592	U *	0.257	0.257	1.00	0.454	pCi/L	12/04/20 11:36	01/11/21 08:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.9		40 - 110					12/04/20 11:36	01/11/21 08:42	1
Y Carrier	84.1		40 - 110					12/04/20 11:36	01/11/21 08:42	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	-0.115	U	0.326	0.326	5.00	0.487	pCi/L		01/12/21 20:53	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-490793/24-A
Matrix: Water
Analysis Batch: 494639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490793

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1731	U	0.236	0.236	1.00	0.396	pCi/L	12/03/20 10:36	01/11/21 18:37	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					12/03/20 10:36	01/11/21 18:37	1
	77.7									

Lab Sample ID: LCS 160-490793/1-A
Matrix: Water
Analysis Batch: 494639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490793

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-226	11.3	10.39		1.35	1.00	0.293	pCi/L	92	75 - 125
Carrier	LCS		Limits						
Ba Carrier	%Yield	LCS Qualifier	40 - 110						
	86.2								

Lab Sample ID: MB 160-490915/23-A
Matrix: Water
Analysis Batch: 494651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490915

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.03043	U	0.160	0.160	1.00	0.336	pCi/L	12/04/20 10:47	01/11/21 20:19	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					12/04/20 10:47	01/11/21 20:19	1
	89.1									

Lab Sample ID: LCS 160-490915/1-A
Matrix: Water
Analysis Batch: 494651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490915

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-226	11.3	11.44		1.54	1.00	0.455	pCi/L	101	75 - 125
Carrier	LCS		Limits						
Ba Carrier	%Yield	LCS Qualifier	40 - 110						
	70.2								

Lab Sample ID: LCSD 160-490915/2-A
Matrix: Water
Analysis Batch: 494651

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 490915

Analyte	Spike Added	LCSD	LCSD	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER
		Result	Qual	Uncert. (2σ+/-)							Limit
Radium-226	11.3	10.92		1.46	1.00	0.424	pCi/L	96	75 - 125	0.18	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCSD 160-490915/2-A
Matrix: Water
Analysis Batch: 494651

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 490915

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	77.4		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-490801/24-A
Matrix: Water
Analysis Batch: 494651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490801

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	-0.1317	U	0.241	0.241	1.00	0.459	pCi/L	12/03/20 11:21	01/11/21 08:39	1

Carrier	MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	77.7		40 - 110	12/03/20 11:21	01/11/21 08:39	1
Y Carrier	85.2		40 - 110	12/03/20 11:21	01/11/21 08:39	1

Lab Sample ID: LCS 160-490801/1-A
Matrix: Water
Analysis Batch: 494650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490801

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	86.2		40 - 110
Y Carrier	87.5		40 - 110

Lab Sample ID: MB 160-490918/23-A
Matrix: Water
Analysis Batch: 494647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490918

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	-0.1410	U	0.234	0.234	1.00	0.444	pCi/L	12/04/20 11:36	01/11/21 08:49	1

Carrier	MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	89.1		40 - 110	12/04/20 11:36	01/11/21 08:49	1
Y Carrier	81.9		40 - 110	12/04/20 11:36	01/11/21 08:49	1

Lab Sample ID: LCS 160-490918/1-A
Matrix: Water
Analysis Batch: 494651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490918

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

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

Lab Sample ID: LCS 160-490918/1-A
Matrix: Water
Analysis Batch: 494651

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490918

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	70.2		40 - 110
Y Carrier	82.2		40 - 110

Lab Sample ID: LCSD 160-490918/2-A
Matrix: Water
Analysis Batch: 494651

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 490918

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
									75 - 125	0.01	1	
Radium-228	7.51	10.19	*	1.23	1.00	0.478	pCi/L	136	75 - 125	0.01	1	

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	77.4		40 - 110
Y Carrier	81.1		40 - 110



QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-113974-2

Rad

Prep Batch: 490793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-1	APMW-6R	Total/NA	Water	PrecSep-21	
180-113974-2	APMW-9	Total/NA	Water	PrecSep-21	
180-113974-3	APMW-10	Total/NA	Water	PrecSep-21	
180-113974-4	APMW-10D	Total/NA	Water	PrecSep-21	
MB 160-490793/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-490793/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 490801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-1	APMW-6R	Total/NA	Water	PrecSep_0	
180-113974-2	APMW-9	Total/NA	Water	PrecSep_0	
180-113974-3	APMW-10	Total/NA	Water	PrecSep_0	
180-113974-4	APMW-10D	Total/NA	Water	PrecSep_0	
MB 160-490801/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-490801/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 490915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-5	APMW-12	Total/NA	Water	PrecSep-21	
180-113974-6	DUP-04	Total/NA	Water	PrecSep-21	
180-113974-7	FB-02	Total/NA	Water	PrecSep-21	
180-113974-8	EB-02	Total/NA	Water	PrecSep-21	
180-113974-9	EB-03	Total/NA	Water	PrecSep-21	
MB 160-490915/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-490915/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-490915/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 490918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-113974-5	APMW-12	Total/NA	Water	PrecSep_0	
180-113974-6	DUP-04	Total/NA	Water	PrecSep_0	
180-113974-7	FB-02	Total/NA	Water	PrecSep_0	
180-113974-8	EB-02	Total/NA	Water	PrecSep_0	
180-113974-9	EB-03	Total/NA	Water	PrecSep_0	
MB 160-490918/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-490918/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-490918/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Part # 156297-435 RRDB EXP 10/21

ORIGIN ID: BIXA (850) 336-0192
RDH ENVIRONMENTAL
5720 DOVE DR
MILTON, FL 32571
UNITED STATES US

SHIP DATE: 20NOV20
ACT WT: 62.20 LB
CAD: 6999600/58FE2121
DIMS: 29x13x13 IN
BILL THIRD PARTY

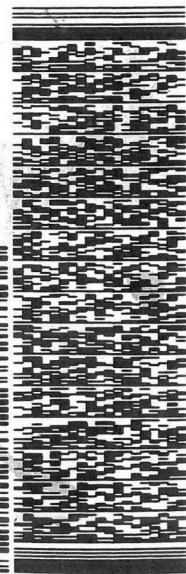
TO TEST AMERICA

301 ALPHA DR

PITTSBURGH PA 15238

(412) 969-6222
REF1

DEPT1



REL# 3786346

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 3991 9609 8984
0201

XO AGCA

15238
PA-US PIT

38 °C

Uncorrected temp
Thermometer ID

CF O Initials B

PT-WI-SR-001 effective 7/26/13



ORIGIN ID: BIXA (850) 336-0192
RDH ENVIRONMENTAL
5720 DOVE DR
MILTON, FL 32571
UNITED STATES US

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BILL

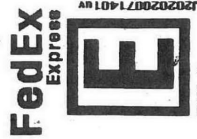
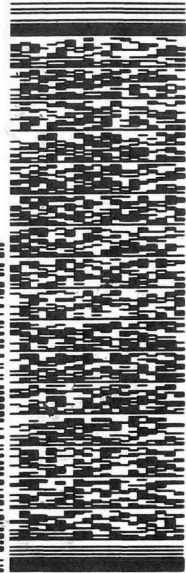
TO TEST AMERICA

301 ALPHA DR

PITTSBURGH PA 15238

(412) 969-6222
REF1

DEPT1



REL# 3786346

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 3991 9613 1211
0201

XO AGCA

15238
PA-US PIT

22 °C

Uncorrected temp
Thermometer ID

CF O Initials B

PT-WI-SR-001 effective 7/26/13



180-113974 Waybill

R 639

12:00

1211

1121

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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-113974-2

Login Number: 113974

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-113974-2

Login Number: 113974

List Number: 2

Creator: O'Gara, Mallory L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 11/24/20 02:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 400-194965-1
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
12/31/2020 12:29:10 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@Eurofinset.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.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Job ID: 400-194965-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-194965-1

Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-508920 and analytical batch 400-509092 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 6020: CRI recovery outside SOP's criteria (158%). The sample is ND; therefore data is report. (CRI 400-509092/12)

Method 6020: The method blank for preparation batch 400-508920 and analytical batch 400-509092 contained Arsenic above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The post digestion spike % recovery for Calcium, Barium and Magnesium associated with batch 400-509092 was outside of control limits. The associated sample is: (400-194806-F-27-A PDS).

Method 6020: The continuing calibration verification (CCV) associated with batch 400-509092 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 400-509092/144).

Method 6020: The continuing calibration verification (CCV) associated with batch 400-509241 recovered above the upper control limit for Beryllium, Dissolved The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 400-509241/71).

Method 6020: CRI recovery outside SOP's criteria (167%). The sample is ND; therefore data is report. (CRI 400-509632/12)

Method 6020: The continuing calibration verification (CCV) associated with batch 400-509632 recovered above the upper control limit for Boron .The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 400-509632/38) and (CCV 400-509632/50).

Method 6020: The continuing calibration verification (CCV) associated with batch 400-509632 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 associated samples are impacted: (CCV 400-509632/149) and (CCV 400-509632/156).

Method 6020: The ICV for batch 400-509890 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RSD for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly. (ICV 400-509890/14)

Method 6020: The ICV for batch 400-510079 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RSD for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly. (ICV 400-510079/13)

Method 6020: The method blank/ICB/CCB for preparation batch 400-509021 and analytical batch 400-510079 contained Arsenic above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-509021 and analytical batch 400-510079 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 6020: CRI recovery outside SOP's criteria (Arsenic, 229% and Thallium, 223%). The sample is either ND, below the PQL/RL or 10x the CRI; therefore data is report. (CRI 400-510209/11)

Method 6020: The following samples were diluted due to the nature of the sample matrix: SW-16-1.5FT-FF (400-194965-40),

Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Job ID: 400-194965-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

SW-17-1FT-FF (400-194965-42), DUP-01 (400-194965-45), DUP-01-FF (400-194965-46), DUP-02 (400-194965-47), DUP-02-FF (400-194965-48), DUP-03 (400-194965-49), DUP-03-FF (400-194965-50), (400-195090-D-1-A ^200), (400-195090-D-1-B MS ^200) and (400-195090-D-1-C MSD ^200). Elevated reporting limits (RLs) are provided.

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-508778 and analytical batch 400-510349 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 6020: The continuing calibration verification (CCV) associated with batch 400-510349 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 associated sample is impacted: (CCV 400-510349/203).

Method 6020: The method blank for preparation batch 400-508778 and analytical batch 400-510349 contained Calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-510664 and analytical batch 400-512204 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 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-508722 and analytical batch 400-508948 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

General Chemistry

Method SM 2320B: Reanalysis of the following samples were performed outside of the analytical holding time due to QC failures in the original batch: SW-16-1.5FT-FF (400-194965-40), SW-17-1FT (400-194965-41), SW-17-1FT-FF (400-194965-42), EB-01 (400-194965-43), EB-02 (400-194965-44), DUP-01 (400-194965-45), DUP-01-FF (400-194965-46), DUP-02 (400-194965-47), DUP-02-FF (400-194965-48), DUP-03 (400-194965-49) and DUP-03-FF (400-194965-50).

Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-508839 was outside control limits. Sample non-homogeneity is suspected.

Method SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-510672 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 SM 4500 F C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (400-194929-C-3 MS) and (400-194929-C-3 MSD). Elevated reporting limits (RLs) are provided.

Method SM 4500 F C: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for analytical batch 400-510707 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method SM 4500 F C: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for analytical batch 400-510745 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-510136 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 SM 4500 Cl- E: Due to the concentration of chlorides in the parent sample the MS/MSD was diluted after the spike. The spike amount was adjusted by the dilution factor. (400-194965-B-5 MS) and (400-194965-B-5 MSD)

Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Job ID: 400-194965-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

Method SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-510197 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 SM 4500 Cl- E: Due to the concentration of chlorides in the parent sample the MS/MSD was diluted after the spike. The spike amount was adjusted by the dilution factor. (400-194965-B-15 MS), (400-194965-B-15 MSD), (400-194965-B-33 MS) and (400-194965-B-33 MSD)

Method SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: SW-1-1FT (400-194965-1), SW-1-1FT-FF (400-194965-2), SW-1-7FT (400-194965-3), SW-1-7FT-FF (400-194965-4), SW-2-1FT (400-194965-5), SW-2-1FT-FF (400-194965-6), SW-2-7FT (400-194965-7), SW-2-7FT-FF (400-194965-8), SW-3-1FT (400-194965-9), SW-3-1FT-FF (400-194965-10), SW-3-4FT (400-194965-11), SW-3-4FT-FF (400-194965-12), SW-4-1.5FT (400-194965-13), SW-4-1.5FT-FF (400-194965-14), (400-194965-B-5 MS), (400-194965-B-5 MSD), SW-5-1FT (400-194965-15), SW-5-1FT-FF (400-194965-16), SW-5-13FT (400-194965-17), SW-5-13FT-FF (400-194965-18), SW-6-1FT (400-194965-19), SW-6-1FT-FF (400-194965-20), SW-6-9.5FT (400-194965-21), SW-6-9.5FT-FF (400-194965-22), SW-9-1FT (400-194965-23), SW-9-1FT-FF (400-194965-24), SW-9-4FT (400-194965-25), SW-9-4FT-FF (400-194965-26), SW-10-2FT (400-194965-27), SW-10-2FT-FF (400-194965-28), SW-11-1FT (400-194965-29), SW-11-1FT-FF (400-194965-30), SW-12-1FT (400-194965-31), SW-12-1FT-FF (400-194965-32), SW-13-1FT (400-194965-33), SW-13-1FT-FF (400-194965-34), (400-194965-B-15 MS), (400-194965-B-15 MSD), (400-194965-B-33 MS), (400-194965-B-33 MSD), SW-5-13FT (400-194965-17), SW-14-1.5FT (400-194965-35), SW-14-1.5FT-FF (400-194965-36), SW-15-1.5FT (400-194965-37), SW-15-1.5FT-FF (400-194965-38), SW-16-1.5FT (400-194965-39), SW-16-1.5FT-FF (400-194965-40), SW-17-1FT (400-194965-41), SW-17-1FT-FF (400-194965-42), DUP-01 (400-194965-45), DUP-01-FF (400-194965-46), DUP-02 (400-194965-47), DUP-02-FF (400-194965-48), DUP-03 (400-194965-49) and DUP-03-FF (400-194965-50). Elevated reporting limits (RLs) are provided.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-510568 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 SM 4500 SO4 E: The sample duplicate (DUP) precision for analytical batch 400-510568 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method SM 4500 SO4 E: Due to the high concentration of Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 400-510572 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: SW-1-1FT (400-194965-1), SW-1-1FT-FF (400-194965-2), SW-1-7FT (400-194965-3), SW-1-7FT-FF (400-194965-4), SW-2-1FT (400-194965-5), SW-2-1FT-FF (400-194965-6), SW-2-7FT (400-194965-7), SW-2-7FT-FF (400-194965-8), SW-3-1FT (400-194965-9), SW-3-1FT-FF (400-194965-10), SW-3-4FT (400-194965-11), SW-3-4FT-FF (400-194965-12), SW-4-1.5FT (400-194965-13), SW-4-1.5FT-FF (400-194965-14), SW-5-1FT (400-194965-15), SW-5-1FT-FF (400-194965-16), SW-5-13FT (400-194965-17), SW-5-13FT-FF (400-194965-18), SW-6-1FT (400-194965-19), SW-6-1FT-FF (400-194965-20), SW-6-9.5FT (400-194965-21), SW-6-9.5FT-FF (400-194965-22), SW-9-1FT (400-194965-23), SW-9-1FT-FF (400-194965-24), SW-9-4FT (400-194965-25), SW-9-4FT-FF (400-194965-26), SW-10-2FT (400-194965-27), SW-10-2FT-FF (400-194965-28), SW-11-1FT (400-194965-29), SW-11-1FT-FF (400-194965-30), SW-12-1FT (400-194965-31), SW-12-1FT-FF (400-194965-32), SW-13-1FT (400-194965-33), SW-13-1FT-FF (400-194965-34), SW-14-1.5FT (400-194965-35), SW-14-1.5FT-FF (400-194965-36), SW-15-1.5FT (400-194965-37), SW-15-1.5FT-FF (400-194965-38), SW-16-1.5FT (400-194965-39), SW-16-1.5FT-FF (400-194965-40), SW-17-1FT (400-194965-41), SW-17-1FT-FF (400-194965-42), DUP-01 (400-194965-45), DUP-01-FF (400-194965-46), DUP-02 (400-194965-47), DUP-02-FF (400-194965-48), DUP-03 (400-194965-49) and DUP-03-FF (400-194965-50). Elevated reporting limits (RLs) are provided.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-510574 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 SM 4500 SO4 E: Due to the concentration of sulfates in the parent sample the MS/MSD was diluted after the spike. The spike amount was adjusted by the dilution factor. (400-195090-A-1 MS) and (400-195090-A-1 MSD)

Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Job ID: 400-194965-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

Method SM 4500 SO4 E: Due to the concentration of sulfates in the parent sample the MS/MSD was diluted after the spike. The spike amount was adjusted by the dilution factor. (400-194965-B-25 MS) and (400-194965-B-25 MSD)

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Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL PEN
SM 2320B	Alkalinity	SM	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN
Field Sampling	Field Sampling	EPA	TAL PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-194965-1	SW-1-1FT	Water	10/26/20 16:12	10/27/20 08:35	
400-194965-2	SW-1-1FT-FF	Water	10/26/20 16:32	10/27/20 08:35	
400-194965-3	SW-1-7FT	Water	10/26/20 16:45	10/27/20 08:35	
400-194965-4	SW-1-7FT-FF	Water	10/26/20 16:52	10/27/20 08:35	
400-194965-5	SW-2-1FT	Water	10/26/20 15:15	10/27/20 08:35	
400-194965-6	SW-2-1FT-FF	Water	10/26/20 15:30	10/27/20 08:35	
400-194965-7	SW-2-7FT	Water	10/26/20 15:45	10/27/20 08:35	
400-194965-8	SW-2-7FT-FF	Water	10/26/20 15:55	10/27/20 08:35	
400-194965-9	SW-3-1FT	Water	10/26/20 08:14	10/27/20 08:35	
400-194965-10	SW-3-1FT-FF	Water	10/26/20 08:24	10/27/20 08:35	
400-194965-11	SW-3-4FT	Water	10/26/20 08:51	10/27/20 08:35	
400-194965-12	SW-3-4FT-FF	Water	10/26/20 09:01	10/27/20 08:35	
400-194965-13	SW-4-1.5FT	Water	10/26/20 12:05	10/27/20 08:35	
400-194965-14	SW-4-1.5FT-FF	Water	10/26/20 12:15	10/27/20 08:35	
400-194965-15	SW-5-1FT	Water	10/26/20 08:35	10/27/20 08:35	
400-194965-16	SW-5-1FT-FF	Water	10/26/20 09:05	10/27/20 08:35	
400-194965-17	SW-5-13FT	Water	10/26/20 09:25	10/27/20 08:35	
400-194965-18	SW-5-13FT-FF	Water	10/26/20 09:45	10/27/20 08:35	
400-194965-19	SW-6-1FT	Water	10/26/20 10:10	10/27/20 08:35	
400-194965-20	SW-6-1FT-FF	Water	10/26/20 10:20	10/27/20 08:35	
400-194965-21	SW-6-9.5FT	Water	10/26/20 10:30	10/27/20 08:35	
400-194965-22	SW-6-9.5FT-FF	Water	10/26/20 10:40	10/27/20 08:35	
400-194965-23	SW-9-1FT	Water	10/26/20 11:10	10/27/20 08:35	
400-194965-24	SW-9-1FT-FF	Water	10/26/20 11:20	10/27/20 08:35	
400-194965-25	SW-9-4FT	Water	10/26/20 11:30	10/27/20 08:35	
400-194965-26	SW-9-4FT-FF	Water	10/26/20 11:40	10/27/20 08:35	
400-194965-27	SW-10-2FT	Water	10/26/20 12:00	10/27/20 08:35	
400-194965-28	SW-10-2FT-FF	Water	10/26/20 12:10	10/27/20 08:35	
400-194965-29	SW-11-1FT	Water	10/26/20 13:00	10/27/20 08:35	
400-194965-30	SW-11-1FT-FF	Water	10/26/20 13:10	10/27/20 08:35	
400-194965-31	SW-12-1FT	Water	10/26/20 13:15	10/27/20 08:35	
400-194965-32	SW-12-1FT-FF	Water	10/26/20 13:25	10/27/20 08:35	
400-194965-33	SW-13-1FT	Water	10/26/20 13:40	10/27/20 08:35	
400-194965-34	SW-13-1FT-FF	Water	10/26/20 13:50	10/27/20 08:35	
400-194965-35	SW-14-1.5FT	Water	10/26/20 11:05	10/27/20 08:35	
400-194965-36	SW-14-1.5FT-FF	Water	10/26/20 11:15	10/27/20 08:35	
400-194965-37	SW-15-1.5FT	Water	10/26/20 11:35	10/27/20 08:35	
400-194965-38	SW-15-1.5FT-FF	Water	10/26/20 11:45	10/27/20 08:35	
400-194965-39	SW-16-1.5FT	Water	10/26/20 10:20	10/27/20 08:35	
400-194965-40	SW-16-1.5FT-FF	Water	10/26/20 10:30	10/27/20 08:35	
400-194965-41	SW-17-1FT	Water	10/26/20 09:27	10/27/20 08:35	
400-194965-42	SW-17-1FT-FF	Water	10/26/20 09:37	10/27/20 08:35	
400-194965-43	EB-01	Water	10/26/20 07:05	10/27/20 08:35	
400-194965-44	EB-02	Water	10/26/20 16:00	10/27/20 08:35	
400-194965-45	DUP-01	Water	10/26/20 07:35	10/27/20 08:35	
400-194965-46	DUP-01-FF	Water	10/26/20 08:05	10/27/20 08:35	
400-194965-47	DUP-02	Water	10/26/20 13:05	10/27/20 08:35	
400-194965-48	DUP-02-FF	Water	10/26/20 13:15	10/27/20 08:35	
400-194965-49	DUP-03	Water	10/26/20 15:12	10/27/20 08:35	
400-194965-50	DUP-03-FF	Water	10/26/20 15:32	10/27/20 08:35	

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-1-1FT

Lab Sample ID: 400-194965-1

Date Collected: 10/26/20 16:12

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 21:23	25
Arsenic	0.00195	U	0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 21:23	25
Barium	0.0903		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 15:44	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 21:23	25
Boron	1.65		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 15:44	25
Cadmium	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 21:23	25
Calcium	111		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 21:23	25
Chromium	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 21:23	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 21:23	25
Lead	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 21:23	25
Lithium	0.0563		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 15:44	25
Molybdenum	0.0225	U	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 21:23	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 21:23	25
Thallium	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 15:44	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/28/20 09:47	10/28/20 14:21	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1590		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 21:23	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	50.8		1.00	0.500	mg/L			11/09/20 13:03	1
Bicarbonate Alkalinity as CaCO3	50.8		1.00	0.500	mg/L			11/09/20 13:03	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 13:03	1
Total Dissolved Solids	10800		250	250	mg/L			10/30/20 17:13	1
Chloride	4350		200	140	mg/L			11/10/20 13:29	100
Fluoride	0.280		0.100	0.0320	mg/L			11/13/20 14:52	1
Sulfate	739		500	140	mg/L			11/12/20 19:27	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.93				SU			10/26/20 16:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-1-1FT-FF

Lab Sample ID: 400-194965-2

Date Collected: 10/26/20 16:32

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 21:28	25
Arsenic, Dissolved	0.00683		0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 21:28	25
Barium, Dissolved	0.0655		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 15:49	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 21:28	25
Boron, Dissolved	1.18		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 15:49	25
Cadmium, Dissolved	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 21:28	25
Calcium, Dissolved	113		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 21:28	25
Chromium, Dissolved	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 21:28	25
Cobalt, Dissolved	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 21:28	25
Lead, Dissolved	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 21:28	25
Lithium, Dissolved	0.0218	J F1	0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 15:49	25
Molybdenum, Dissolved	0.0225	U	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 21:28	25
Selenium, Dissolved	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 21:28	25
Thallium, Dissolved	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 15:49	25

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/28/20 09:47	10/28/20 14:23	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1620		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 21:28	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	68.0		1.00	0.500	mg/L			11/09/20 13:08	1
Bicarbonate Alkalinity as CaCO3, Dissolved	68.0		1.00	0.500	mg/L			11/09/20 13:08	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 13:08	1
Total Dissolved Solids	10500		250	250	mg/L			10/30/20 17:13	1
Chloride, Dissolved	4380		200	140	mg/L			11/10/20 13:29	100
Fluoride, Dissolved	0.270		0.100	0.0320	mg/L			11/13/20 14:54	1
Sulfate, Dissolved	732		500	140	mg/L			11/12/20 19:27	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.93				SU			10/26/20 16:32	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-1-7FT

Lab Sample ID: 400-194965-3

Date Collected: 10/26/20 16:45

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 21:45	25
Arsenic	0.00968		0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 21:45	25
Barium	0.0640		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 16:04	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 21:45	25
Boron	1.34		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 16:04	25
Cadmium	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 21:45	25
Calcium	121		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 21:45	25
Chromium	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 21:45	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 21:45	25
Lead	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 21:45	25
Lithium	0.0506		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 16:04	25
Molybdenum	0.0225	U	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 21:45	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 21:45	25
Thallium	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 16:04	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/28/20 09:47	10/28/20 14:25	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1750		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 21:45	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	54.0		1.00	0.500	mg/L			11/09/20 13:14	1
Bicarbonate Alkalinity as CaCO3	54.0		1.00	0.500	mg/L			11/09/20 13:14	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 13:14	1
Total Dissolved Solids	10400		250	250	mg/L			10/30/20 17:13	1
Chloride	4620		200	140	mg/L			11/10/20 13:29	100
Fluoride	0.270		0.100	0.0320	mg/L			11/13/20 14:57	1
Sulfate	785		500	140	mg/L			11/12/20 19:27	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.86				SU			10/26/20 16:45	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-1-7FT-FF

Lab Sample ID: 400-194965-4

Date Collected: 10/26/20 16:52

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 21:51	25
Arsenic, Dissolved	0.00740		0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 21:51	25
Barium, Dissolved	0.0651		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 16:10	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 21:51	25
Boron, Dissolved	1.36		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 16:10	25
Cadmium, Dissolved	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 21:51	25
Calcium, Dissolved	119		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 21:51	25
Chromium, Dissolved	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 21:51	25
Cobalt, Dissolved	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 21:51	25
Lead, Dissolved	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 21:51	25
Lithium, Dissolved	0.0420		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 16:10	25
Molybdenum, Dissolved	0.0225	U	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 21:51	25
Selenium, Dissolved	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 21:51	25
Thallium, Dissolved	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 16:10	25

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/28/20 09:47	10/28/20 14:27	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1730		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 21:51	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	48.6		1.00	0.500	mg/L			11/09/20 13:33	1
Bicarbonate Alkalinity as CaCO3, Dissolved	48.6		1.00	0.500	mg/L			11/09/20 13:33	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 13:33	1
Total Dissolved Solids	9700		250	250	mg/L			10/30/20 17:13	1
Chloride, Dissolved	4600		200	140	mg/L			11/10/20 13:29	100
Fluoride, Dissolved	0.300		0.100	0.0320	mg/L			11/13/20 15:00	1
Sulfate, Dissolved	759		500	140	mg/L			11/12/20 19:31	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.86				SU			10/26/20 16:52	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-2-1FT

Lab Sample ID: 400-194965-5

Date Collected: 10/26/20 15:15

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 21:57	25
Arsenic	0.0100		0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 21:57	25
Barium	0.0641		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 16:15	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 21:57	25
Boron	1.23		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 16:15	25
Cadmium	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 21:57	25
Calcium	108		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 21:57	25
Chromium	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 21:57	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 21:57	25
Lead	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 21:57	25
Lithium	0.0527		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 16:15	25
Molybdenum	0.0225	U	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 21:57	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 21:57	25
Thallium	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 16:15	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/28/20 09:47	10/28/20 14:28	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1570		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 21:57	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	61.8		1.00	0.500	mg/L			11/09/20 13:44	1
Bicarbonate Alkalinity as CaCO3	61.8		1.00	0.500	mg/L			11/09/20 13:44	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 13:44	1
Total Dissolved Solids	9600		250	250	mg/L			10/30/20 17:13	1
Chloride	4420		200	140	mg/L			11/10/20 13:29	100
Fluoride	0.270		0.100	0.0320	mg/L			11/13/20 15:02	1
Sulfate	723		500	140	mg/L			11/12/20 19:31	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.16				SU			10/26/20 15:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-2-1FT-FF

Lab Sample ID: 400-194965-6

Date Collected: 10/26/20 15:30

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 22:02	25
Arsenic, Dissolved	0.00728		0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 22:02	25
Barium, Dissolved	0.0640		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 16:20	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 22:02	25
Boron, Dissolved	1.17		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 16:20	25
Cadmium, Dissolved	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 22:02	25
Calcium, Dissolved	110		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 22:02	25
Chromium, Dissolved	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 22:02	25
Cobalt, Dissolved	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 22:02	25
Lead, Dissolved	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 22:02	25
Lithium, Dissolved	0.0181	J	0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 16:20	25
Molybdenum, Dissolved	0.0225	U	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 22:02	25
Selenium, Dissolved	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 22:02	25
Thallium, Dissolved	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 16:20	25

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/28/20 09:47	10/28/20 14:30	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1620		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 22:02	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	50.8		1.00	0.500	mg/L			11/09/20 13:50	1
Bicarbonate Alkalinity as CaCO3, Dissolved	50.8		1.00	0.500	mg/L			11/09/20 13:50	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 13:50	1
Total Dissolved Solids	10300		250	250	mg/L			10/30/20 17:13	1
Chloride, Dissolved	4510		200	140	mg/L			11/10/20 13:36	100
Fluoride, Dissolved	0.270		0.100	0.0320	mg/L			11/13/20 15:05	1
Sulfate, Dissolved	701		500	140	mg/L			11/12/20 19:31	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.16				SU			10/26/20 15:30	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-2-7FT

Lab Sample ID: 400-194965-7

Date Collected: 10/26/20 15:45

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 22:08	25
Arsenic	0.00195	U	0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 22:08	25
Barium	0.0653		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 16:35	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 22:08	25
Boron	1.34		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 16:35	25
Cadmium	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 22:08	25
Calcium	125		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 22:08	25
Chromium	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 22:08	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 22:08	25
Lead	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 22:08	25
Lithium	0.0525		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 16:35	25
Molybdenum	0.0225	U	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 22:08	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 22:08	25
Thallium	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 16:35	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/28/20 09:47	10/28/20 14:32	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1790		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 22:08	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	54.3		1.00	0.500	mg/L			11/09/20 13:57	1
Bicarbonate Alkalinity as CaCO3	54.3		1.00	0.500	mg/L			11/09/20 13:57	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 13:57	1
Total Dissolved Solids	9300		250	250	mg/L			10/30/20 17:13	1
Chloride	4690		200	140	mg/L			11/10/20 13:36	100
Fluoride	0.310		0.100	0.0320	mg/L			11/13/20 15:07	1
Sulfate	795		500	140	mg/L			11/12/20 19:31	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.44				SU			10/26/20 15:45	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-2-7FT-FF

Lab Sample ID: 400-194965-8

Date Collected: 10/26/20 15:55

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 22:14	25
Arsenic, Dissolved	0.00195	U	0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 22:14	25
Barium, Dissolved	0.0638		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 16:40	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 22:14	25
Boron, Dissolved	1.31		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 16:40	25
Cadmium, Dissolved	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 22:14	25
Calcium, Dissolved	121		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 22:14	25
Chromium, Dissolved	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 22:14	25
Cobalt, Dissolved	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 22:14	25
Lead, Dissolved	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 22:14	25
Lithium, Dissolved	0.0391		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 16:40	25
Molybdenum, Dissolved	0.0225	U	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 22:14	25
Selenium, Dissolved	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 22:14	25
Thallium, Dissolved	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 16:40	25

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/28/20 09:47	10/28/20 14:34	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1780		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 22:14	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	56.1		1.00	0.500	mg/L			11/09/20 14:04	1
Bicarbonate Alkalinity as CaCO3, Dissolved	56.1		1.00	0.500	mg/L			11/09/20 14:04	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 14:04	1
Total Dissolved Solids	10100		250	250	mg/L			10/30/20 17:13	1
Chloride, Dissolved	4600		200	140	mg/L			11/10/20 13:39	100
Fluoride, Dissolved	0.290		0.100	0.0320	mg/L			11/13/20 15:46	1
Sulfate, Dissolved	810		500	140	mg/L			11/12/20 19:39	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.44				SU			10/26/20 15:55	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-3-1FT

Lab Sample ID: 400-194965-9

Date Collected: 10/26/20 08:14

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 22:31	25
Arsenic	0.0117		0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 22:31	25
Barium	0.0676		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 16:46	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 22:31	25
Boron	1.29		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 16:46	25
Cadmium	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 22:31	25
Calcium	117		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 22:31	25
Chromium	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 22:31	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 22:31	25
Lead	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 22:31	25
Lithium	0.0515		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 16:46	25
Molybdenum	0.0225	U ^	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 22:31	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 22:31	25
Thallium	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 16:46	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/28/20 09:47	10/28/20 14:36	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1700		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 22:31	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	59.7		1.00	0.500	mg/L			11/09/20 14:10	1
Bicarbonate Alkalinity as CaCO3	59.7		1.00	0.500	mg/L			11/09/20 14:10	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 14:10	1
Total Dissolved Solids	11400		250	250	mg/L			10/30/20 17:13	1
Chloride	4590		200	140	mg/L			11/10/20 13:39	100
Fluoride	0.260		0.100	0.0320	mg/L			11/13/20 15:54	1
Sulfate	755		500	140	mg/L			11/12/20 19:39	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.35				SU			10/26/20 08:14	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-3-1FT-FF

Lab Sample ID: 400-194965-10

Date Collected: 10/26/20 08:24

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 22:36	25
Arsenic, Dissolved	0.00438	J	0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 22:36	25
Barium, Dissolved	0.0684		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 16:51	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 22:36	25
Boron, Dissolved	1.34		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 16:51	25
Cadmium, Dissolved	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 22:36	25
Calcium, Dissolved	120		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 22:36	25
Chromium, Dissolved	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 22:36	25
Cobalt, Dissolved	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 22:36	25
Lead, Dissolved	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 22:36	25
Lithium, Dissolved	0.0512		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 16:51	25
Molybdenum, Dissolved	0.0225	U ^	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 22:36	25
Selenium, Dissolved	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 22:36	25
Thallium, Dissolved	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 16:51	25

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 11:52	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1720		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 22:36	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	52.0		1.00	0.500	mg/L			11/09/20 14:17	1
Bicarbonate Alkalinity as CaCO3, Dissolved	52.0		1.00	0.500	mg/L			11/09/20 14:17	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 14:17	1
Total Dissolved Solids	9500		250	250	mg/L			10/30/20 17:13	1
Chloride, Dissolved	4500		200	140	mg/L			11/10/20 13:39	100
Fluoride, Dissolved	0.270		0.100	0.0320	mg/L			11/13/20 15:57	1
Sulfate, Dissolved	764		500	140	mg/L			11/12/20 19:39	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.35				SU			10/26/20 08:24	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-3-4FT

Lab Sample ID: 400-194965-11

Date Collected: 10/26/20 08:51

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 22:42	25
Arsenic	0.00195	U	0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 22:42	25
Barium	0.0710		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 16:56	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 22:42	25
Boron	1.39		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 16:56	25
Cadmium	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 22:42	25
Calcium	116		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 22:42	25
Chromium	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 22:42	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 22:42	25
Lead	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 22:42	25
Lithium	0.0417		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 16:56	25
Molybdenum	0.0225	U ^	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 22:42	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 22:42	25
Thallium	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 16:56	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 11:54	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1690		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 22:42	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	58.5		1.00	0.500	mg/L			11/09/20 14:24	1
Bicarbonate Alkalinity as CaCO3	58.5		1.00	0.500	mg/L			11/09/20 14:24	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 14:24	1
Total Dissolved Solids	9800		250	250	mg/L			10/30/20 17:13	1
Chloride	4550		200	140	mg/L			11/10/20 13:39	100
Fluoride	0.300		0.100	0.0320	mg/L			11/13/20 16:00	1
Sulfate	766		500	140	mg/L			11/12/20 19:39	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.45				SU			10/26/20 08:51	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-3-4FT-FF

Lab Sample ID: 400-194965-12

Date Collected: 10/26/20 09:01

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 22:48	25
Arsenic, Dissolved	0.00313	J	0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 22:48	25
Barium, Dissolved	0.0652		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 17:01	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 22:48	25
Boron, Dissolved	1.24		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 17:01	25
Cadmium, Dissolved	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 22:48	25
Calcium, Dissolved	117		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 22:48	25
Chromium, Dissolved	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 22:48	25
Cobalt, Dissolved	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 22:48	25
Lead, Dissolved	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 22:48	25
Lithium, Dissolved	0.0333		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 17:01	25
Molybdenum, Dissolved	0.0225	U ^	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 22:48	25
Selenium, Dissolved	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 22:48	25
Thallium, Dissolved	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 17:01	25

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:00	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1690		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 22:48	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	69.8		1.00	0.500	mg/L			11/09/20 14:29	1
Bicarbonate Alkalinity as CaCO3, Dissolved	69.8		1.00	0.500	mg/L			11/09/20 14:29	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 14:29	1
Total Dissolved Solids	9700		250	250	mg/L			10/30/20 17:13	1
Chloride, Dissolved	4550		200	140	mg/L			11/10/20 13:39	100
Fluoride, Dissolved	0.270		0.100	0.0320	mg/L			11/13/20 16:02	1
Sulfate, Dissolved	795		500	140	mg/L			11/12/20 19:43	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.45				SU			10/26/20 09:01	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-4-1.5FT

Lab Sample ID: 400-194965-13

Date Collected: 10/26/20 12:05

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 22:53	25
Arsenic	0.00433	J B	0.00625	0.00195	mg/L		11/13/20 14:52	11/25/20 17:06	25
Barium	0.0606		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 17:06	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 22:53	25
Boron	0.904		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 17:06	25
Cadmium	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 22:53	25
Calcium	85.7		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 22:53	25
Chromium	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 22:53	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 22:53	25
Lead	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 22:53	25
Lithium	0.0260		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 17:06	25
Molybdenum	0.0225	U ^	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 22:53	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 22:53	25
Thallium	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 17:06	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:02	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1240		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 22:53	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	48.8		1.00	0.500	mg/L			11/09/20 14:34	1
Bicarbonate Alkalinity as CaCO3	48.8		1.00	0.500	mg/L			11/09/20 14:34	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 14:34	1
Total Dissolved Solids	6800		250	250	mg/L			10/30/20 17:13	1
Chloride	3650		200	140	mg/L			11/10/20 13:39	100
Fluoride	0.210		0.100	0.0320	mg/L			11/13/20 16:05	1
Sulfate	544		500	140	mg/L			11/12/20 19:43	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.78				SU			10/26/20 12:05	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-4-1.5FT-FF

Lab Sample ID: 400-194965-14

Date Collected: 10/26/20 12:15

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 22:59	25
Arsenic, Dissolved	0.0110		0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 22:59	25
Barium, Dissolved	0.0600		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 17:11	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 22:59	25
Boron, Dissolved	0.909		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 17:11	25
Cadmium, Dissolved	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 22:59	25
Calcium, Dissolved	86.8		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 22:59	25
Chromium, Dissolved	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 22:59	25
Cobalt, Dissolved	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 22:59	25
Lead, Dissolved	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 22:59	25
Lithium, Dissolved	0.0227	J	0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 17:11	25
Molybdenum, Dissolved	0.0225	U ^	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 22:59	25
Selenium, Dissolved	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 22:59	25
Thallium, Dissolved	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 17:11	25

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:04	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1270		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 22:59	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	53.6		1.00	0.500	mg/L			11/09/20 15:31	1
Bicarbonate Alkalinity as CaCO3, Dissolved	53.6		1.00	0.500	mg/L			11/09/20 15:31	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 15:31	1
Total Dissolved Solids	7200		250	250	mg/L			10/30/20 17:13	1
Chloride, Dissolved	3510		200	140	mg/L			11/10/20 13:45	100
Fluoride, Dissolved	0.210		0.100	0.0320	mg/L			11/13/20 16:07	1
Sulfate, Dissolved	526		500	140	mg/L			11/12/20 19:43	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.78				SU			10/26/20 12:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-5-1FT

Lab Sample ID: 400-194965-15

Date Collected: 10/26/20 08:35

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 23:05	25
Arsenic	0.00455	J	0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 23:05	25
Barium	0.0599		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 17:16	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 23:05	25
Boron	0.546		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 17:16	25
Cadmium	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 23:05	25
Calcium	51.6		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 23:05	25
Chromium	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 23:05	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 23:05	25
Lead	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 23:05	25
Lithium	0.0128	J	0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 17:16	25
Molybdenum	0.0225	U ^	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 23:05	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 23:05	25
Thallium	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 17:16	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:06	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	736		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 23:05	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	34.5		1.00	0.500	mg/L			11/09/20 15:43	1
Bicarbonate Alkalinity as CaCO3	34.5		1.00	0.500	mg/L			11/09/20 15:43	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 15:43	1
Total Dissolved Solids	4180		50.0	50.0	mg/L			10/30/20 17:13	1
Chloride	2410		200	140	mg/L			11/10/20 15:56	100
Fluoride	0.130		0.100	0.0320	mg/L			11/13/20 16:10	1
Sulfate	218	J F1	500	140	mg/L			11/12/20 21:37	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.59				SU			10/26/20 08:35	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-5-1FT-FF

Lab Sample ID: 400-194965-16

Date Collected: 10/26/20 09:05

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 23:10	25
Arsenic, Dissolved	0.00195	U	0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 23:10	25
Barium, Dissolved	0.0602		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 17:22	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 23:10	25
Boron, Dissolved	0.538		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 17:22	25
Cadmium, Dissolved	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 23:10	25
Calcium, Dissolved	52.7		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 23:10	25
Chromium, Dissolved	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 23:10	25
Cobalt, Dissolved	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 23:10	25
Lead, Dissolved	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 23:10	25
Lithium, Dissolved	0.00950	U	0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 17:22	25
Molybdenum, Dissolved	0.0225	U ^	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 23:10	25
Selenium, Dissolved	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 23:10	25
Thallium, Dissolved	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 17:22	25

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:08	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	757		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 23:10	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	31.3		1.00	0.500	mg/L			11/09/20 15:49	1
Bicarbonate Alkalinity as CaCO3, Dissolved	31.3		1.00	0.500	mg/L			11/09/20 15:49	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 15:49	1
Total Dissolved Solids	4140		50.0	50.0	mg/L			10/30/20 17:13	1
Chloride, Dissolved	2440		200	140	mg/L			11/10/20 15:56	100
Fluoride, Dissolved	0.120		0.100	0.0320	mg/L			11/13/20 16:12	1
Sulfate, Dissolved	225	J	500	140	mg/L			11/12/20 21:37	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.59				SU			10/26/20 09:05	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-5-13FT

Lab Sample ID: 400-194965-17

Date Collected: 10/26/20 09:25

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 23:16	25
Arsenic	0.00433	J	0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 23:16	25
Barium	0.0600		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 17:37	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 23:16	25
Boron	1.66		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 17:37	25
Cadmium	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 23:16	25
Calcium	143		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 23:16	25
Chromium	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 23:16	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 23:16	25
Lead	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 23:16	25
Lithium	0.0665		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 17:37	25
Molybdenum	0.0225	U ^	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 23:16	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 23:16	25
Thallium	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 17:37	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:09	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	2060		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 23:16	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	92.5		1.00	0.500	mg/L			11/09/20 15:56	1
Bicarbonate Alkalinity as CaCO3	92.5		1.00	0.500	mg/L			11/09/20 15:56	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 15:56	1
Total Dissolved Solids	12400		1000	1000	mg/L			10/30/20 17:13	1
Chloride	6170		400	280	mg/L			11/11/20 12:41	200
Fluoride	0.330		0.100	0.0320	mg/L			11/13/20 16:15	1
Sulfate	896		500	140	mg/L			11/12/20 21:41	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.14				SU			10/26/20 09:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-5-13FT-FF

Lab Sample ID: 400-194965-18

Date Collected: 10/26/20 09:45

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 23:22	25
Arsenic, Dissolved	0.00268	J	0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 23:22	25
Barium, Dissolved	0.0586		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 17:42	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 23:22	25
Boron, Dissolved	1.54		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 17:42	25
Cadmium, Dissolved	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 23:22	25
Calcium, Dissolved	144		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 23:22	25
Chromium, Dissolved	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 23:22	25
Cobalt, Dissolved	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 23:22	25
Lead, Dissolved	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 23:22	25
Lithium, Dissolved	0.0469		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 17:42	25
Molybdenum, Dissolved	0.0225	U ^	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 23:22	25
Selenium, Dissolved	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 23:22	25
Thallium, Dissolved	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 17:42	25

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:11	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	2040		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 23:22	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	80.5		1.00	0.500	mg/L			11/09/20 16:02	1
Bicarbonate Alkalinity as CaCO3, Dissolved	80.5		1.00	0.500	mg/L			11/09/20 16:02	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 16:02	1
Total Dissolved Solids	12100		250	250	mg/L			10/30/20 16:54	1
Chloride, Dissolved	6180		400	280	mg/L			11/10/20 17:34	200
Fluoride, Dissolved	0.310	F2	0.100	0.0320	mg/L			11/13/20 16:25	1
Sulfate, Dissolved	897		500	140	mg/L			11/12/20 21:41	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.14				SU			10/26/20 09:45	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-6-1FT

Lab Sample ID: 400-194965-19

Date Collected: 10/26/20 10:10

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 23:38	25
Arsenic	0.00603	J	0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 23:38	25
Barium	0.0655		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 17:47	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 23:38	25
Boron	1.00		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 17:47	25
Cadmium	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 23:38	25
Calcium	95.8		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 23:38	25
Chromium	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 23:38	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 23:38	25
Lead	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 23:38	25
Lithium	0.0360		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 17:47	25
Molybdenum	0.0225	U ^	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 23:38	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 23:38	25
Thallium	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 17:47	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:13	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1360		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 23:38	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	52.3		1.00	0.500	mg/L			11/09/20 16:09	1
Bicarbonate Alkalinity as CaCO3	52.3		1.00	0.500	mg/L			11/09/20 16:09	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 16:09	1
Total Dissolved Solids	9300		125	125	mg/L			10/30/20 16:54	1
Chloride	3810		200	140	mg/L			11/10/20 15:59	100
Fluoride	0.230		0.100	0.0320	mg/L			11/13/20 16:34	1
Sulfate	489	J	500	140	mg/L			11/12/20 21:41	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.33				SU			10/26/20 10:10	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-6-1FT-FF

Lab Sample ID: 400-194965-20

Date Collected: 10/26/20 10:20

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00750	U	0.0125	0.00750	mg/L		11/13/20 14:52	11/16/20 23:44	25
Arsenic, Dissolved	0.00385	J	0.00625	0.00195	mg/L		11/13/20 14:52	11/16/20 23:44	25
Barium, Dissolved	0.0676		0.0125	0.00350	mg/L		11/13/20 14:52	11/25/20 17:52	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		11/13/20 14:52	11/16/20 23:44	25
Boron, Dissolved	1.02		0.250	0.0900	mg/L		11/13/20 14:52	11/25/20 17:52	25
Cadmium, Dissolved	0.00140	U	0.0125	0.00140	mg/L		11/13/20 14:52	11/16/20 23:44	25
Calcium, Dissolved	94.8		1.25	0.625	mg/L		11/13/20 14:52	11/16/20 23:44	25
Chromium, Dissolved	0.00500	U	0.0125	0.00500	mg/L		11/13/20 14:52	11/16/20 23:44	25
Cobalt, Dissolved	0.00280	U	0.0125	0.00280	mg/L		11/13/20 14:52	11/16/20 23:44	25
Lead, Dissolved	0.00145	U	0.00625	0.00145	mg/L		11/13/20 14:52	11/16/20 23:44	25
Lithium, Dissolved	0.0327		0.0250	0.00950	mg/L		11/13/20 14:52	11/25/20 17:52	25
Molybdenum, Dissolved	0.0225	U ^	0.0750	0.0225	mg/L		11/13/20 14:52	11/16/20 23:44	25
Selenium, Dissolved	0.00410	U	0.00625	0.00410	mg/L		11/13/20 14:52	11/16/20 23:44	25
Thallium, Dissolved	0.000600	U	0.00250	0.000600	mg/L		11/13/20 14:52	11/25/20 17:52	25

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:15	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1350		30.0	22.8	mg/L		11/13/20 14:52	11/16/20 23:44	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	56.9		1.00	0.500	mg/L			11/03/20 16:26	1
Bicarbonate Alkalinity as CaCO3, Dissolved	56.9		1.00	0.500	mg/L			11/03/20 16:26	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/03/20 16:26	1
Total Dissolved Solids	7650		125	125	mg/L			10/30/20 16:54	1
Chloride, Dissolved	3750		200	140	mg/L			11/10/20 15:59	100
Fluoride, Dissolved	0.0320	U	0.100	0.0320	mg/L			11/13/20 16:37	1
Sulfate, Dissolved	520		500	140	mg/L			11/12/20 21:41	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.33				SU			10/26/20 10:20	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-6-9.5FT

Lab Sample ID: 400-194965-21

Date Collected: 10/26/20 10:30

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/05/20 22:49	5
Arsenic	0.00728		0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 02:22	25
Barium	0.0606		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 11:22	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 11:22	25
Boron	1.54		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 16:07	25
Cadmium	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/05/20 22:49	5
Calcium	162		1.25	0.625	mg/L		10/30/20 13:01	11/11/20 11:22	25
Chromium	0.00103	J	0.00250	0.00100	mg/L		10/30/20 13:01	11/05/20 22:49	5
Cobalt	0.000615	J	0.00250	0.000560	mg/L		10/30/20 13:01	11/05/20 22:49	5
Lead	0.000400	J	0.00125	0.000290	mg/L		10/30/20 13:01	11/05/20 22:49	5
Lithium	0.0601	F1	0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 11:22	25
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/05/20 22:49	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		10/30/20 13:01	11/05/20 22:49	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/05/20 22:49	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:17	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	2050		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 02:22	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	75.8		1.00	0.500	mg/L			11/03/20 16:32	1
Bicarbonate Alkalinity as CaCO3	75.8		1.00	0.500	mg/L			11/03/20 16:32	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/03/20 16:32	1
Total Dissolved Solids	13100		250	250	mg/L			10/30/20 16:54	1
Chloride	6180		400	280	mg/L			11/10/20 17:34	200
Fluoride	0.310		0.100	0.0320	mg/L			11/13/20 16:40	1
Sulfate	948		500	140	mg/L			11/12/20 21:45	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.22				SU			10/26/20 10:30	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-6-9.5FT-FF

Lab Sample ID: 400-194965-22

Date Collected: 10/26/20 10:40

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/05/20 23:09	5
Arsenic, Dissolved	0.00195	U	0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 02:39	25
Barium, Dissolved	0.0594		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 11:41	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 11:41	25
Boron, Dissolved	1.56		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 16:24	25
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/05/20 23:09	5
Calcium, Dissolved	146		1.25	0.625	mg/L		10/30/20 13:01	11/11/20 11:41	25
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/05/20 23:09	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/05/20 23:09	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/05/20 23:09	5
Lithium, Dissolved	0.0414		0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 11:41	25
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/05/20 23:09	5
Selenium, Dissolved	0.000820	U	0.00125	0.000820	mg/L		10/30/20 13:01	11/05/20 23:09	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/05/20 23:09	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:23	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1960		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 02:39	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	72.5		1.00	0.500	mg/L			11/03/20 16:38	1
Bicarbonate Alkalinity as CaCO3, Dissolved	72.5		1.00	0.500	mg/L			11/03/20 16:38	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/03/20 16:38	1
Total Dissolved Solids	13200		250	250	mg/L			10/30/20 16:54	1
Chloride, Dissolved	6180		400	280	mg/L			11/10/20 17:34	200
Fluoride, Dissolved	0.310		0.100	0.0320	mg/L			11/13/20 16:43	1
Sulfate, Dissolved	930		500	140	mg/L			11/12/20 21:45	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.22				SU			10/26/20 10:40	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-9-1FT

Lab Sample ID: 400-194965-23

Date Collected: 10/26/20 11:10

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/05/20 23:13	5
Arsenic	0.00195	U	0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 02:45	25
Barium	0.0707		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 11:48	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 11:48	25
Boron	0.681		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 16:29	25
Cadmium	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/05/20 23:13	5
Calcium	73.0		0.250	0.125	mg/L		10/30/20 13:01	11/05/20 23:13	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/05/20 23:13	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/05/20 23:13	5
Lead	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/05/20 23:13	5
Lithium	0.00950	U	0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 11:48	25
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/05/20 23:13	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		10/30/20 13:01	11/05/20 23:13	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/05/20 23:13	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:25	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	990		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 02:45	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	91.0		1.00	0.500	mg/L			11/03/20 16:44	1
Bicarbonate Alkalinity as CaCO3	91.0		1.00	0.500	mg/L			11/03/20 16:44	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/03/20 16:44	1
Total Dissolved Solids	5740		50.0	50.0	mg/L			10/30/20 16:54	1
Chloride	3000		200	140	mg/L			11/10/20 16:07	100
Fluoride	0.150		0.100	0.0320	mg/L			11/13/20 16:46	1
Sulfate	353	J	500	140	mg/L			11/12/20 21:45	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.45				SU			10/26/20 11:10	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-9-1FT-FF

Lab Sample ID: 400-194965-24

Date Collected: 10/26/20 11:20

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/05/20 23:17	5
Arsenic, Dissolved	0.00195	U	0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 02:50	25
Barium, Dissolved	0.0665		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 11:54	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 11:54	25
Boron, Dissolved	0.720		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 16:35	25
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/05/20 23:17	5
Calcium, Dissolved	71.7		0.250	0.125	mg/L		10/30/20 13:01	11/05/20 23:17	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/05/20 23:17	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/05/20 23:17	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/05/20 23:17	5
Lithium, Dissolved	0.00950	U	0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 11:54	25
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/05/20 23:17	5
Selenium, Dissolved	0.000820	U	0.00125	0.000820	mg/L		10/30/20 13:01	11/05/20 23:17	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/05/20 23:17	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:26	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	984		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 02:50	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	36.0		1.00	0.500	mg/L			11/03/20 16:50	1
Bicarbonate Alkalinity as CaCO3, Dissolved	36.0		1.00	0.500	mg/L			11/03/20 16:50	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/03/20 16:50	1
Total Dissolved Solids	5520		50.0	50.0	mg/L			10/30/20 16:54	1
Chloride, Dissolved	3110		200	140	mg/L			11/10/20 16:07	100
Fluoride, Dissolved	0.180		0.100	0.0320	mg/L			11/13/20 16:49	1
Sulfate, Dissolved	351	J	500	140	mg/L			11/12/20 21:45	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.45				SU			10/26/20 11:20	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-9-4FT

Lab Sample ID: 400-194965-25

Date Collected: 10/26/20 11:30

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/05/20 23:29	5
Arsenic	0.00195	U	0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 02:56	25
Barium	0.0632		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 12:01	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 12:01	25
Boron	0.853		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 16:41	25
Cadmium	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/05/20 23:29	5
Calcium	86.5		0.250	0.125	mg/L		10/30/20 13:01	11/05/20 23:29	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/05/20 23:29	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/05/20 23:29	5
Lead	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/05/20 23:29	5
Lithium	0.0110	J	0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 12:01	25
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/05/20 23:29	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/05/20 23:29	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/05/20 23:29	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:28	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1160		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 02:56	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	48.7		1.00	0.500	mg/L			11/09/20 16:15	1
Bicarbonate Alkalinity as CaCO3	48.7		1.00	0.500	mg/L			11/09/20 16:15	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 16:15	1
Total Dissolved Solids	6950		125	125	mg/L			10/30/20 16:54	1
Chloride	3450		200	140	mg/L			11/10/20 16:10	100
Fluoride	0.190		0.100	0.0320	mg/L			11/13/20 16:52	1
Sulfate	470	J F1	500	140	mg/L			11/12/20 21:51	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.12				SU			10/26/20 11:30	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-9-4FT-FF

Lab Sample ID: 400-194965-26

Date Collected: 10/26/20 11:40

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/05/20 23:33	5
Arsenic, Dissolved	0.00195	U	0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 03:01	25
Barium, Dissolved	0.0634		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 12:07	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 12:07	25
Boron, Dissolved	0.827		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 16:46	25
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/05/20 23:33	5
Calcium, Dissolved	84.9		0.250	0.125	mg/L		10/30/20 13:01	11/05/20 23:33	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/05/20 23:33	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/05/20 23:33	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/05/20 23:33	5
Lithium, Dissolved	0.0281		0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 12:07	25
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/05/20 23:33	5
Selenium, Dissolved	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/05/20 23:33	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/05/20 23:33	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:30	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1140		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 03:01	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	49.1		1.00	0.500	mg/L			11/09/20 16:21	1
Bicarbonate Alkalinity as CaCO3, Dissolved	49.1		1.00	0.500	mg/L			11/09/20 16:21	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 16:21	1
Total Dissolved Solids	7500		125	125	mg/L			10/30/20 16:54	1
Chloride, Dissolved	3520		200	140	mg/L			11/10/20 16:17	100
Fluoride, Dissolved	0.190		0.100	0.0320	mg/L			11/13/20 16:55	1
Sulfate, Dissolved	477	J	500	140	mg/L			11/12/20 21:52	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.12				SU			10/26/20 11:40	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-10-2FT

Lab Sample ID: 400-194965-27

Date Collected: 10/26/20 12:00

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/05/20 23:37	5
Arsenic	0.00843		0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 03:18	25
Barium	0.0682		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 12:27	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 12:27	25
Boron	0.735		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 17:03	25
Cadmium	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/05/20 23:37	5
Calcium	81.5		0.250	0.125	mg/L		10/30/20 13:01	11/05/20 23:37	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/05/20 23:37	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/05/20 23:37	5
Lead	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/05/20 23:37	5
Lithium	0.0388		0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 12:27	25
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/05/20 23:37	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/05/20 23:37	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/05/20 23:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:36	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1130		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 03:18	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	58.2		1.00	0.500	mg/L			11/09/20 16:27	1
Bicarbonate Alkalinity as CaCO3	58.2		1.00	0.500	mg/L			11/09/20 16:27	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 16:27	1
Total Dissolved Solids	6500		125	125	mg/L			10/30/20 16:54	1
Chloride	3320		200	140	mg/L			11/10/20 16:17	100
Fluoride	0.200		0.100	0.0320	mg/L			11/13/20 16:57	1
Sulfate	453	J	500	140	mg/L			11/12/20 21:56	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.20				SU			10/26/20 12:00	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-10-2FT-FF

Lab Sample ID: 400-194965-28

Date Collected: 10/26/20 12:10

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/05/20 23:41	5
Arsenic, Dissolved	0.00283	J	0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 03:24	25
Barium, Dissolved	0.0701		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 12:33	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 12:33	25
Boron, Dissolved	0.799		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 17:09	25
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/05/20 23:41	5
Calcium, Dissolved	82.6		0.250	0.125	mg/L		10/30/20 13:01	11/05/20 23:41	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/05/20 23:41	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/05/20 23:41	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/05/20 23:41	5
Lithium, Dissolved	0.0346		0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 12:33	25
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/05/20 23:41	5
Selenium, Dissolved	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/05/20 23:41	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/05/20 23:41	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:47	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1100		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 03:24	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	43.1		1.00	0.500	mg/L			11/09/20 16:33	1
Bicarbonate Alkalinity as CaCO3, Dissolved	43.1		1.00	0.500	mg/L			11/09/20 16:33	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 16:33	1
Total Dissolved Solids	6650		125	125	mg/L			10/30/20 16:54	1
Chloride, Dissolved	3430		200	140	mg/L			11/10/20 16:10	100
Fluoride, Dissolved	0.180		0.100	0.0320	mg/L			11/13/20 17:36	1
Sulfate, Dissolved	457	J	500	140	mg/L			11/12/20 21:56	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.20				SU			10/26/20 12:10	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-11-1FT

Lab Sample ID: 400-194965-29

Date Collected: 10/26/20 13:00

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/05/20 23:45	5
Arsenic	0.00758		0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 03:30	25
Barium	0.0677		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 12:40	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 12:40	25
Boron	0.692		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 17:14	25
Cadmium	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/05/20 23:45	5
Calcium	77.5		0.250	0.125	mg/L		10/30/20 13:01	11/05/20 23:45	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/05/20 23:45	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/05/20 23:45	5
Lead	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/05/20 23:45	5
Lithium	0.0376		0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 12:40	25
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/05/20 23:45	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/05/20 23:45	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/05/20 23:45	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:49	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1060		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 03:30	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	43.2		1.00	0.500	mg/L			11/09/20 16:52	1
Bicarbonate Alkalinity as CaCO3	43.2		1.00	0.500	mg/L			11/09/20 16:52	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 16:52	1
Total Dissolved Solids	7250		125	125	mg/L			10/30/20 16:54	1
Chloride	3220		200	140	mg/L			11/10/20 16:17	100
Fluoride	0.180		0.100	0.0320	mg/L			11/13/20 17:44	1
Sulfate	398	J	500	140	mg/L			11/12/20 21:56	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.04				SU			10/26/20 13:00	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-11-1FT-FF

Lab Sample ID: 400-194965-30

Date Collected: 10/26/20 13:10

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/05/20 23:49	5
Arsenic, Dissolved	0.00195	U	0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 03:35	25
Barium, Dissolved	0.0663		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 12:46	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 12:46	25
Boron, Dissolved	0.821		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 17:20	25
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/05/20 23:49	5
Calcium, Dissolved	79.8		0.250	0.125	mg/L		10/30/20 13:01	11/05/20 23:49	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/05/20 23:49	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/05/20 23:49	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/05/20 23:49	5
Lithium, Dissolved	0.0216	J	0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 12:46	25
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/05/20 23:49	5
Selenium, Dissolved	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/05/20 23:49	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/05/20 23:49	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:51	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1080		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 03:35	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	39.5		1.00	0.500	mg/L			11/09/20 17:04	1
Bicarbonate Alkalinity as CaCO3, Dissolved	39.5		1.00	0.500	mg/L			11/09/20 17:04	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 17:04	1
Total Dissolved Solids	6350		125	125	mg/L			10/30/20 16:54	1
Chloride, Dissolved	3210		200	140	mg/L			11/10/20 16:10	100
Fluoride, Dissolved	0.190		0.100	0.0320	mg/L			11/13/20 17:47	1
Sulfate, Dissolved	386	J	500	140	mg/L			11/12/20 21:56	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.04				SU			10/26/20 13:10	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-12-1FT

Lab Sample ID: 400-194965-31

Date Collected: 10/26/20 13:15

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/05/20 23:53	5
Arsenic	0.00203	J	0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 03:41	25
Barium	0.0651		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 12:52	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 12:52	25
Boron	0.666		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 17:26	25
Cadmium	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/05/20 23:53	5
Calcium	71.3		0.250	0.125	mg/L		10/30/20 13:01	11/05/20 23:53	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/05/20 23:53	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/05/20 23:53	5
Lead	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/05/20 23:53	5
Lithium	0.0163	J	0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 12:52	25
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/05/20 23:53	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/05/20 23:53	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/05/20 23:53	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:53	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1010		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 03:41	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	41.4		1.00	0.500	mg/L			11/09/20 17:11	1
Bicarbonate Alkalinity as CaCO3	41.4		1.00	0.500	mg/L			11/09/20 17:11	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 17:11	1
Total Dissolved Solids	5360		50.0	50.0	mg/L			10/30/20 16:54	1
Chloride	2940		200	140	mg/L			11/10/20 16:17	100
Fluoride	0.180		0.100	0.0320	mg/L			11/13/20 17:49	1
Sulfate	337	J	500	140	mg/L			11/12/20 22:00	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.11				SU			10/26/20 13:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-12-1FT-FF

Lab Sample ID: 400-194965-32

Date Collected: 10/26/20 13:25

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/05/20 23:57	5
Arsenic, Dissolved	0.00195	U	0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 03:47	25
Barium, Dissolved	0.0633		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 12:59	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 12:59	25
Boron, Dissolved	0.657		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 17:31	25
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/05/20 23:57	5
Calcium, Dissolved	70.3		0.250	0.125	mg/L		10/30/20 13:01	11/05/20 23:57	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/05/20 23:57	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/05/20 23:57	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/05/20 23:57	5
Lithium, Dissolved	0.0239	J	0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 12:59	25
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/05/20 23:57	5
Selenium, Dissolved	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/05/20 23:57	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/05/20 23:57	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:55	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	925		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 03:47	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	39.7		1.00	0.500	mg/L			11/09/20 17:17	1
Bicarbonate Alkalinity as CaCO3, Dissolved	39.7		1.00	0.500	mg/L			11/09/20 17:17	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 17:17	1
Total Dissolved Solids	7260		50.0	50.0	mg/L			10/30/20 16:54	1
Chloride, Dissolved	3000		200	140	mg/L			11/10/20 16:10	100
Fluoride, Dissolved	0.170		0.100	0.0320	mg/L			11/13/20 17:52	1
Sulfate, Dissolved	329	J	500	140	mg/L			11/12/20 22:00	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.11				SU			10/26/20 13:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-13-1FT

Lab Sample ID: 400-194965-33

Date Collected: 10/26/20 13:40

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/06/20 00:01	5
Arsenic	0.00448	J	0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 03:52	25
Barium	0.0602		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 13:05	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 13:05	25
Boron	1.01		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 17:37	25
Cadmium	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/06/20 00:01	5
Calcium	109		0.250	0.125	mg/L		10/30/20 13:01	11/06/20 00:01	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/06/20 00:01	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/06/20 00:01	5
Lead	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/06/20 00:01	5
Lithium	0.0106	J	0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 13:05	25
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/06/20 00:01	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/06/20 00:01	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/06/20 00:01	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:57	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1390		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 03:52	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	51.6		1.00	0.500	mg/L			11/09/20 17:23	1
Bicarbonate Alkalinity as CaCO3	51.6		1.00	0.500	mg/L			11/09/20 17:23	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 17:23	1
Total Dissolved Solids	7900		125	125	mg/L			10/30/20 16:54	1
Chloride	3950		200	140	mg/L			11/10/20 16:07	100
Fluoride	0.230		0.100	0.0320	mg/L			11/13/20 17:55	1
Sulfate	579		500	140	mg/L			11/12/20 22:00	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.79				SU			10/26/20 13:40	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-13-1FT-FF

Lab Sample ID: 400-194965-34

Date Collected: 10/26/20 13:50

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/06/20 00:05	5
Arsenic, Dissolved	0.00225	J	0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 03:58	25
Barium, Dissolved	0.0607		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 13:12	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 13:12	25
Boron, Dissolved	0.975		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 17:43	25
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/06/20 00:05	5
Calcium, Dissolved	105		1.25	0.625	mg/L		10/30/20 13:01	11/11/20 13:12	25
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/06/20 00:05	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/06/20 00:05	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/06/20 00:05	5
Lithium, Dissolved	0.0282		0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 13:12	25
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/06/20 00:05	5
Selenium, Dissolved	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/06/20 00:05	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/06/20 00:05	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:59	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1410		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 03:58	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	58.0		1.00	0.500	mg/L			11/09/20 17:30	1
Bicarbonate Alkalinity as CaCO3, Dissolved	58.0		1.00	0.500	mg/L			11/09/20 17:30	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 17:30	1
Total Dissolved Solids	7750		125	125	mg/L			10/30/20 16:54	1
Chloride, Dissolved	4070		200	140	mg/L			11/10/20 16:10	100
Fluoride, Dissolved	0.240		0.100	0.0320	mg/L			11/13/20 17:57	1
Sulfate, Dissolved	610		500	140	mg/L			11/12/20 22:00	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.79				SU			10/26/20 13:50	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-14-1.5FT

Lab Sample ID: 400-194965-35

Date Collected: 10/26/20 11:05

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/06/20 00:17	5
Arsenic	0.00514		0.00125	0.000390	mg/L		10/30/20 13:01	11/06/20 00:17	5
Barium	0.0629		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 13:18	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 13:18	25
Boron	0.844		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 17:48	25
Cadmium	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/06/20 00:17	5
Calcium	99.7		0.250	0.125	mg/L		10/30/20 13:01	11/06/20 00:17	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/06/20 00:17	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/06/20 00:17	5
Lead	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/06/20 00:17	5
Lithium	0.0129	J	0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 13:18	25
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/06/20 00:17	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/06/20 00:17	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/06/20 00:17	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 13:01	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1380		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 04:04	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	55.9		1.00	0.500	mg/L			11/09/20 17:37	1
Bicarbonate Alkalinity as CaCO3	55.9		1.00	0.500	mg/L			11/09/20 17:37	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 17:37	1
Total Dissolved Solids	7900		125	125	mg/L			10/31/20 21:21	1
Chloride	3780		200	140	mg/L			11/11/20 12:41	100
Fluoride	0.230		0.100	0.0320	mg/L			11/13/20 18:00	1
Sulfate	544		500	140	mg/L			11/12/20 23:53	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.76				SU			10/26/20 11:05	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-14-1.5FT-FF

Lab Sample ID: 400-194965-36

Date Collected: 10/26/20 11:15

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/06/20 00:21	5
Arsenic, Dissolved	0.00302		0.00125	0.000390	mg/L		10/30/20 13:01	11/06/20 00:21	5
Barium, Dissolved	0.0645		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 13:25	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 13:25	25
Boron, Dissolved	0.947		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 17:54	25
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/06/20 00:21	5
Calcium, Dissolved	98.9		0.250	0.125	mg/L		10/30/20 13:01	11/06/20 00:21	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/06/20 00:21	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/06/20 00:21	5
Lead, Dissolved	0.000475	J	0.00125	0.000290	mg/L		10/30/20 13:01	11/06/20 00:21	5
Lithium, Dissolved	0.0167	J	0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 13:25	25
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/06/20 00:21	5
Selenium, Dissolved	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/06/20 00:21	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/06/20 00:21	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 13:02	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1320		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 04:09	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	47.2		1.00	0.500	mg/L			11/09/20 17:43	1
Bicarbonate Alkalinity as CaCO3, Dissolved	47.2		1.00	0.500	mg/L			11/09/20 17:43	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 17:43	1
Total Dissolved Solids	7550		125	125	mg/L			10/31/20 21:21	1
Chloride, Dissolved	3820		200	140	mg/L			11/11/20 12:41	100
Fluoride, Dissolved	0.230		0.100	0.0320	mg/L			11/13/20 18:02	1
Sulfate, Dissolved	559		500	140	mg/L			11/12/20 23:53	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.76				SU			10/26/20 11:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-15-1.5FT

Lab Sample ID: 400-194965-37

Date Collected: 10/26/20 11:35

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/06/20 00:25	5
Arsenic	0.00196		0.00125	0.000390	mg/L		10/30/20 13:01	11/06/20 00:25	5
Barium	0.0602		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 13:44	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 13:44	25
Boron	0.952		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 18:11	25
Cadmium	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/06/20 00:25	5
Calcium	97.0		0.250	0.125	mg/L		10/30/20 13:01	11/06/20 00:25	5
Chromium	0.00284		0.00250	0.00100	mg/L		10/30/20 13:01	11/06/20 00:25	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/06/20 00:25	5
Lead	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/06/20 00:25	5
Lithium	0.0273		0.0250	0.00950	mg/L		10/30/20 13:01	11/13/20 04:26	25
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/06/20 00:25	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/06/20 00:25	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/06/20 00:25	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 13:08	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1290		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 04:26	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	60.6		1.00	0.500	mg/L			11/09/20 17:49	1
Bicarbonate Alkalinity as CaCO3	60.6		1.00	0.500	mg/L			11/09/20 17:49	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 17:49	1
Total Dissolved Solids	7900		125	125	mg/L			10/30/20 16:54	1
Chloride	3750		200	140	mg/L			11/11/20 12:41	100
Fluoride	0.220		0.100	0.0320	mg/L			11/13/20 18:05	1
Sulfate	549		500	140	mg/L			11/12/20 23:53	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.74				SU			10/26/20 11:35	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-15-1.5FT-FF

Lab Sample ID: 400-194965-38

Date Collected: 10/26/20 11:45

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/06/20 00:29	5
Arsenic, Dissolved	0.00334		0.00125	0.000390	mg/L		10/30/20 13:01	11/06/20 00:29	5
Barium, Dissolved	0.0591		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 13:51	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 13:51	25
Boron, Dissolved	0.956		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 18:17	25
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/06/20 00:29	5
Calcium, Dissolved	98.6		0.250	0.125	mg/L		10/30/20 13:01	11/06/20 00:29	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/06/20 00:29	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/06/20 00:29	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/06/20 00:29	5
Lithium, Dissolved	0.00950	U ^	0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 13:51	25
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/06/20 00:29	5
Selenium, Dissolved	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/06/20 00:29	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/06/20 00:29	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 13:10	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1310		30.0	22.8	mg/L		10/30/20 13:01	11/13/20 04:32	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	52.8		1.00	0.500	mg/L			11/09/20 17:56	1
Bicarbonate Alkalinity as CaCO3, Dissolved	52.8		1.00	0.500	mg/L			11/09/20 17:56	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 17:56	1
Total Dissolved Solids	7300		125	125	mg/L			10/30/20 16:54	1
Chloride, Dissolved	3820		200	140	mg/L			11/11/20 12:41	100
Fluoride, Dissolved	0.240	F2	0.100	0.0320	mg/L			11/13/20 18:15	1
Sulfate, Dissolved	541		500	140	mg/L			11/12/20 23:53	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.74				SU			10/26/20 11:45	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-16-1.5FT

Lab Sample ID: 400-194965-39

Date Collected: 10/26/20 10:20

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		10/30/20 13:01	11/06/20 00:33	5
Arsenic	0.00415		0.00125	0.000390	mg/L		10/30/20 13:01	11/06/20 00:33	5
Barium	0.0698		0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 13:57	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 13:57	25
Boron	1.02		0.250	0.0900	mg/L		10/30/20 13:01	11/23/20 18:22	25
Cadmium	0.000280	U	0.00250	0.000280	mg/L		10/30/20 13:01	11/06/20 00:33	5
Calcium	119		1.25	0.625	mg/L		10/30/20 13:01	11/11/20 13:57	25
Chromium	0.00100	U	0.00250	0.00100	mg/L		10/30/20 13:01	11/06/20 00:33	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		10/30/20 13:01	11/06/20 00:33	5
Lead	0.000290	U	0.00125	0.000290	mg/L		10/30/20 13:01	11/06/20 00:33	5
Lithium	0.00102		0.00100	0.000380	mg/L		10/30/20 13:01	11/13/20 04:38	1
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		10/30/20 13:01	11/06/20 00:33	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		10/30/20 13:01	11/06/20 00:33	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		10/30/20 13:01	11/06/20 00:33	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 13:12	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	59.6		1.20	0.913	mg/L		10/30/20 13:01	11/13/20 04:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	51.8	H	1.00	0.500	mg/L			11/16/20 10:17	1
Bicarbonate Alkalinity as CaCO3	51.8	H	1.00	0.500	mg/L			11/16/20 10:17	1
Carbonate Alkalinity as CaCO3	0.500	U H	1.00	0.500	mg/L			11/16/20 10:17	1
Total Dissolved Solids	8900		250	250	mg/L			10/30/20 16:54	1
Chloride	4270		200	140	mg/L			11/11/20 12:41	100
Fluoride	0.250		0.100	0.0320	mg/L			11/13/20 18:23	1
Sulfate	652		500	140	mg/L			11/12/20 23:57	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.71				SU			10/26/20 10:20	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-16-1.5FT-FF

Lab Sample ID: 400-194965-40

Date Collected: 10/26/20 10:30

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		11/02/20 14:44	11/03/20 20:48	5
Arsenic, Dissolved	0.000390	U	0.00125	0.000390	mg/L		11/02/20 14:44	11/03/20 20:48	5
Barium, Dissolved	0.0641		0.00250	0.000700	mg/L		11/02/20 14:44	11/03/20 20:48	5
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		11/02/20 14:44	11/10/20 22:44	25
Boron, Dissolved	1.27		0.250	0.0900	mg/L		11/02/20 14:44	11/10/20 22:44	25
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		11/02/20 14:44	11/03/20 20:48	5
Calcium, Dissolved	106		0.250	0.125	mg/L		11/02/20 14:44	11/03/20 20:48	5
Chromium, Dissolved	0.00147	J	0.00250	0.00100	mg/L		11/02/20 14:44	11/03/20 20:48	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		11/02/20 14:44	11/03/20 20:48	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		11/02/20 14:44	11/03/20 20:48	5
Lithium, Dissolved	0.0481		0.0250	0.00950	mg/L		11/02/20 14:44	11/10/20 22:44	25
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		11/02/20 14:44	11/03/20 20:48	5
Selenium, Dissolved	0.000820	U	0.00125	0.000820	mg/L		11/02/20 14:44	11/10/20 05:22	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		11/02/20 14:44	11/03/20 20:48	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 13:14	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1640		30.0	22.8	mg/L		11/02/20 14:44	11/10/20 05:28	25

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	56.4	H	1.00	0.500	mg/L			11/16/20 10:29	1
Bicarbonate Alkalinity as CaCO3, Dissolved	56.4	H	1.00	0.500	mg/L			11/16/20 10:29	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U H	1.00	0.500	mg/L			11/16/20 10:29	1
Total Dissolved Solids	9000		125	125	mg/L			10/31/20 21:21	1
Chloride, Dissolved	4140		200	140	mg/L			11/11/20 12:49	100
Fluoride, Dissolved	0.260		0.100	0.0320	mg/L			11/13/20 18:25	1
Sulfate, Dissolved	654		500	140	mg/L			11/12/20 23:57	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.71				SU			10/26/20 10:30	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-17-1FT

Lab Sample ID: 400-194965-41

Date Collected: 10/26/20 09:27

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		11/01/20 15:00	11/02/20 22:35	5
Arsenic	0.00357		0.00125	0.000390	mg/L		11/01/20 15:00	11/02/20 22:35	5
Barium	0.0715		0.00250	0.000700	mg/L		11/01/20 15:00	11/02/20 22:35	5
Beryllium	0.000170	U ^	0.00250	0.000170	mg/L		11/01/20 15:00	11/02/20 22:35	5
Boron	1.34		0.250	0.0900	mg/L		11/01/20 15:00	11/08/20 23:05	25
Cadmium	0.000280	U	0.00250	0.000280	mg/L		11/01/20 15:00	11/02/20 22:35	5
Calcium	128		1.25	0.625	mg/L		11/01/20 15:00	11/05/20 17:19	25
Chromium	0.00100	U	0.00250	0.00100	mg/L		11/01/20 15:00	11/02/20 22:35	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		11/01/20 15:00	11/02/20 22:35	5
Lead	0.000290	U	0.00125	0.000290	mg/L		11/01/20 15:00	11/02/20 22:35	5
Lithium	0.0509	B	0.00500	0.00190	mg/L		11/01/20 15:00	11/02/20 22:35	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		11/01/20 15:00	11/02/20 22:35	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		11/01/20 15:00	11/02/20 22:35	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		11/01/20 15:00	11/02/20 22:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 13:16	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1840		30.0	22.8	mg/L		11/01/20 15:00	11/05/20 17:19	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	71.6	H	1.00	0.500	mg/L			11/16/20 10:34	1
Bicarbonate Alkalinity as CaCO3	71.6	H	1.00	0.500	mg/L			11/16/20 10:34	1
Carbonate Alkalinity as CaCO3	0.500	U H	1.00	0.500	mg/L			11/16/20 10:34	1
Total Dissolved Solids	11900		250	250	mg/L			10/31/20 21:21	1
Chloride	4550		200	140	mg/L			11/11/20 12:49	100
Fluoride	0.300		0.100	0.0320	mg/L			11/13/20 18:28	1
Sulfate	716		500	140	mg/L			11/12/20 23:57	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.74				SU			10/26/20 09:27	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-17-1FT-FF

Lab Sample ID: 400-194965-42

Date Collected: 10/26/20 09:37

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		11/02/20 14:44	11/03/20 20:52	5
Arsenic, Dissolved	0.000390	U	0.00125	0.000390	mg/L		11/02/20 14:44	11/03/20 20:52	5
Barium, Dissolved	0.0640		0.00250	0.000700	mg/L		11/02/20 14:44	11/03/20 20:52	5
Beryllium, Dissolved	0.00170	U	0.0250	0.00170	mg/L		11/02/20 14:44	11/10/20 22:50	50
Boron, Dissolved	1.53		0.500	0.180	mg/L		11/02/20 14:44	11/10/20 22:50	50
Cadmium, Dissolved	0.000325	J	0.00250	0.000280	mg/L		11/02/20 14:44	11/03/20 20:52	5
Calcium, Dissolved	141		2.50	1.25	mg/L		11/02/20 14:44	11/10/20 05:41	50
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		11/02/20 14:44	11/03/20 20:52	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		11/02/20 14:44	11/03/20 20:52	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		11/02/20 14:44	11/03/20 20:52	5
Lithium, Dissolved	0.0831		0.0500	0.0190	mg/L		11/02/20 14:44	11/10/20 22:50	50
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		11/02/20 14:44	11/03/20 20:52	5
Selenium, Dissolved	0.000820	U	0.00125	0.000820	mg/L		11/02/20 14:44	11/10/20 05:34	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		11/02/20 14:44	11/03/20 20:52	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 13:18	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	2080		60.0	45.7	mg/L		11/02/20 14:44	11/10/20 05:41	50

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	64.7	H	1.00	0.500	mg/L			11/16/20 10:42	1
Bicarbonate Alkalinity as CaCO3, Dissolved	64.7	H	1.00	0.500	mg/L			11/16/20 10:42	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U H	1.00	0.500	mg/L			11/16/20 10:42	1
Total Dissolved Solids	10300		250	250	mg/L			10/31/20 21:21	1
Chloride, Dissolved	4620		200	140	mg/L			11/11/20 12:49	100
Fluoride, Dissolved	0.270		0.100	0.0320	mg/L			11/13/20 18:31	1
Sulfate, Dissolved	738		500	140	mg/L			11/12/20 23:57	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.74				SU			10/26/20 09:37	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: EB-01

Lab Sample ID: 400-194965-43

Date Collected: 10/26/20 07:05

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		11/01/20 15:00	11/02/20 22:39	5
Arsenic	0.000390	U	0.00125	0.000390	mg/L		11/01/20 15:00	11/02/20 22:39	5
Barium	0.000700	U	0.00250	0.000700	mg/L		11/01/20 15:00	11/02/20 22:39	5
Beryllium	0.000170	U ^	0.00250	0.000170	mg/L		11/01/20 15:00	11/02/20 22:39	5
Boron	0.0180	U	0.0500	0.0180	mg/L		11/01/20 15:00	11/08/20 23:11	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		11/01/20 15:00	11/02/20 22:39	5
Calcium	0.125	U	0.250	0.125	mg/L		11/01/20 15:00	11/02/20 22:39	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		11/01/20 15:00	11/02/20 22:39	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		11/01/20 15:00	11/02/20 22:39	5
Lead	0.000290	U	0.00125	0.000290	mg/L		11/01/20 15:00	11/02/20 22:39	5
Lithium	0.00190	U	0.00500	0.00190	mg/L		11/01/20 15:00	11/02/20 22:39	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		11/01/20 15:00	11/02/20 22:39	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		11/01/20 15:00	11/02/20 22:39	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		11/01/20 15:00	11/02/20 22:39	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 13:19	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	4.57	U	6.00	4.57	mg/L		11/01/20 15:00	11/02/20 22:39	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	1.48	H	1.00	0.500	mg/L			11/16/20 10:46	1
Bicarbonate Alkalinity as CaCO3	1.48	H	1.00	0.500	mg/L			11/16/20 10:46	1
Carbonate Alkalinity as CaCO3	0.500	U H	1.00	0.500	mg/L			11/16/20 10:46	1
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			10/31/20 21:21	1
Chloride	1.40	U	2.00	1.40	mg/L			11/11/20 13:16	1
Fluoride	0.0320	U	0.100	0.0320	mg/L			11/13/20 18:35	1
Sulfate	1.40	U	5.00	1.40	mg/L			11/12/20 23:46	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: EB-02

Lab Sample ID: 400-194965-44

Date Collected: 10/26/20 16:00

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		11/01/20 15:00	11/02/20 22:43	5
Arsenic	0.00235		0.00125	0.000390	mg/L		11/01/20 15:00	11/02/20 22:43	5
Barium	0.000700	U	0.00250	0.000700	mg/L		11/01/20 15:00	11/02/20 22:43	5
Beryllium	0.000170	U ^	0.00250	0.000170	mg/L		11/01/20 15:00	11/02/20 22:43	5
Boron	0.0180	U ^	0.0500	0.0180	mg/L		11/01/20 15:00	11/05/20 17:28	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		11/01/20 15:00	11/02/20 22:43	5
Calcium	0.125	U	0.250	0.125	mg/L		11/01/20 15:00	11/02/20 22:43	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		11/01/20 15:00	11/02/20 22:43	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		11/01/20 15:00	11/02/20 22:43	5
Lead	0.000290	U	0.00125	0.000290	mg/L		11/01/20 15:00	11/02/20 22:43	5
Lithium	0.00233	J B	0.00500	0.00190	mg/L		11/01/20 15:00	11/02/20 22:43	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		11/01/20 15:00	11/02/20 22:43	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		11/01/20 15:00	11/02/20 22:43	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		11/01/20 15:00	11/02/20 22:43	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 13:21	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	4.57	U	6.00	4.57	mg/L		11/01/20 15:00	11/02/20 22:43	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	3.56	H	1.00	0.500	mg/L			11/16/20 10:49	1
Bicarbonate Alkalinity as CaCO3	3.56	H	1.00	0.500	mg/L			11/16/20 10:49	1
Carbonate Alkalinity as CaCO3	0.500	U H	1.00	0.500	mg/L			11/16/20 10:49	1
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			10/31/20 21:21	1
Chloride	1.40	U	2.00	1.40	mg/L			11/11/20 13:16	1
Fluoride	0.0320	U	0.100	0.0320	mg/L			11/13/20 18:38	1
Sulfate	1.40	U	5.00	1.40	mg/L			11/12/20 23:46	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: DUP-01

Lab Sample ID: 400-194965-45

Date Collected: 10/26/20 07:35

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		11/02/20 14:44	11/03/20 20:56	5
Arsenic	0.000390	U	0.00125	0.000390	mg/L		11/02/20 14:44	11/03/20 20:56	5
Barium	0.0605		0.00250	0.000700	mg/L		11/02/20 14:44	11/03/20 20:56	5
Beryllium	0.000170	U	0.00250	0.000170	mg/L		11/02/20 14:44	11/03/20 20:56	5
Boron	0.632		0.100	0.0360	mg/L		11/02/20 14:44	11/10/20 22:57	10
Cadmium	0.000280	U	0.00250	0.000280	mg/L		11/02/20 14:44	11/03/20 20:56	5
Calcium	53.9		0.250	0.125	mg/L		11/02/20 14:44	11/03/20 20:56	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		11/02/20 14:44	11/03/20 20:56	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		11/02/20 14:44	11/03/20 20:56	5
Lead	0.000290	U	0.00125	0.000290	mg/L		11/02/20 14:44	11/03/20 20:56	5
Lithium	0.0251		0.0100	0.00380	mg/L		11/02/20 14:44	11/10/20 22:57	10
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		11/02/20 14:44	11/03/20 20:56	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		11/02/20 14:44	11/10/20 05:47	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		11/02/20 14:44	11/03/20 20:56	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 13:23	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	773		6.00	4.57	mg/L		11/02/20 14:44	11/10/20 05:47	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	31.8	H	1.00	0.500	mg/L			11/16/20 10:58	1
Bicarbonate Alkalinity as CaCO3	0.500	U H	1.00	0.500	mg/L			11/16/20 10:58	1
Carbonate Alkalinity as CaCO3	3.07	H	1.00	0.500	mg/L			11/16/20 10:58	1
Total Dissolved Solids	4860		50.0	50.0	mg/L			10/31/20 21:21	1
Chloride	2410		200	140	mg/L			11/11/20 12:52	100
Fluoride	0.150		0.100	0.0320	mg/L			11/13/20 18:40	1
Sulfate	237	J	500	140	mg/L			11/13/20 00:02	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.59				SU			10/26/20 07:35	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: DUP-01-FF

Lab Sample ID: 400-194965-46

Date Collected: 10/26/20 08:05

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		11/02/20 14:44	11/03/20 21:00	5
Arsenic, Dissolved	0.00373	B	0.00125	0.000390	mg/L		11/02/20 14:44	11/10/20 06:00	5
Barium, Dissolved	0.0611		0.00250	0.000700	mg/L		11/02/20 14:44	11/03/20 21:00	5
Beryllium, Dissolved	0.000340	U	0.00500	0.000340	mg/L		11/02/20 14:44	11/10/20 23:03	10
Boron, Dissolved	0.615		0.100	0.0360	mg/L		11/02/20 14:44	11/10/20 23:03	10
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		11/02/20 14:44	11/03/20 21:00	5
Calcium, Dissolved	52.5		0.250	0.125	mg/L		11/02/20 14:44	11/03/20 21:00	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		11/02/20 14:44	11/03/20 21:00	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		11/02/20 14:44	11/03/20 21:00	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		11/02/20 14:44	11/03/20 21:00	5
Lithium, Dissolved	0.0286		0.0100	0.00380	mg/L		11/02/20 14:44	11/10/20 23:03	10
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		11/02/20 14:44	11/03/20 21:00	5
Selenium, Dissolved	0.000820	U	0.00125	0.000820	mg/L		11/02/20 14:44	11/10/20 06:00	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		11/02/20 14:44	11/03/20 21:00	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 13:25	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	774		6.00	4.57	mg/L		11/02/20 14:44	11/10/20 06:00	5

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	33.4	H	1.00	0.500	mg/L			11/16/20 11:03	1
Bicarbonate Alkalinity as CaCO3, Dissolved	33.4	H	1.00	0.500	mg/L			11/16/20 11:03	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U H	1.00	0.500	mg/L			11/16/20 11:03	1
Total Dissolved Solids	4080		50.0	50.0	mg/L			10/31/20 21:21	1
Chloride, Dissolved	2350		200	140	mg/L			11/11/20 12:52	100
Fluoride, Dissolved	0.150		0.100	0.0320	mg/L			11/13/20 18:43	1
Sulfate, Dissolved	210	J	500	140	mg/L			11/13/20 00:02	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.59				SU			10/26/20 08:05	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: DUP-02

Lab Sample ID: 400-194965-47

Date Collected: 10/26/20 13:05

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		11/02/20 14:44	11/03/20 21:04	5
Arsenic	0.000390	U	0.00125	0.000390	mg/L		11/02/20 14:44	11/03/20 21:04	5
Barium	0.0585		0.00250	0.000700	mg/L		11/02/20 14:44	11/03/20 21:04	5
Beryllium	0.00170	U	0.0250	0.00170	mg/L		11/02/20 14:44	11/10/20 23:10	50
Boron	0.918		0.500	0.180	mg/L		11/02/20 14:44	11/10/20 23:10	50
Cadmium	0.000280	U	0.00250	0.000280	mg/L		11/02/20 14:44	11/03/20 21:04	5
Calcium	81.8		0.250	0.125	mg/L		11/02/20 14:44	11/03/20 21:04	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		11/02/20 14:44	11/03/20 21:04	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		11/02/20 14:44	11/03/20 21:04	5
Lead	0.000290	U	0.00125	0.000290	mg/L		11/02/20 14:44	11/03/20 21:04	5
Lithium	0.0253	J	0.0500	0.0190	mg/L		11/02/20 14:44	11/10/20 23:10	50
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		11/02/20 14:44	11/03/20 21:04	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		11/02/20 14:44	11/10/20 06:13	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		11/02/20 14:44	11/03/20 21:04	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U F1	0.000200	0.0000700	mg/L		10/30/20 08:49	11/01/20 14:41	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1290		60.0	45.7	mg/L		11/02/20 14:44	11/10/20 06:32	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	39.8	H	1.00	0.500	mg/L			11/16/20 11:10	1
Bicarbonate Alkalinity as CaCO3	39.8	H	1.00	0.500	mg/L			11/16/20 11:10	1
Carbonate Alkalinity as CaCO3	0.500	U H	1.00	0.500	mg/L			11/16/20 11:10	1
Total Dissolved Solids	7550		125	125	mg/L			10/31/20 21:21	1
Chloride	3540		200	140	mg/L			11/11/20 12:52	100
Fluoride	0.220		0.100	0.0320	mg/L			11/13/20 18:46	1
Sulfate	479	J	500	140	mg/L			11/13/20 00:02	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.78				SU			10/26/20 13:05	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: DUP-02-FF

Lab Sample ID: 400-194965-48

Date Collected: 10/26/20 13:15

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		11/02/20 14:44	11/03/20 21:08	5
Arsenic, Dissolved	0.000390	U	0.00125	0.000390	mg/L		11/02/20 14:44	11/03/20 21:08	5
Barium, Dissolved	0.0584		0.00250	0.000700	mg/L		11/02/20 14:44	11/03/20 21:08	5
Beryllium, Dissolved	0.000340	U	0.00500	0.000340	mg/L		11/02/20 14:44	11/10/20 23:16	10
Boron, Dissolved	1.27		0.100	0.0360	mg/L		11/02/20 14:44	11/10/20 23:16	10
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		11/02/20 14:44	11/03/20 21:08	5
Calcium, Dissolved	82.8		0.250	0.125	mg/L		11/02/20 14:44	11/03/20 21:08	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		11/02/20 14:44	11/03/20 21:08	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		11/02/20 14:44	11/03/20 21:08	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		11/02/20 14:44	11/03/20 21:08	5
Lithium, Dissolved	0.0496		0.0100	0.00380	mg/L		11/02/20 14:44	11/10/20 23:16	10
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		11/02/20 14:44	11/03/20 21:08	5
Selenium, Dissolved	0.000820	U	0.00125	0.000820	mg/L		11/02/20 14:44	11/10/20 06:39	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		11/02/20 14:44	11/03/20 21:08	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/30/20 08:49	11/01/20 14:49	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1430		12.0	9.13	mg/L		11/02/20 14:44	11/10/20 06:45	10

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	47.5	H	1.00	0.500	mg/L			11/16/20 11:14	1
Bicarbonate Alkalinity as CaCO3, Dissolved	47.5	H	1.00	0.500	mg/L			11/16/20 11:14	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U H	1.00	0.500	mg/L			11/16/20 11:14	1
Total Dissolved Solids	7100		125	125	mg/L			10/31/20 21:21	1
Chloride, Dissolved	3530		200	140	mg/L			11/11/20 12:52	100
Fluoride, Dissolved	0.447		0.100	0.0320	mg/L			11/19/20 15:00	1
Sulfate, Dissolved	466	J	500	140	mg/L			11/13/20 00:02	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.78				SU			10/26/20 13:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: DUP-03

Lab Sample ID: 400-194965-49

Date Collected: 10/26/20 15:12

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		11/02/20 14:44	11/03/20 21:13	5
Arsenic	0.00151		0.00125	0.000390	mg/L		11/02/20 14:44	11/03/20 21:13	5
Barium	0.0621		0.00250	0.000700	mg/L		11/02/20 14:44	11/03/20 21:13	5
Beryllium	0.00170	U	0.0250	0.00170	mg/L		11/02/20 14:44	11/10/20 23:23	50
Boron	1.33		0.500	0.180	mg/L		11/02/20 14:44	11/10/20 23:23	50
Cadmium	0.000280	U	0.00250	0.000280	mg/L		11/02/20 14:44	11/03/20 21:13	5
Calcium	108		0.250	0.125	mg/L		11/02/20 14:44	11/03/20 21:13	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		11/02/20 14:44	11/03/20 21:13	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		11/02/20 14:44	11/03/20 21:13	5
Lead	0.000290	U	0.00125	0.000290	mg/L		11/02/20 14:44	11/03/20 21:13	5
Lithium	0.0561		0.0500	0.0190	mg/L		11/02/20 14:44	11/10/20 23:23	50
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		11/02/20 14:44	11/03/20 21:13	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		11/02/20 14:44	11/10/20 06:52	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		11/02/20 14:44	11/03/20 21:13	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/30/20 08:49	11/01/20 14:51	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1670		60.0	45.7	mg/L		11/02/20 14:44	11/10/20 06:58	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	48.1	H	1.00	0.500	mg/L			11/16/20 11:32	1
Bicarbonate Alkalinity as CaCO3	48.1	H	1.00	0.500	mg/L			11/16/20 11:32	1
Carbonate Alkalinity as CaCO3	0.500	U H	1.00	0.500	mg/L			11/16/20 11:32	1
Total Dissolved Solids	9400		250	250	mg/L			10/31/20 21:21	1
Chloride	4320		200	140	mg/L			11/11/20 12:52	100
Fluoride	0.302		0.100	0.0320	mg/L			11/19/20 15:00	1
Sulfate	679		500	140	mg/L			11/13/20 00:05	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.93				SU			10/26/20 15:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: DUP-03-FF

Lab Sample ID: 400-194965-50

Date Collected: 10/26/20 15:32

Matrix: Water

Date Received: 10/27/20 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		11/02/20 14:44	11/03/20 21:25	5
Arsenic, Dissolved	0.00128		0.00125	0.000390	mg/L		11/02/20 14:44	11/03/20 21:25	5
Barium, Dissolved	0.0623		0.00250	0.000700	mg/L		11/02/20 14:44	11/03/20 21:25	5
Beryllium, Dissolved	0.00170	U	0.0250	0.00170	mg/L		11/02/20 14:44	11/10/20 23:29	50
Boron, Dissolved	1.27		0.500	0.180	mg/L		11/02/20 14:44	11/10/20 23:29	50
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		11/02/20 14:44	11/03/20 21:25	5
Calcium, Dissolved	109		0.250	0.125	mg/L		11/02/20 14:44	11/03/20 21:25	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		11/02/20 14:44	11/03/20 21:25	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		11/02/20 14:44	11/03/20 21:25	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		11/02/20 14:44	11/03/20 21:25	5
Lithium, Dissolved	0.0348	J	0.0500	0.0190	mg/L		11/02/20 14:44	11/10/20 23:29	50
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		11/02/20 14:44	11/03/20 21:25	5
Selenium, Dissolved	0.000820	U	0.00125	0.000820	mg/L		11/02/20 14:44	11/10/20 07:04	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		11/02/20 14:44	11/03/20 21:25	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/30/20 08:49	11/01/20 14:53	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1620		60.0	45.7	mg/L		11/02/20 14:44	11/10/20 07:11	50

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	58.0	H	1.00	0.500	mg/L			11/16/20 11:44	1
Bicarbonate Alkalinity as CaCO3, Dissolved	58.0	H	1.00	0.500	mg/L			11/16/20 11:44	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U H	1.00	0.500	mg/L			11/16/20 11:44	1
Total Dissolved Solids	9800		250	250	mg/L			10/31/20 21:21	1
Chloride, Dissolved	4310		200	140	mg/L			11/11/20 12:57	100
Fluoride, Dissolved	0.302		0.100	0.0320	mg/L			11/19/20 15:00	1
Sulfate, Dissolved	697		500	140	mg/L			11/13/20 00:05	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.93				SU			10/26/20 15:32	1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-1-1FT

Lab Sample ID: 400-194965-1

Date Collected: 10/26/20 16:12

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511070	11/16/20 21:23	AW	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	512204	11/25/20 15:44	LDC	TAL PEN
Total/NA	Prep	7470A			508475	10/28/20 09:47	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/28/20 14:21	NET	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	511070	11/16/20 21:23	AW	TAL PEN
Total/NA	Analysis	SM 2320B		1	509968	11/09/20 13:03	CAC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510136	11/10/20 13:29	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510672	11/13/20 14:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:27	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 16:12	IDE	TAL PEN

Client Sample ID: SW-1-1FT-FF

Lab Sample ID: 400-194965-2

Date Collected: 10/26/20 16:32

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	511070	11/16/20 21:28	AW	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	512204	11/25/20 15:49	LDC	TAL PEN
Dissolved	Prep	7470A			508475	10/28/20 09:47	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/28/20 14:23	NET	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	511070	11/16/20 21:28	AW	TAL PEN
Dissolved	Analysis	SM 2320B		1	509968	11/09/20 13:08	CAC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510136	11/10/20 13:29	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510672	11/13/20 14:54	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:27	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 16:32	IDE	TAL PEN

Client Sample ID: SW-1-7FT

Lab Sample ID: 400-194965-3

Date Collected: 10/26/20 16:45

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511070	11/16/20 21:45	AW	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	512204	11/25/20 16:04	LDC	TAL PEN

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-1-7FT

Lab Sample ID: 400-194965-3

Date Collected: 10/26/20 16:45

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			508475	10/28/20 09:47	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/28/20 14:25	NET	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	511070	11/16/20 21:45	AW	TAL PEN
Total/NA	Analysis	SM 2320B		1	509968	11/09/20 13:14	CAC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510136	11/10/20 13:29	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510672	11/13/20 14:57	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:27	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 16:45	IDE	TAL PEN

Client Sample ID: SW-1-7FT-FF

Lab Sample ID: 400-194965-4

Date Collected: 10/26/20 16:52

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	511070	11/16/20 21:51	AW	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	512204	11/25/20 16:10	LDC	TAL PEN
Dissolved	Prep	7470A			508475	10/28/20 09:47	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/28/20 14:27	NET	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	511070	11/16/20 21:51	AW	TAL PEN
Dissolved	Analysis	SM 2320B		1	509968	11/09/20 13:33	CAC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510136	11/10/20 13:29	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510672	11/13/20 15:00	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:31	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 16:52	IDE	TAL PEN

Client Sample ID: SW-2-1FT

Lab Sample ID: 400-194965-5

Date Collected: 10/26/20 15:15

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511070	11/16/20 21:57	AW	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	512204	11/25/20 16:15	LDC	TAL PEN
Total/NA	Prep	7470A			508475	10/28/20 09:47	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/28/20 14:28	NET	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	511070	11/16/20 21:57	AW	TAL PEN

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-2-1FT

Lab Sample ID: 400-194965-5

Date Collected: 10/26/20 15:15

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	509968	11/09/20 13:44	CAC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510136	11/10/20 13:29	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510672	11/13/20 15:02	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:31	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 15:15	IDE	TAL PEN

Client Sample ID: SW-2-1FT-FF

Lab Sample ID: 400-194965-6

Date Collected: 10/26/20 15:30

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	511070	11/16/20 22:02	AW	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	512204	11/25/20 16:20	LDC	TAL PEN
Dissolved	Prep	7470A			508475	10/28/20 09:47	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/28/20 14:30	NET	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	511070	11/16/20 22:02	AW	TAL PEN
Dissolved	Analysis	SM 2320B		1	509968	11/09/20 13:50	CAC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510136	11/10/20 13:36	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510672	11/13/20 15:05	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:31	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 15:30	IDE	TAL PEN

Client Sample ID: SW-2-7FT

Lab Sample ID: 400-194965-7

Date Collected: 10/26/20 15:45

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511070	11/16/20 22:08	AW	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	512204	11/25/20 16:35	LDC	TAL PEN
Total/NA	Prep	7470A			508475	10/28/20 09:47	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/28/20 14:32	NET	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	511070	11/16/20 22:08	AW	TAL PEN
Total/NA	Analysis	SM 2320B		1	509968	11/09/20 13:57	CAC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510136	11/10/20 13:36	RRC	TAL PEN

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-2-7FT

Lab Sample ID: 400-194965-7

Date Collected: 10/26/20 15:45

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	510672	11/13/20 15:07	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:31	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 15:45	IDE	TAL PEN

Client Sample ID: SW-2-7FT-FF

Lab Sample ID: 400-194965-8

Date Collected: 10/26/20 15:55

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	511070	11/16/20 22:14	AW	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	512204	11/25/20 16:40	LDC	TAL PEN
Dissolved	Prep	7470A			508475	10/28/20 09:47	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/28/20 14:34	NET	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	511070	11/16/20 22:14	AW	TAL PEN
Dissolved	Analysis	SM 2320B		1	509968	11/09/20 14:04	CAC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510136	11/10/20 13:39	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510707	11/13/20 15:46	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:39	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 15:55	IDE	TAL PEN

Client Sample ID: SW-3-1FT

Lab Sample ID: 400-194965-9

Date Collected: 10/26/20 08:14

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511070	11/16/20 22:31	AW	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	512204	11/25/20 16:46	LDC	TAL PEN
Total/NA	Prep	7470A			508475	10/28/20 09:47	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/28/20 14:36	NET	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	511070	11/16/20 22:31	AW	TAL PEN
Total/NA	Analysis	SM 2320B		1	509968	11/09/20 14:10	CAC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510136	11/10/20 13:39	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510707	11/13/20 15:54	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:39	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 08:14	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-3-1FT-FF

Lab Sample ID: 400-194965-10

Date Collected: 10/26/20 08:24

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	511070	11/16/20 22:36	AW	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	512204	11/25/20 16:51	LDC	TAL PEN
Dissolved	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 11:52	NET	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	511070	11/16/20 22:36	AW	TAL PEN
Dissolved	Analysis	SM 2320B		1	509968	11/09/20 14:17	CAC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510136	11/10/20 13:39	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510707	11/13/20 15:57	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:39	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 08:24	IDE	TAL PEN

Client Sample ID: SW-3-4FT

Lab Sample ID: 400-194965-11

Date Collected: 10/26/20 08:51

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511070	11/16/20 22:42	AW	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	512204	11/25/20 16:56	LDC	TAL PEN
Total/NA	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 11:54	NET	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	511070	11/16/20 22:42	AW	TAL PEN
Total/NA	Analysis	SM 2320B		1	509968	11/09/20 14:24	CAC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510136	11/10/20 13:39	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510707	11/13/20 16:00	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:39	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 08:51	IDE	TAL PEN

Client Sample ID: SW-3-4FT-FF

Lab Sample ID: 400-194965-12

Date Collected: 10/26/20 09:01

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	511070	11/16/20 22:48	AW	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	512204	11/25/20 17:01	LDC	TAL PEN

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-3-4FT-FF

Lab Sample ID: 400-194965-12

Date Collected: 10/26/20 09:01

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 12:00	NET	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	511070	11/16/20 22:48	AW	TAL PEN
Dissolved	Analysis	SM 2320B		1	509968	11/09/20 14:29	CAC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510136	11/10/20 13:39	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510707	11/13/20 16:02	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:43	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 09:01	IDE	TAL PEN

Client Sample ID: SW-4-1.5FT

Lab Sample ID: 400-194965-13

Date Collected: 10/26/20 12:05

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511070	11/16/20 22:53	AW	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	512204	11/25/20 17:06	LDC	TAL PEN
Total/NA	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 12:02	NET	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	511070	11/16/20 22:53	AW	TAL PEN
Total/NA	Analysis	SM 2320B		1	509968	11/09/20 14:34	CAC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510136	11/10/20 13:39	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510707	11/13/20 16:05	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:43	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 12:05	IDE	TAL PEN

Client Sample ID: SW-4-1.5FT-FF

Lab Sample ID: 400-194965-14

Date Collected: 10/26/20 12:15

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	511070	11/16/20 22:59	AW	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	512204	11/25/20 17:11	LDC	TAL PEN
Dissolved	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 12:04	NET	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	511070	11/16/20 22:59	AW	TAL PEN

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-4-1.5FT-FF

Lab Sample ID: 400-194965-14

Date Collected: 10/26/20 12:15

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 2320B		1	510023	11/09/20 15:31	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Dissolved	Analysis	SM 4500 CI- E		100	510136	11/10/20 13:45	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510707	11/13/20 16:07	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510568	11/12/20 19:43	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 12:15	IDE	TAL PEN

Client Sample ID: SW-5-1FT

Lab Sample ID: 400-194965-15

Date Collected: 10/26/20 08:35

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511070	11/16/20 23:05	AW	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	512204	11/25/20 17:16	LDC	TAL PEN
Total/NA	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 12:06	NET	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	511070	11/16/20 23:05	AW	TAL PEN
Total/NA	Analysis	SM 2320B		1	510023	11/09/20 15:43	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	510197	11/10/20 15:56	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510707	11/13/20 16:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:37	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 08:35	IDE	TAL PEN

Client Sample ID: SW-5-1FT-FF

Lab Sample ID: 400-194965-16

Date Collected: 10/26/20 09:05

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	511070	11/16/20 23:10	AW	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	512204	11/25/20 17:22	LDC	TAL PEN
Dissolved	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 12:08	NET	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	511070	11/16/20 23:10	AW	TAL PEN
Dissolved	Analysis	SM 2320B		1	510023	11/09/20 15:49	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Dissolved	Analysis	SM 4500 CI- E		100	510197	11/10/20 15:56	RRC	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-5-1FT-FF

Lab Sample ID: 400-194965-16

Date Collected: 10/26/20 09:05

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 4500 F C		1	510707	11/13/20 16:12	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:37	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 09:05	IDE	TAL PEN

Client Sample ID: SW-5-13FT

Lab Sample ID: 400-194965-17

Date Collected: 10/26/20 09:25

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511070	11/16/20 23:16	AW	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	512204	11/25/20 17:37	LDC	TAL PEN
Total/NA	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 12:09	NET	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	511070	11/16/20 23:16	AW	TAL PEN
Total/NA	Analysis	SM 2320B		1	510023	11/09/20 15:56	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508841	10/30/20 17:13	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		200	510297	11/11/20 12:41	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510707	11/13/20 16:15	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:41	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 09:25	IDE	TAL PEN

Client Sample ID: SW-5-13FT-FF

Lab Sample ID: 400-194965-18

Date Collected: 10/26/20 09:45

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	511070	11/16/20 23:22	AW	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	512204	11/25/20 17:42	LDC	TAL PEN
Dissolved	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 12:11	NET	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	511070	11/16/20 23:22	AW	TAL PEN
Dissolved	Analysis	SM 2320B		1	510023	11/09/20 16:02	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		200	510197	11/10/20 17:34	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510707	11/13/20 16:25	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:41	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 09:45	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-6-1FT

Lab Sample ID: 400-194965-19

Date Collected: 10/26/20 10:10

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511070	11/16/20 23:38	AW	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	512204	11/25/20 17:47	LDC	TAL PEN
Total/NA	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 12:13	NET	TAL PEN
Total Recoverable	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	511070	11/16/20 23:38	AW	TAL PEN
Total/NA	Analysis	SM 2320B		1	510023	11/09/20 16:09	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510197	11/10/20 15:59	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510707	11/13/20 16:34	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:41	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 10:10	IDE	TAL PEN

Client Sample ID: SW-6-1FT-FF

Lab Sample ID: 400-194965-20

Date Collected: 10/26/20 10:20

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	511070	11/16/20 23:44	AW	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	6020		25	512204	11/25/20 17:52	LDC	TAL PEN
Dissolved	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 12:15	NET	TAL PEN
Dissolved	Prep	3005A			510664	11/13/20 14:52	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	511070	11/16/20 23:44	AW	TAL PEN
Dissolved	Analysis	SM 2320B		1	509458	11/03/20 16:26	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510197	11/10/20 15:59	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510707	11/13/20 16:37	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:41	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508385	10/26/20 10:20	IDE	TAL PEN

Client Sample ID: SW-6-9.5FT

Lab Sample ID: 400-194965-21

Date Collected: 10/26/20 10:30

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	509632	11/05/20 22:49	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510349	11/11/20 11:22	LDC	TAL PEN

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-6-9.5FT

Lab Sample ID: 400-194965-21

Date Collected: 10/26/20 10:30

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510590	11/13/20 02:22	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511844	11/23/20 16:07	LDC	TAL PEN
Total/NA	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 12:17	NET	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	510590	11/13/20 02:22	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	509458	11/03/20 16:32	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		200	510197	11/10/20 17:34	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510707	11/13/20 16:40	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:45	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 10:30	IDE	TAL PEN

Client Sample ID: SW-6-9.5FT-FF

Lab Sample ID: 400-194965-22

Date Collected: 10/26/20 10:40

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		5	509632	11/05/20 23:09	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510349	11/11/20 11:41	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510590	11/13/20 02:39	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	511844	11/23/20 16:24	LDC	TAL PEN
Dissolved	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 12:23	NET	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	510590	11/13/20 02:39	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	509458	11/03/20 16:38	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		200	510197	11/10/20 17:34	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510707	11/13/20 16:43	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:45	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 10:40	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-9-1FT

Lab Sample ID: 400-194965-23

Date Collected: 10/26/20 11:10

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	509632	11/05/20 23:13	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510349	11/11/20 11:48	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510590	11/13/20 02:45	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511844	11/23/20 16:29	LDC	TAL PEN
Total/NA	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 12:25	NET	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	510590	11/13/20 02:45	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	509458	11/03/20 16:44	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510197	11/10/20 16:07	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510707	11/13/20 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:45	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 11:10	IDE	TAL PEN

Client Sample ID: SW-9-1FT-FF

Lab Sample ID: 400-194965-24

Date Collected: 10/26/20 11:20

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		5	509632	11/05/20 23:17	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510349	11/11/20 11:54	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510590	11/13/20 02:50	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	511844	11/23/20 16:35	LDC	TAL PEN
Dissolved	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 12:26	NET	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	510590	11/13/20 02:50	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	509458	11/03/20 16:50	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510197	11/10/20 16:07	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510707	11/13/20 16:49	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:45	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 11:20	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-9-4FT

Lab Sample ID: 400-194965-25

Date Collected: 10/26/20 11:30

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	509632	11/05/20 23:29	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510349	11/11/20 12:01	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510590	11/13/20 02:56	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511844	11/23/20 16:41	LDC	TAL PEN
Total/NA	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 12:28	NET	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	510590	11/13/20 02:56	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510023	11/09/20 16:15	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510197	11/10/20 16:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510707	11/13/20 16:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:51	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 11:30	IDE	TAL PEN

Client Sample ID: SW-9-4FT-FF

Lab Sample ID: 400-194965-26

Date Collected: 10/26/20 11:40

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		5	509632	11/05/20 23:33	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510349	11/11/20 12:07	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510590	11/13/20 03:01	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	511844	11/23/20 16:46	LDC	TAL PEN
Dissolved	Prep	7470A			508539	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 12:30	NET	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	510590	11/13/20 03:01	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510023	11/09/20 16:21	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510197	11/10/20 16:17	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510707	11/13/20 16:55	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:52	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 11:40	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-10-2FT

Lab Sample ID: 400-194965-27

Date Collected: 10/26/20 12:00

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	509632	11/05/20 23:37	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510349	11/11/20 12:27	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510590	11/13/20 03:18	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511844	11/23/20 17:03	LDC	TAL PEN
Total/NA	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 12:36	NET	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	510590	11/13/20 03:18	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510023	11/09/20 16:27	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510197	11/10/20 16:17	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510707	11/13/20 16:57	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:56	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 12:00	IDE	TAL PEN

Client Sample ID: SW-10-2FT-FF

Lab Sample ID: 400-194965-28

Date Collected: 10/26/20 12:10

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		5	509632	11/05/20 23:41	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510349	11/11/20 12:33	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510590	11/13/20 03:24	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	511844	11/23/20 17:09	LDC	TAL PEN
Dissolved	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 12:47	NET	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	510590	11/13/20 03:24	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510023	11/09/20 16:33	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510197	11/10/20 16:10	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510745	11/13/20 17:36	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:56	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 12:10	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-11-1FT

Lab Sample ID: 400-194965-29

Date Collected: 10/26/20 13:00

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	509632	11/05/20 23:45	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510349	11/11/20 12:40	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510590	11/13/20 03:30	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511844	11/23/20 17:14	LDC	TAL PEN
Total/NA	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 12:49	NET	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	510590	11/13/20 03:30	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510023	11/09/20 16:52	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510197	11/10/20 16:17	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510745	11/13/20 17:44	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:56	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 13:00	IDE	TAL PEN

Client Sample ID: SW-11-1FT-FF

Lab Sample ID: 400-194965-30

Date Collected: 10/26/20 13:10

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		5	509632	11/05/20 23:49	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510349	11/11/20 12:46	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510590	11/13/20 03:35	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	511844	11/23/20 17:20	LDC	TAL PEN
Dissolved	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 12:51	NET	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	510590	11/13/20 03:35	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510023	11/09/20 17:04	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510197	11/10/20 16:10	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510745	11/13/20 17:47	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510572	11/12/20 21:56	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 13:10	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-12-1FT

Lab Sample ID: 400-194965-31

Date Collected: 10/26/20 13:15

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	509632	11/05/20 23:53	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510349	11/11/20 12:52	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510590	11/13/20 03:41	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511844	11/23/20 17:26	LDC	TAL PEN
Total/NA	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 12:53	NET	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	510590	11/13/20 03:41	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510023	11/09/20 17:11	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510197	11/10/20 16:17	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510745	11/13/20 17:49	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510572	11/12/20 22:00	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 13:15	IDE	TAL PEN

Client Sample ID: SW-12-1FT-FF

Lab Sample ID: 400-194965-32

Date Collected: 10/26/20 13:25

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		5	509632	11/05/20 23:57	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510349	11/11/20 12:59	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510590	11/13/20 03:47	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	511844	11/23/20 17:31	LDC	TAL PEN
Dissolved	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 12:55	NET	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	510590	11/13/20 03:47	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510023	11/09/20 17:17	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510197	11/10/20 16:10	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510745	11/13/20 17:52	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510572	11/12/20 22:00	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 13:25	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-13-1FT

Lab Sample ID: 400-194965-33

Date Collected: 10/26/20 13:40

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	509632	11/06/20 00:01	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510349	11/11/20 13:05	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510590	11/13/20 03:52	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511844	11/23/20 17:37	LDC	TAL PEN
Total/NA	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 12:57	NET	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	510590	11/13/20 03:52	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510023	11/09/20 17:23	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510197	11/10/20 16:07	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510745	11/13/20 17:55	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510572	11/12/20 22:00	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 13:40	IDE	TAL PEN

Client Sample ID: SW-13-1FT-FF

Lab Sample ID: 400-194965-34

Date Collected: 10/26/20 13:50

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		5	509632	11/06/20 00:05	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510349	11/11/20 13:12	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510590	11/13/20 03:58	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	511844	11/23/20 17:43	LDC	TAL PEN
Dissolved	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 12:59	NET	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	510590	11/13/20 03:58	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510023	11/09/20 17:30	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510197	11/10/20 16:10	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510745	11/13/20 17:57	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510572	11/12/20 22:00	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 13:50	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-14-1.5FT

Lab Sample ID: 400-194965-35

Date Collected: 10/26/20 11:05

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	509632	11/06/20 00:17	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510349	11/11/20 13:18	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511844	11/23/20 17:48	LDC	TAL PEN
Total/NA	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 13:01	NET	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	510590	11/13/20 04:04	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510023	11/09/20 17:37	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508908	10/31/20 21:21	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:41	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510745	11/13/20 18:00	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510574	11/12/20 23:53	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 11:05	IDE	TAL PEN

Client Sample ID: SW-14-1.5FT-FF

Lab Sample ID: 400-194965-36

Date Collected: 10/26/20 11:15

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		5	509632	11/06/20 00:21	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510349	11/11/20 13:25	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	511844	11/23/20 17:54	LDC	TAL PEN
Dissolved	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 13:02	NET	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	510590	11/13/20 04:09	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510023	11/09/20 17:43	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508908	10/31/20 21:21	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:41	DN1	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510745	11/13/20 18:02	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510574	11/12/20 23:53	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 11:15	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-15-1.5FT

Lab Sample ID: 400-194965-37

Date Collected: 10/26/20 11:35

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	509632	11/06/20 00:25	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510349	11/11/20 13:44	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510590	11/13/20 04:26	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511844	11/23/20 18:11	LDC	TAL PEN
Total/NA	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 13:08	NET	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	510590	11/13/20 04:26	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510023	11/09/20 17:49	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:41	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510745	11/13/20 18:05	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510574	11/12/20 23:53	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 11:35	IDE	TAL PEN

Client Sample ID: SW-15-1.5FT-FF

Lab Sample ID: 400-194965-38

Date Collected: 10/26/20 11:45

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		5	509632	11/06/20 00:29	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	510349	11/11/20 13:51	LDC	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	6020		25	511844	11/23/20 18:17	LDC	TAL PEN
Dissolved	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 13:10	NET	TAL PEN
Dissolved	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	510590	11/13/20 04:32	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510023	11/09/20 17:56	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:41	DN1	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510745	11/13/20 18:15	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510574	11/12/20 23:53	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 11:45	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-16-1.5FT

Lab Sample ID: 400-194965-39

Date Collected: 10/26/20 10:20

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	509632	11/06/20 00:33	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	510349	11/11/20 13:57	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		1	510590	11/13/20 04:38	LDC	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	6020		25	511844	11/23/20 18:22	LDC	TAL PEN
Total/NA	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 13:12	NET	TAL PEN
Total Recoverable	Prep	3005A			508778	10/30/20 13:01	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		1	510590	11/13/20 04:38	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510024	11/09/20 18:47	RRC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510913	11/16/20 10:17	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508839	10/30/20 16:54	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:41	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510745	11/13/20 18:23	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510574	11/12/20 23:57	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 10:20	IDE	TAL PEN

Client Sample ID: SW-16-1.5FT-FF

Lab Sample ID: 400-194965-40

Date Collected: 10/26/20 10:30

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		5	509241	11/03/20 20:48	LDC	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		5	510079	11/10/20 05:22	LDC	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		25	510209	11/10/20 22:44	LDC	TAL PEN
Dissolved	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 13:14	NET	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		25	510079	11/10/20 05:28	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510024	11/09/20 18:59	RRC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510913	11/16/20 10:29	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508908	10/31/20 21:21	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:49	DN1	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510745	11/13/20 18:25	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510574	11/12/20 23:57	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 10:30	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: SW-17-1FT

Lab Sample ID: 400-194965-41

Date Collected: 10/26/20 09:27

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508920	11/01/20 15:00	NET	TAL PEN
Total Recoverable	Analysis	6020		5	509092	11/02/20 22:35	LDC	TAL PEN
Total Recoverable	Prep	3005A			508920	11/01/20 15:00	NET	TAL PEN
Total Recoverable	Analysis	6020		25	509632	11/05/20 17:19	LDC	TAL PEN
Total Recoverable	Prep	3005A			508920	11/01/20 15:00	NET	TAL PEN
Total Recoverable	Analysis	6020		25	509890	11/08/20 23:05	LDC	TAL PEN
Total/NA	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 13:16	NET	TAL PEN
Total Recoverable	Prep	3005A			508920	11/01/20 15:00	NET	TAL PEN
Total Recoverable	Analysis	SM 2340B		25	509632	11/05/20 17:19	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510024	11/09/20 19:06	RRC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510913	11/16/20 10:34	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508908	10/31/20 21:21	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:49	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510745	11/13/20 18:28	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510574	11/12/20 23:57	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 09:27	IDE	TAL PEN

Client Sample ID: SW-17-1FT-FF

Lab Sample ID: 400-194965-42

Date Collected: 10/26/20 09:37

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		5	509241	11/03/20 20:52	LDC	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		5	510079	11/10/20 05:34	LDC	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		50	510079	11/10/20 05:41	LDC	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		50	510209	11/10/20 22:50	LDC	TAL PEN
Dissolved	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 13:18	NET	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		50	510079	11/10/20 05:41	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510024	11/09/20 19:13	RRC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510913	11/16/20 10:42	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508908	10/31/20 21:21	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:49	DN1	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510745	11/13/20 18:31	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510574	11/12/20 23:57	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 09:37	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: EB-01

Lab Sample ID: 400-194965-43

Date Collected: 10/26/20 07:05

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508920	11/01/20 15:00	NET	TAL PEN
Total Recoverable	Analysis	6020		5	509092	11/02/20 22:39	LDC	TAL PEN
Total Recoverable	Prep	3005A			508920	11/01/20 15:00	NET	TAL PEN
Total Recoverable	Analysis	6020		5	509890	11/08/20 23:11	LDC	TAL PEN
Total/NA	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 13:19	NET	TAL PEN
Total Recoverable	Prep	3005A			508920	11/01/20 15:00	NET	TAL PEN
Total Recoverable	Analysis	SM 2340B		5	509092	11/02/20 22:39	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510024	11/09/20 19:18	RRC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510913	11/16/20 10:46	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508908	10/31/20 21:21	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	510297	11/11/20 13:16	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510745	11/13/20 18:35	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	510574	11/12/20 23:46	DN1	TAL PEN

Client Sample ID: EB-02

Lab Sample ID: 400-194965-44

Date Collected: 10/26/20 16:00

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			508920	11/01/20 15:00	NET	TAL PEN
Total Recoverable	Analysis	6020		5	509092	11/02/20 22:43	LDC	TAL PEN
Total Recoverable	Prep	3005A			508920	11/01/20 15:00	NET	TAL PEN
Total Recoverable	Analysis	6020		5	509632	11/05/20 17:28	LDC	TAL PEN
Total/NA	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 13:21	NET	TAL PEN
Total Recoverable	Prep	3005A			508920	11/01/20 15:00	NET	TAL PEN
Total Recoverable	Analysis	SM 2340B		5	509092	11/02/20 22:43	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510024	11/09/20 19:22	RRC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510913	11/16/20 10:49	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508908	10/31/20 21:21	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	510297	11/11/20 13:16	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510745	11/13/20 18:38	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	510574	11/12/20 23:46	DN1	TAL PEN

Client Sample ID: DUP-01

Lab Sample ID: 400-194965-45

Date Collected: 10/26/20 07:35

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	509241	11/03/20 20:56	LDC	TAL PEN
Total Recoverable	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	510079	11/10/20 05:47	LDC	TAL PEN

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: DUP-01

Lab Sample ID: 400-194965-45

Date Collected: 10/26/20 07:35

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Total Recoverable	Analysis	6020		10	510209	11/10/20 22:57	LDC	TAL PEN
Total/NA	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Total/NA	Analysis	7470A		1	508647	10/29/20 13:23	NET	TAL PEN
Total Recoverable	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		5	510079	11/10/20 05:47	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510024	11/09/20 19:28	RRC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510913	11/16/20 10:58	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508908	10/31/20 21:21	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:52	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510745	11/13/20 18:40	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510574	11/13/20 00:02	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 07:35	IDE	TAL PEN

Client Sample ID: DUP-01-FF

Lab Sample ID: 400-194965-46

Date Collected: 10/26/20 08:05

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		5	509241	11/03/20 21:00	LDC	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		5	510079	11/10/20 06:00	LDC	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		10	510209	11/10/20 23:03	LDC	TAL PEN
Dissolved	Prep	7470A			508542	10/29/20 09:00	NET	TAL PEN
Dissolved	Analysis	7470A		1	508647	10/29/20 13:25	NET	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		5	510079	11/10/20 06:00	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510024	11/09/20 19:34	RRC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510913	11/16/20 11:03	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508908	10/31/20 21:21	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:52	DN1	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	510745	11/13/20 18:43	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510574	11/13/20 00:02	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 08:05	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: DUP-02

Lab Sample ID: 400-194965-47

Date Collected: 10/26/20 13:05

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	509241	11/03/20 21:04	LDC	TAL PEN
Total Recoverable	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	510079	11/10/20 06:13	LDC	TAL PEN
Total Recoverable	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Total Recoverable	Analysis	6020		50	510209	11/10/20 23:10	LDC	TAL PEN
Total/NA	Prep	7470A			508722	10/30/20 08:49	NET	TAL PEN
Total/NA	Analysis	7470A		1	508948	11/01/20 14:41	NET	TAL PEN
Total Recoverable	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		50	510079	11/10/20 06:32	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510024	11/09/20 19:41	RRC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510913	11/16/20 11:10	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508908	10/31/20 21:21	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:52	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	510745	11/13/20 18:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510574	11/13/20 00:02	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 13:05	IDE	TAL PEN

Client Sample ID: DUP-02-FF

Lab Sample ID: 400-194965-48

Date Collected: 10/26/20 13:15

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		5	509241	11/03/20 21:08	LDC	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		5	510079	11/10/20 06:39	LDC	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		10	510209	11/10/20 23:16	LDC	TAL PEN
Dissolved	Prep	7470A			508722	10/30/20 08:49	NET	TAL PEN
Dissolved	Analysis	7470A		1	508948	11/01/20 14:49	NET	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		10	510079	11/10/20 06:45	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510024	11/09/20 19:47	RRC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510913	11/16/20 11:14	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508908	10/31/20 21:21	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:52	DN1	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	511410	11/19/20 15:00	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510574	11/13/20 00:02	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 13:15	IDE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Client Sample ID: DUP-03

Lab Sample ID: 400-194965-49

Date Collected: 10/26/20 15:12

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	509241	11/03/20 21:13	LDC	TAL PEN
Total Recoverable	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	510079	11/10/20 06:52	LDC	TAL PEN
Total Recoverable	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Total Recoverable	Analysis	6020		50	510209	11/10/20 23:23	LDC	TAL PEN
Total/NA	Prep	7470A			508722	10/30/20 08:49	NET	TAL PEN
Total/NA	Analysis	7470A		1	508948	11/01/20 14:51	NET	TAL PEN
Total Recoverable	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Total Recoverable	Analysis	SM 2340B		50	510079	11/10/20 06:58	LDC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510024	11/09/20 20:05	RRC	TAL PEN
Total/NA	Analysis	SM 2320B		1	510913	11/16/20 11:32	RRC	TAL PEN
Total/NA	Analysis	SM 2540C		1	508908	10/31/20 21:21	DEK	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:52	DN1	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	511410	11/19/20 15:00	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	510574	11/13/20 00:05	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 15:12	IDE	TAL PEN

Client Sample ID: DUP-03-FF

Lab Sample ID: 400-194965-50

Date Collected: 10/26/20 15:32

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		5	509241	11/03/20 21:25	LDC	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		5	510079	11/10/20 07:04	LDC	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	6020		50	510209	11/10/20 23:29	LDC	TAL PEN
Dissolved	Prep	7470A			508722	10/30/20 08:49	NET	TAL PEN
Dissolved	Analysis	7470A		1	508948	11/01/20 14:53	NET	TAL PEN
Dissolved	Prep	3005A			509021	11/02/20 14:44	KWN	TAL PEN
Dissolved	Analysis	SM 2340B		50	510079	11/10/20 07:11	LDC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510024	11/09/20 20:22	RRC	TAL PEN
Dissolved	Analysis	SM 2320B		1	510913	11/16/20 11:44	RRC	TAL PEN
Dissolved	Analysis	SM 2540C		1	508908	10/31/20 21:21	DEK	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		100	510297	11/11/20 12:57	DN1	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	511410	11/19/20 15:00	RRC	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		100	510574	11/13/20 00:05	DN1	TAL PEN
Total/NA	Analysis	Field Sampling		1	508387	10/26/20 15:32	IDE	TAL PEN

Laboratory References:

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

Eurofins TestAmerica, Pensacola

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Metals

Prep Batch: 508475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-1	SW-1-1FT	Total/NA	Water	7470A	
400-194965-2	SW-1-1FT-FF	Dissolved	Water	7470A	
400-194965-3	SW-1-7FT	Total/NA	Water	7470A	
400-194965-4	SW-1-7FT-FF	Dissolved	Water	7470A	
400-194965-5	SW-2-1FT	Total/NA	Water	7470A	
400-194965-6	SW-2-1FT-FF	Dissolved	Water	7470A	
400-194965-7	SW-2-7FT	Total/NA	Water	7470A	
400-194965-8	SW-2-7FT-FF	Dissolved	Water	7470A	
400-194965-9	SW-3-1FT	Total/NA	Water	7470A	
MB 400-508475/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-508475/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-195015-J-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-195015-J-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 508539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-10	SW-3-1FT-FF	Dissolved	Water	7470A	
400-194965-11	SW-3-4FT	Total/NA	Water	7470A	
400-194965-12	SW-3-4FT-FF	Dissolved	Water	7470A	
400-194965-13	SW-4-1.5FT	Total/NA	Water	7470A	
400-194965-14	SW-4-1.5FT-FF	Dissolved	Water	7470A	
400-194965-15	SW-5-1FT	Total/NA	Water	7470A	
400-194965-16	SW-5-1FT-FF	Dissolved	Water	7470A	
400-194965-17	SW-5-13FT	Total/NA	Water	7470A	
400-194965-18	SW-5-13FT-FF	Dissolved	Water	7470A	
400-194965-19	SW-6-1FT	Total/NA	Water	7470A	
400-194965-20	SW-6-1FT-FF	Dissolved	Water	7470A	
400-194965-21	SW-6-9.5FT	Total/NA	Water	7470A	
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	7470A	
400-194965-23	SW-9-1FT	Total/NA	Water	7470A	
400-194965-24	SW-9-1FT-FF	Dissolved	Water	7470A	
400-194965-25	SW-9-4FT	Total/NA	Water	7470A	
400-194965-26	SW-9-4FT-FF	Dissolved	Water	7470A	
MB 400-508539/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-508539/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-195022-AC-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-195022-AC-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 508542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-27	SW-10-2FT	Total/NA	Water	7470A	
400-194965-28	SW-10-2FT-FF	Dissolved	Water	7470A	
400-194965-29	SW-11-1FT	Total/NA	Water	7470A	
400-194965-30	SW-11-1FT-FF	Dissolved	Water	7470A	
400-194965-31	SW-12-1FT	Total/NA	Water	7470A	
400-194965-32	SW-12-1FT-FF	Dissolved	Water	7470A	
400-194965-33	SW-13-1FT	Total/NA	Water	7470A	
400-194965-34	SW-13-1FT-FF	Dissolved	Water	7470A	
400-194965-35	SW-14-1.5FT	Total/NA	Water	7470A	
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	7470A	
400-194965-37	SW-15-1.5FT	Total/NA	Water	7470A	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Metals (Continued)

Prep Batch: 508542 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	7470A	
400-194965-39	SW-16-1.5FT	Total/NA	Water	7470A	
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	7470A	
400-194965-41	SW-17-1FT	Total/NA	Water	7470A	
400-194965-42	SW-17-1FT-FF	Dissolved	Water	7470A	
400-194965-43	EB-01	Total/NA	Water	7470A	
400-194965-44	EB-02	Total/NA	Water	7470A	
400-194965-45	DUP-01	Total/NA	Water	7470A	
400-194965-46	DUP-01-FF	Dissolved	Water	7470A	
MB 400-508542/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-508542/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-194965-27 MS	SW-10-2FT	Total/NA	Water	7470A	
400-194965-27 MSD	SW-10-2FT	Total/NA	Water	7470A	

Analysis Batch: 508647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-1	SW-1-1FT	Total/NA	Water	7470A	508475
400-194965-2	SW-1-1FT-FF	Dissolved	Water	7470A	508475
400-194965-3	SW-1-7FT	Total/NA	Water	7470A	508475
400-194965-4	SW-1-7FT-FF	Dissolved	Water	7470A	508475
400-194965-5	SW-2-1FT	Total/NA	Water	7470A	508475
400-194965-6	SW-2-1FT-FF	Dissolved	Water	7470A	508475
400-194965-7	SW-2-7FT	Total/NA	Water	7470A	508475
400-194965-8	SW-2-7FT-FF	Dissolved	Water	7470A	508475
400-194965-9	SW-3-1FT	Total/NA	Water	7470A	508475
400-194965-10	SW-3-1FT-FF	Dissolved	Water	7470A	508539
400-194965-11	SW-3-4FT	Total/NA	Water	7470A	508539
400-194965-12	SW-3-4FT-FF	Dissolved	Water	7470A	508539
400-194965-13	SW-4-1.5FT	Total/NA	Water	7470A	508539
400-194965-14	SW-4-1.5FT-FF	Dissolved	Water	7470A	508539
400-194965-15	SW-5-1FT	Total/NA	Water	7470A	508539
400-194965-16	SW-5-1FT-FF	Dissolved	Water	7470A	508539
400-194965-17	SW-5-13FT	Total/NA	Water	7470A	508539
400-194965-18	SW-5-13FT-FF	Dissolved	Water	7470A	508539
400-194965-19	SW-6-1FT	Total/NA	Water	7470A	508539
400-194965-20	SW-6-1FT-FF	Dissolved	Water	7470A	508539
400-194965-21	SW-6-9.5FT	Total/NA	Water	7470A	508539
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	7470A	508539
400-194965-23	SW-9-1FT	Total/NA	Water	7470A	508539
400-194965-24	SW-9-1FT-FF	Dissolved	Water	7470A	508539
400-194965-25	SW-9-4FT	Total/NA	Water	7470A	508539
400-194965-26	SW-9-4FT-FF	Dissolved	Water	7470A	508539
400-194965-27	SW-10-2FT	Total/NA	Water	7470A	508542
400-194965-28	SW-10-2FT-FF	Dissolved	Water	7470A	508542
400-194965-29	SW-11-1FT	Total/NA	Water	7470A	508542
400-194965-30	SW-11-1FT-FF	Dissolved	Water	7470A	508542
400-194965-31	SW-12-1FT	Total/NA	Water	7470A	508542
400-194965-32	SW-12-1FT-FF	Dissolved	Water	7470A	508542
400-194965-33	SW-13-1FT	Total/NA	Water	7470A	508542
400-194965-34	SW-13-1FT-FF	Dissolved	Water	7470A	508542
400-194965-35	SW-14-1.5FT	Total/NA	Water	7470A	508542

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Metals (Continued)

Analysis Batch: 508647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	7470A	508542
400-194965-37	SW-15-1.5FT	Total/NA	Water	7470A	508542
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	7470A	508542
400-194965-39	SW-16-1.5FT	Total/NA	Water	7470A	508542
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	7470A	508542
400-194965-41	SW-17-1FT	Total/NA	Water	7470A	508542
400-194965-42	SW-17-1FT-FF	Dissolved	Water	7470A	508542
400-194965-43	EB-01	Total/NA	Water	7470A	508542
400-194965-44	EB-02	Total/NA	Water	7470A	508542
400-194965-45	DUP-01	Total/NA	Water	7470A	508542
400-194965-46	DUP-01-FF	Dissolved	Water	7470A	508542
MB 400-508475/14-A	Method Blank	Total/NA	Water	7470A	508475
MB 400-508539/14-A	Method Blank	Total/NA	Water	7470A	508539
MB 400-508542/14-A	Method Blank	Total/NA	Water	7470A	508542
LCS 400-508475/15-A	Lab Control Sample	Total/NA	Water	7470A	508475
LCS 400-508539/15-A	Lab Control Sample	Total/NA	Water	7470A	508539
LCS 400-508542/15-A	Lab Control Sample	Total/NA	Water	7470A	508542
400-194965-27 MS	SW-10-2FT	Total/NA	Water	7470A	508542
400-194965-27 MSD	SW-10-2FT	Total/NA	Water	7470A	508542
400-195015-J-1-B MS	Matrix Spike	Total/NA	Water	7470A	508475
400-195015-J-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	508475
400-195022-AC-1-B MS	Matrix Spike	Total/NA	Water	7470A	508539
400-195022-AC-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	508539

Prep Batch: 508722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-47	DUP-02	Total/NA	Water	7470A	
400-194965-48	DUP-02-FF	Dissolved	Water	7470A	
400-194965-49	DUP-03	Total/NA	Water	7470A	
400-194965-50	DUP-03-FF	Dissolved	Water	7470A	
MB 400-508722/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-508722/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-194965-47 MS	DUP-02	Total/NA	Water	7470A	
400-194965-47 MSD	DUP-02	Total/NA	Water	7470A	

Prep Batch: 508778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-21	SW-6-9.5FT	Total Recoverable	Water	3005A	
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	3005A	
400-194965-23	SW-9-1FT	Total Recoverable	Water	3005A	
400-194965-24	SW-9-1FT-FF	Dissolved	Water	3005A	
400-194965-25	SW-9-4FT	Total Recoverable	Water	3005A	
400-194965-26	SW-9-4FT-FF	Dissolved	Water	3005A	
400-194965-27	SW-10-2FT	Total Recoverable	Water	3005A	
400-194965-28	SW-10-2FT-FF	Dissolved	Water	3005A	
400-194965-29	SW-11-1FT	Total Recoverable	Water	3005A	
400-194965-30	SW-11-1FT-FF	Dissolved	Water	3005A	
400-194965-31	SW-12-1FT	Total Recoverable	Water	3005A	
400-194965-32	SW-12-1FT-FF	Dissolved	Water	3005A	
400-194965-33	SW-13-1FT	Total Recoverable	Water	3005A	
400-194965-34	SW-13-1FT-FF	Dissolved	Water	3005A	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Metals (Continued)

Prep Batch: 508778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-35	SW-14-1.5FT	Total Recoverable	Water	3005A	
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	3005A	
400-194965-37	SW-15-1.5FT	Total Recoverable	Water	3005A	
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	3005A	
400-194965-39	SW-16-1.5FT	Total Recoverable	Water	3005A	
MB 400-508778/1-A ^25	Method Blank	Total Recoverable	Water	3005A	
MB 400-508778/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-508778/2-A ^25	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 400-508778/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-194965-21 MS	SW-6-9.5FT	Total Recoverable	Water	3005A	
400-194965-21 MSD	SW-6-9.5FT	Total Recoverable	Water	3005A	

Prep Batch: 508920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-41	SW-17-1FT	Total Recoverable	Water	3005A	
400-194965-43	EB-01	Total Recoverable	Water	3005A	
400-194965-44	EB-02	Total Recoverable	Water	3005A	
MB 400-508920/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-508920/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-194806-F-27-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-194806-F-27-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 508948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-47	DUP-02	Total/NA	Water	7470A	508722
400-194965-48	DUP-02-FF	Dissolved	Water	7470A	508722
400-194965-49	DUP-03	Total/NA	Water	7470A	508722
400-194965-50	DUP-03-FF	Dissolved	Water	7470A	508722
MB 400-508722/14-A	Method Blank	Total/NA	Water	7470A	508722
LCS 400-508722/15-A	Lab Control Sample	Total/NA	Water	7470A	508722
400-194965-47 MS	DUP-02	Total/NA	Water	7470A	508722
400-194965-47 MSD	DUP-02	Total/NA	Water	7470A	508722

Prep Batch: 509021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	3005A	
400-194965-42	SW-17-1FT-FF	Dissolved	Water	3005A	
400-194965-45	DUP-01	Total Recoverable	Water	3005A	
400-194965-46	DUP-01-FF	Dissolved	Water	3005A	
400-194965-47	DUP-02	Total Recoverable	Water	3005A	
400-194965-48	DUP-02-FF	Dissolved	Water	3005A	
400-194965-49	DUP-03	Total Recoverable	Water	3005A	
400-194965-50	DUP-03-FF	Dissolved	Water	3005A	
MB 400-509021/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-509021/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-195090-D-1-B MS ^200	Matrix Spike	Total Recoverable	Water	3005A	
400-195090-D-1-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-195090-D-1-C MSD ^200	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
400-195090-D-1-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Metals

Analysis Batch: 509092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-41	SW-17-1FT	Total Recoverable	Water	6020	508920
400-194965-43	EB-01	Total Recoverable	Water	6020	508920
400-194965-43	EB-01	Total Recoverable	Water	SM 2340B	508920
400-194965-44	EB-02	Total Recoverable	Water	6020	508920
400-194965-44	EB-02	Total Recoverable	Water	SM 2340B	508920
MB 400-508920/1-A ^5	Method Blank	Total Recoverable	Water	6020	508920
LCS 400-508920/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	508920
400-194806-F-27-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	508920
400-194806-F-27-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	508920

Analysis Batch: 509241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	6020	509021
400-194965-42	SW-17-1FT-FF	Dissolved	Water	6020	509021
400-194965-45	DUP-01	Total Recoverable	Water	6020	509021
400-194965-46	DUP-01-FF	Dissolved	Water	6020	509021
400-194965-47	DUP-02	Total Recoverable	Water	6020	509021
400-194965-48	DUP-02-FF	Dissolved	Water	6020	509021
400-194965-49	DUP-03	Total Recoverable	Water	6020	509021
400-194965-50	DUP-03-FF	Dissolved	Water	6020	509021
MB 400-509021/1-A ^5	Method Blank	Total Recoverable	Water	6020	509021
LCS 400-509021/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	509021
400-195090-D-1-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	509021
400-195090-D-1-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	509021

Analysis Batch: 509632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-21	SW-6-9.5FT	Total Recoverable	Water	6020	508778
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	6020	508778
400-194965-23	SW-9-1FT	Total Recoverable	Water	6020	508778
400-194965-24	SW-9-1FT-FF	Dissolved	Water	6020	508778
400-194965-25	SW-9-4FT	Total Recoverable	Water	6020	508778
400-194965-26	SW-9-4FT-FF	Dissolved	Water	6020	508778
400-194965-27	SW-10-2FT	Total Recoverable	Water	6020	508778
400-194965-28	SW-10-2FT-FF	Dissolved	Water	6020	508778
400-194965-29	SW-11-1FT	Total Recoverable	Water	6020	508778
400-194965-30	SW-11-1FT-FF	Dissolved	Water	6020	508778
400-194965-31	SW-12-1FT	Total Recoverable	Water	6020	508778
400-194965-32	SW-12-1FT-FF	Dissolved	Water	6020	508778
400-194965-33	SW-13-1FT	Total Recoverable	Water	6020	508778
400-194965-34	SW-13-1FT-FF	Dissolved	Water	6020	508778
400-194965-35	SW-14-1.5FT	Total Recoverable	Water	6020	508778
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	6020	508778
400-194965-37	SW-15-1.5FT	Total Recoverable	Water	6020	508778
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	6020	508778
400-194965-39	SW-16-1.5FT	Total Recoverable	Water	6020	508778
400-194965-41	SW-17-1FT	Total Recoverable	Water	6020	508920
400-194965-41	SW-17-1FT	Total Recoverable	Water	SM 2340B	508920
400-194965-44	EB-02	Total Recoverable	Water	6020	508920
MB 400-508920/1-A ^5	Method Blank	Total Recoverable	Water	6020	508920
LCS 400-508920/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	508920

Eurofins TestAmerica, Pensacola

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Metals (Continued)

Analysis Batch: 509632 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194806-F-27-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	508920
400-194806-F-27-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	508920
400-194965-21 MS	SW-6-9.5FT	Total Recoverable	Water	6020	508778
400-194965-21 MSD	SW-6-9.5FT	Total Recoverable	Water	6020	508778

Analysis Batch: 509890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-41	SW-17-1FT	Total Recoverable	Water	6020	508920
400-194965-43	EB-01	Total Recoverable	Water	6020	508920

Analysis Batch: 510079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	6020	509021
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	SM 2340B	509021
400-194965-42	SW-17-1FT-FF	Dissolved	Water	6020	509021
400-194965-42	SW-17-1FT-FF	Dissolved	Water	6020	509021
400-194965-42	SW-17-1FT-FF	Dissolved	Water	SM 2340B	509021
400-194965-45	DUP-01	Total Recoverable	Water	6020	509021
400-194965-45	DUP-01	Total Recoverable	Water	SM 2340B	509021
400-194965-46	DUP-01-FF	Dissolved	Water	6020	509021
400-194965-46	DUP-01-FF	Dissolved	Water	SM 2340B	509021
400-194965-47	DUP-02	Total Recoverable	Water	6020	509021
400-194965-47	DUP-02	Total Recoverable	Water	SM 2340B	509021
400-194965-48	DUP-02-FF	Dissolved	Water	6020	509021
400-194965-48	DUP-02-FF	Dissolved	Water	SM 2340B	509021
400-194965-49	DUP-03	Total Recoverable	Water	6020	509021
400-194965-49	DUP-03	Total Recoverable	Water	SM 2340B	509021
400-194965-50	DUP-03-FF	Dissolved	Water	6020	509021
400-194965-50	DUP-03-FF	Dissolved	Water	SM 2340B	509021
MB 400-509021/1-A ^5	Method Blank	Total Recoverable	Water	6020	509021
LCS 400-509021/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	509021
400-195090-D-1-B MS ^200	Matrix Spike	Total Recoverable	Water	6020	509021
400-195090-D-1-C MSD ^200	Matrix Spike Duplicate	Total Recoverable	Water	6020	509021

Analysis Batch: 510209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	6020	509021
400-194965-42	SW-17-1FT-FF	Dissolved	Water	6020	509021
400-194965-45	DUP-01	Total Recoverable	Water	6020	509021
400-194965-46	DUP-01-FF	Dissolved	Water	6020	509021
400-194965-47	DUP-02	Total Recoverable	Water	6020	509021
400-194965-48	DUP-02-FF	Dissolved	Water	6020	509021
400-194965-49	DUP-03	Total Recoverable	Water	6020	509021
400-194965-50	DUP-03-FF	Dissolved	Water	6020	509021
MB 400-509021/1-A ^5	Method Blank	Total Recoverable	Water	6020	509021
LCS 400-509021/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	509021
400-195090-D-1-B MS ^200	Matrix Spike	Total Recoverable	Water	6020	509021
400-195090-D-1-C MSD ^200	Matrix Spike Duplicate	Total Recoverable	Water	6020	509021

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Metals

Analysis Batch: 510349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-21	SW-6-9.5FT	Total Recoverable	Water	6020	508778
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	6020	508778
400-194965-23	SW-9-1FT	Total Recoverable	Water	6020	508778
400-194965-24	SW-9-1FT-FF	Dissolved	Water	6020	508778
400-194965-25	SW-9-4FT	Total Recoverable	Water	6020	508778
400-194965-26	SW-9-4FT-FF	Dissolved	Water	6020	508778
400-194965-27	SW-10-2FT	Total Recoverable	Water	6020	508778
400-194965-28	SW-10-2FT-FF	Dissolved	Water	6020	508778
400-194965-29	SW-11-1FT	Total Recoverable	Water	6020	508778
400-194965-30	SW-11-1FT-FF	Dissolved	Water	6020	508778
400-194965-31	SW-12-1FT	Total Recoverable	Water	6020	508778
400-194965-32	SW-12-1FT-FF	Dissolved	Water	6020	508778
400-194965-33	SW-13-1FT	Total Recoverable	Water	6020	508778
400-194965-34	SW-13-1FT-FF	Dissolved	Water	6020	508778
400-194965-35	SW-14-1.5FT	Total Recoverable	Water	6020	508778
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	6020	508778
400-194965-37	SW-15-1.5FT	Total Recoverable	Water	6020	508778
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	6020	508778
400-194965-39	SW-16-1.5FT	Total Recoverable	Water	6020	508778
MB 400-508778/1-A ^25	Method Blank	Total Recoverable	Water	6020	508778
LCS 400-508778/2-A ^25	Lab Control Sample	Total Recoverable	Water	6020	508778
400-194965-21 MS	SW-6-9.5FT	Total Recoverable	Water	6020	508778
400-194965-21 MSD	SW-6-9.5FT	Total Recoverable	Water	6020	508778

Analysis Batch: 510590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-21	SW-6-9.5FT	Total Recoverable	Water	6020	508778
400-194965-21	SW-6-9.5FT	Total Recoverable	Water	SM 2340B	508778
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	6020	508778
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	SM 2340B	508778
400-194965-23	SW-9-1FT	Total Recoverable	Water	6020	508778
400-194965-23	SW-9-1FT	Total Recoverable	Water	SM 2340B	508778
400-194965-24	SW-9-1FT-FF	Dissolved	Water	6020	508778
400-194965-24	SW-9-1FT-FF	Dissolved	Water	SM 2340B	508778
400-194965-25	SW-9-4FT	Total Recoverable	Water	6020	508778
400-194965-25	SW-9-4FT	Total Recoverable	Water	SM 2340B	508778
400-194965-26	SW-9-4FT-FF	Dissolved	Water	6020	508778
400-194965-26	SW-9-4FT-FF	Dissolved	Water	SM 2340B	508778
400-194965-27	SW-10-2FT	Total Recoverable	Water	6020	508778
400-194965-27	SW-10-2FT	Total Recoverable	Water	SM 2340B	508778
400-194965-28	SW-10-2FT-FF	Dissolved	Water	6020	508778
400-194965-28	SW-10-2FT-FF	Dissolved	Water	SM 2340B	508778
400-194965-29	SW-11-1FT	Total Recoverable	Water	6020	508778
400-194965-29	SW-11-1FT	Total Recoverable	Water	SM 2340B	508778
400-194965-30	SW-11-1FT-FF	Dissolved	Water	6020	508778
400-194965-30	SW-11-1FT-FF	Dissolved	Water	SM 2340B	508778
400-194965-31	SW-12-1FT	Total Recoverable	Water	6020	508778
400-194965-31	SW-12-1FT	Total Recoverable	Water	SM 2340B	508778
400-194965-32	SW-12-1FT-FF	Dissolved	Water	6020	508778
400-194965-32	SW-12-1FT-FF	Dissolved	Water	SM 2340B	508778
400-194965-33	SW-13-1FT	Total Recoverable	Water	6020	508778

Eurofins TestAmerica, Pensacola

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Metals (Continued)

Analysis Batch: 510590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-33	SW-13-1FT	Total Recoverable	Water	SM 2340B	508778
400-194965-34	SW-13-1FT-FF	Dissolved	Water	6020	508778
400-194965-34	SW-13-1FT-FF	Dissolved	Water	SM 2340B	508778
400-194965-35	SW-14-1.5FT	Total Recoverable	Water	SM 2340B	508778
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	SM 2340B	508778
400-194965-37	SW-15-1.5FT	Total Recoverable	Water	6020	508778
400-194965-37	SW-15-1.5FT	Total Recoverable	Water	SM 2340B	508778
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	SM 2340B	508778
400-194965-39	SW-16-1.5FT	Total Recoverable	Water	6020	508778
400-194965-39	SW-16-1.5FT	Total Recoverable	Water	SM 2340B	508778
MB 400-508778/1-A ^25	Method Blank	Total Recoverable	Water	6020	508778
LCS 400-508778/2-A ^25	Lab Control Sample	Total Recoverable	Water	6020	508778
400-194965-21 MS	SW-6-9.5FT	Total Recoverable	Water	6020	508778
400-194965-21 MSD	SW-6-9.5FT	Total Recoverable	Water	6020	508778

Prep Batch: 510664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-1	SW-1-1FT	Total Recoverable	Water	3005A	
400-194965-2	SW-1-1FT-FF	Dissolved	Water	3005A	
400-194965-3	SW-1-7FT	Total Recoverable	Water	3005A	
400-194965-4	SW-1-7FT-FF	Dissolved	Water	3005A	
400-194965-5	SW-2-1FT	Total Recoverable	Water	3005A	
400-194965-6	SW-2-1FT-FF	Dissolved	Water	3005A	
400-194965-7	SW-2-7FT	Total Recoverable	Water	3005A	
400-194965-8	SW-2-7FT-FF	Dissolved	Water	3005A	
400-194965-9	SW-3-1FT	Total Recoverable	Water	3005A	
400-194965-10	SW-3-1FT-FF	Dissolved	Water	3005A	
400-194965-11	SW-3-4FT	Total Recoverable	Water	3005A	
400-194965-12	SW-3-4FT-FF	Dissolved	Water	3005A	
400-194965-13	SW-4-1.5FT	Total Recoverable	Water	3005A	
400-194965-14	SW-4-1.5FT-FF	Dissolved	Water	3005A	
400-194965-15	SW-5-1FT	Total Recoverable	Water	3005A	
400-194965-16	SW-5-1FT-FF	Dissolved	Water	3005A	
400-194965-17	SW-5-13FT	Total Recoverable	Water	3005A	
400-194965-18	SW-5-13FT-FF	Dissolved	Water	3005A	
400-194965-19	SW-6-1FT	Total Recoverable	Water	3005A	
400-194965-20	SW-6-1FT-FF	Dissolved	Water	3005A	
MB 400-510664/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-510664/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-194965-2 MS	SW-1-1FT-FF	Dissolved	Water	3005A	
400-194965-2 MSD	SW-1-1FT-FF	Dissolved	Water	3005A	

Analysis Batch: 511070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-1	SW-1-1FT	Total Recoverable	Water	6020	510664
400-194965-1	SW-1-1FT	Total Recoverable	Water	SM 2340B	510664
400-194965-2	SW-1-1FT-FF	Dissolved	Water	6020	510664
400-194965-2	SW-1-1FT-FF	Dissolved	Water	SM 2340B	510664
400-194965-3	SW-1-7FT	Total Recoverable	Water	6020	510664
400-194965-3	SW-1-7FT	Total Recoverable	Water	SM 2340B	510664
400-194965-4	SW-1-7FT-FF	Dissolved	Water	6020	510664

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Metals (Continued)

Analysis Batch: 511070 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-4	SW-1-7FT-FF	Dissolved	Water	SM 2340B	510664
400-194965-5	SW-2-1FT	Total Recoverable	Water	6020	510664
400-194965-5	SW-2-1FT	Total Recoverable	Water	SM 2340B	510664
400-194965-6	SW-2-1FT-FF	Dissolved	Water	6020	510664
400-194965-6	SW-2-1FT-FF	Dissolved	Water	SM 2340B	510664
400-194965-7	SW-2-7FT	Total Recoverable	Water	6020	510664
400-194965-7	SW-2-7FT	Total Recoverable	Water	SM 2340B	510664
400-194965-8	SW-2-7FT-FF	Dissolved	Water	6020	510664
400-194965-8	SW-2-7FT-FF	Dissolved	Water	SM 2340B	510664
400-194965-9	SW-3-1FT	Total Recoverable	Water	6020	510664
400-194965-9	SW-3-1FT	Total Recoverable	Water	SM 2340B	510664
400-194965-10	SW-3-1FT-FF	Dissolved	Water	6020	510664
400-194965-10	SW-3-1FT-FF	Dissolved	Water	SM 2340B	510664
400-194965-11	SW-3-4FT	Total Recoverable	Water	6020	510664
400-194965-11	SW-3-4FT	Total Recoverable	Water	SM 2340B	510664
400-194965-12	SW-3-4FT-FF	Dissolved	Water	6020	510664
400-194965-12	SW-3-4FT-FF	Dissolved	Water	SM 2340B	510664
400-194965-13	SW-4-1.5FT	Total Recoverable	Water	6020	510664
400-194965-13	SW-4-1.5FT	Total Recoverable	Water	SM 2340B	510664
400-194965-14	SW-4-1.5FT-FF	Dissolved	Water	6020	510664
400-194965-14	SW-4-1.5FT-FF	Dissolved	Water	SM 2340B	510664
400-194965-15	SW-5-1FT	Total Recoverable	Water	6020	510664
400-194965-15	SW-5-1FT	Total Recoverable	Water	SM 2340B	510664
400-194965-16	SW-5-1FT-FF	Dissolved	Water	6020	510664
400-194965-16	SW-5-1FT-FF	Dissolved	Water	SM 2340B	510664
400-194965-17	SW-5-13FT	Total Recoverable	Water	6020	510664
400-194965-17	SW-5-13FT	Total Recoverable	Water	SM 2340B	510664
400-194965-18	SW-5-13FT-FF	Dissolved	Water	6020	510664
400-194965-18	SW-5-13FT-FF	Dissolved	Water	SM 2340B	510664
400-194965-19	SW-6-1FT	Total Recoverable	Water	6020	510664
400-194965-19	SW-6-1FT	Total Recoverable	Water	SM 2340B	510664
400-194965-20	SW-6-1FT-FF	Dissolved	Water	6020	510664
400-194965-20	SW-6-1FT-FF	Dissolved	Water	SM 2340B	510664
MB 400-510664/1-A ^5	Method Blank	Total Recoverable	Water	6020	510664
LCS 400-510664/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	510664
400-194965-2 MS	SW-1-1FT-FF	Dissolved	Water	6020	510664
400-194965-2 MS	SW-1-1FT-FF	Dissolved	Water	SM 2340B	510664
400-194965-2 MSD	SW-1-1FT-FF	Dissolved	Water	6020	510664
400-194965-2 MSD	SW-1-1FT-FF	Dissolved	Water	SM 2340B	510664

Analysis Batch: 511844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-21	SW-6-9.5FT	Total Recoverable	Water	6020	508778
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	6020	508778
400-194965-23	SW-9-1FT	Total Recoverable	Water	6020	508778
400-194965-24	SW-9-1FT-FF	Dissolved	Water	6020	508778
400-194965-25	SW-9-4FT	Total Recoverable	Water	6020	508778
400-194965-26	SW-9-4FT-FF	Dissolved	Water	6020	508778
400-194965-27	SW-10-2FT	Total Recoverable	Water	6020	508778
400-194965-28	SW-10-2FT-FF	Dissolved	Water	6020	508778
400-194965-29	SW-11-1FT	Total Recoverable	Water	6020	508778

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Metals (Continued)

Analysis Batch: 511844 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-30	SW-11-1FT-FF	Dissolved	Water	6020	508778
400-194965-31	SW-12-1FT	Total Recoverable	Water	6020	508778
400-194965-32	SW-12-1FT-FF	Dissolved	Water	6020	508778
400-194965-33	SW-13-1FT	Total Recoverable	Water	6020	508778
400-194965-34	SW-13-1FT-FF	Dissolved	Water	6020	508778
400-194965-35	SW-14-1.5FT	Total Recoverable	Water	6020	508778
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	6020	508778
400-194965-37	SW-15-1.5FT	Total Recoverable	Water	6020	508778
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	6020	508778
400-194965-39	SW-16-1.5FT	Total Recoverable	Water	6020	508778
MB 400-508778/1-A ^5	Method Blank	Total Recoverable	Water	6020	508778
LCS 400-508778/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	508778
400-194965-21 MS	SW-6-9.5FT	Total Recoverable	Water	6020	508778
400-194965-21 MSD	SW-6-9.5FT	Total Recoverable	Water	6020	508778

Analysis Batch: 512204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-1	SW-1-1FT	Total Recoverable	Water	6020	510664
400-194965-2	SW-1-1FT-FF	Dissolved	Water	6020	510664
400-194965-3	SW-1-7FT	Total Recoverable	Water	6020	510664
400-194965-4	SW-1-7FT-FF	Dissolved	Water	6020	510664
400-194965-5	SW-2-1FT	Total Recoverable	Water	6020	510664
400-194965-6	SW-2-1FT-FF	Dissolved	Water	6020	510664
400-194965-7	SW-2-7FT	Total Recoverable	Water	6020	510664
400-194965-8	SW-2-7FT-FF	Dissolved	Water	6020	510664
400-194965-9	SW-3-1FT	Total Recoverable	Water	6020	510664
400-194965-10	SW-3-1FT-FF	Dissolved	Water	6020	510664
400-194965-11	SW-3-4FT	Total Recoverable	Water	6020	510664
400-194965-12	SW-3-4FT-FF	Dissolved	Water	6020	510664
400-194965-13	SW-4-1.5FT	Total Recoverable	Water	6020	510664
400-194965-14	SW-4-1.5FT-FF	Dissolved	Water	6020	510664
400-194965-15	SW-5-1FT	Total Recoverable	Water	6020	510664
400-194965-16	SW-5-1FT-FF	Dissolved	Water	6020	510664
400-194965-17	SW-5-13FT	Total Recoverable	Water	6020	510664
400-194965-18	SW-5-13FT-FF	Dissolved	Water	6020	510664
400-194965-19	SW-6-1FT	Total Recoverable	Water	6020	510664
400-194965-20	SW-6-1FT-FF	Dissolved	Water	6020	510664
MB 400-510664/1-A ^5	Method Blank	Total Recoverable	Water	6020	510664
LCS 400-510664/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	510664
400-194965-2 MS	SW-1-1FT-FF	Dissolved	Water	6020	510664
400-194965-2 MSD	SW-1-1FT-FF	Dissolved	Water	6020	510664

General Chemistry

Analysis Batch: 508839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-18	SW-5-13FT-FF	Dissolved	Water	SM 2540C	
400-194965-19	SW-6-1FT	Total/NA	Water	SM 2540C	
400-194965-20	SW-6-1FT-FF	Dissolved	Water	SM 2540C	
400-194965-21	SW-6-9.5FT	Total/NA	Water	SM 2540C	
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	SM 2540C	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

General Chemistry (Continued)

Analysis Batch: 508839 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-23	SW-9-1FT	Total/NA	Water	SM 2540C	
400-194965-24	SW-9-1FT-FF	Dissolved	Water	SM 2540C	
400-194965-25	SW-9-4FT	Total/NA	Water	SM 2540C	
400-194965-26	SW-9-4FT-FF	Dissolved	Water	SM 2540C	
400-194965-27	SW-10-2FT	Total/NA	Water	SM 2540C	
400-194965-28	SW-10-2FT-FF	Dissolved	Water	SM 2540C	
400-194965-29	SW-11-1FT	Total/NA	Water	SM 2540C	
400-194965-30	SW-11-1FT-FF	Dissolved	Water	SM 2540C	
400-194965-31	SW-12-1FT	Total/NA	Water	SM 2540C	
400-194965-32	SW-12-1FT-FF	Dissolved	Water	SM 2540C	
400-194965-33	SW-13-1FT	Total/NA	Water	SM 2540C	
400-194965-34	SW-13-1FT-FF	Dissolved	Water	SM 2540C	
400-194965-37	SW-15-1.5FT	Total/NA	Water	SM 2540C	
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	SM 2540C	
400-194965-39	SW-16-1.5FT	Total/NA	Water	SM 2540C	
MB 400-508839/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-508839/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-194965-31 DU	SW-12-1FT	Total/NA	Water	SM 2540C	
400-194965-32 DU	SW-12-1FT-FF	Dissolved	Water	SM 2540C	

Analysis Batch: 508841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-1	SW-1-1FT	Total/NA	Water	SM 2540C	
400-194965-2	SW-1-1FT-FF	Dissolved	Water	SM 2540C	
400-194965-3	SW-1-7FT	Total/NA	Water	SM 2540C	
400-194965-4	SW-1-7FT-FF	Dissolved	Water	SM 2540C	
400-194965-5	SW-2-1FT	Total/NA	Water	SM 2540C	
400-194965-6	SW-2-1FT-FF	Dissolved	Water	SM 2540C	
400-194965-7	SW-2-7FT	Total/NA	Water	SM 2540C	
400-194965-8	SW-2-7FT-FF	Dissolved	Water	SM 2540C	
400-194965-9	SW-3-1FT	Total/NA	Water	SM 2540C	
400-194965-10	SW-3-1FT-FF	Dissolved	Water	SM 2540C	
400-194965-11	SW-3-4FT	Total/NA	Water	SM 2540C	
400-194965-12	SW-3-4FT-FF	Dissolved	Water	SM 2540C	
400-194965-13	SW-4-1.5FT	Total/NA	Water	SM 2540C	
400-194965-14	SW-4-1.5FT-FF	Dissolved	Water	SM 2540C	
400-194965-15	SW-5-1FT	Total/NA	Water	SM 2540C	
400-194965-16	SW-5-1FT-FF	Dissolved	Water	SM 2540C	
400-194965-17	SW-5-13FT	Total/NA	Water	SM 2540C	
MB 400-508841/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-508841/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-194965-15 DU	SW-5-1FT	Total/NA	Water	SM 2540C	
400-194965-16 DU	SW-5-1FT-FF	Dissolved	Water	SM 2540C	

Analysis Batch: 508908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-35	SW-14-1.5FT	Total/NA	Water	SM 2540C	
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	SM 2540C	
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	SM 2540C	
400-194965-41	SW-17-1FT	Total/NA	Water	SM 2540C	
400-194965-42	SW-17-1FT-FF	Dissolved	Water	SM 2540C	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

General Chemistry (Continued)

Analysis Batch: 508908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-43	EB-01	Total/NA	Water	SM 2540C	
400-194965-44	EB-02	Total/NA	Water	SM 2540C	
400-194965-45	DUP-01	Total/NA	Water	SM 2540C	
400-194965-46	DUP-01-FF	Dissolved	Water	SM 2540C	
400-194965-47	DUP-02	Total/NA	Water	SM 2540C	
400-194965-48	DUP-02-FF	Dissolved	Water	SM 2540C	
400-194965-49	DUP-03	Total/NA	Water	SM 2540C	
400-194965-50	DUP-03-FF	Dissolved	Water	SM 2540C	
MB 400-508908/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-508908/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-194987-D-1 DU	Duplicate	Total/NA	Water	SM 2540C	
400-194987-D-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 509458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-20	SW-6-1FT-FF	Dissolved	Water	SM 2320B	
400-194965-21	SW-6-9.5FT	Total/NA	Water	SM 2320B	
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	SM 2320B	
400-194965-23	SW-9-1FT	Total/NA	Water	SM 2320B	
400-194965-24	SW-9-1FT-FF	Dissolved	Water	SM 2320B	
MB 400-509458/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 400-509458/5	Lab Control Sample	Total/NA	Water	SM 2320B	
400-194965-A-27 DU	400-194965-A-27 DU	Total/NA	Water	SM 2320B	

Analysis Batch: 509968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-1	SW-1-1FT	Total/NA	Water	SM 2320B	
400-194965-2	SW-1-1FT-FF	Dissolved	Water	SM 2320B	
400-194965-3	SW-1-7FT	Total/NA	Water	SM 2320B	
400-194965-4	SW-1-7FT-FF	Dissolved	Water	SM 2320B	
400-194965-5	SW-2-1FT	Total/NA	Water	SM 2320B	
400-194965-6	SW-2-1FT-FF	Dissolved	Water	SM 2320B	
400-194965-7	SW-2-7FT	Total/NA	Water	SM 2320B	
400-194965-8	SW-2-7FT-FF	Dissolved	Water	SM 2320B	
400-194965-9	SW-3-1FT	Total/NA	Water	SM 2320B	
400-194965-10	SW-3-1FT-FF	Dissolved	Water	SM 2320B	
400-194965-11	SW-3-4FT	Total/NA	Water	SM 2320B	
400-194965-12	SW-3-4FT-FF	Dissolved	Water	SM 2320B	
400-194965-13	SW-4-1.5FT	Total/NA	Water	SM 2320B	
MB 400-509968/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 400-509968/5	Lab Control Sample	Total/NA	Water	SM 2320B	
400-194965-4 DU	SW-1-7FT-FF	Dissolved	Water	SM 2320B	

Analysis Batch: 510023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-14	SW-4-1.5FT-FF	Dissolved	Water	SM 2320B	
400-194965-15	SW-5-1FT	Total/NA	Water	SM 2320B	
400-194965-16	SW-5-1FT-FF	Dissolved	Water	SM 2320B	
400-194965-17	SW-5-13FT	Total/NA	Water	SM 2320B	
400-194965-18	SW-5-13FT-FF	Dissolved	Water	SM 2320B	
400-194965-19	SW-6-1FT	Total/NA	Water	SM 2320B	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

General Chemistry (Continued)

Analysis Batch: 510023 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-25	SW-9-4FT	Total/NA	Water	SM 2320B	
400-194965-26	SW-9-4FT-FF	Dissolved	Water	SM 2320B	
400-194965-27	SW-10-2FT	Total/NA	Water	SM 2320B	
400-194965-28	SW-10-2FT-FF	Dissolved	Water	SM 2320B	
400-194965-29	SW-11-1FT	Total/NA	Water	SM 2320B	
400-194965-30	SW-11-1FT-FF	Dissolved	Water	SM 2320B	
400-194965-31	SW-12-1FT	Total/NA	Water	SM 2320B	
400-194965-32	SW-12-1FT-FF	Dissolved	Water	SM 2320B	
400-194965-33	SW-13-1FT	Total/NA	Water	SM 2320B	
400-194965-34	SW-13-1FT-FF	Dissolved	Water	SM 2320B	
400-194965-35	SW-14-1.5FT	Total/NA	Water	SM 2320B	
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	SM 2320B	
400-194965-37	SW-15-1.5FT	Total/NA	Water	SM 2320B	
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	SM 2320B	
MB 400-510023/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 400-510023/5	Lab Control Sample	Total/NA	Water	SM 2320B	
400-194965-14 DU	SW-4-1.5FT-FF	Dissolved	Water	SM 2320B	
400-194965-29 DU	SW-11-1FT	Total/NA	Water	SM 2320B	

Analysis Batch: 510024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-39	SW-16-1.5FT	Total/NA	Water	SM 2320B	
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	SM 2320B	
400-194965-41	SW-17-1FT	Total/NA	Water	SM 2320B	
400-194965-42	SW-17-1FT-FF	Dissolved	Water	SM 2320B	
400-194965-43	EB-01	Total/NA	Water	SM 2320B	
400-194965-44	EB-02	Total/NA	Water	SM 2320B	
400-194965-45	DUP-01	Total/NA	Water	SM 2320B	
400-194965-46	DUP-01-FF	Dissolved	Water	SM 2320B	
400-194965-47	DUP-02	Total/NA	Water	SM 2320B	
400-194965-48	DUP-02-FF	Dissolved	Water	SM 2320B	
400-194965-49	DUP-03	Total/NA	Water	SM 2320B	
400-194965-50	DUP-03-FF	Dissolved	Water	SM 2320B	
MB 400-510024/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 400-510024/5	Lab Control Sample	Total/NA	Water	SM 2320B	
400-194965-39 DU	SW-16-1.5FT	Total/NA	Water	SM 2320B	
400-194965-49 DU	DUP-03	Total/NA	Water	SM 2320B	

Analysis Batch: 510136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-1	SW-1-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-2	SW-1-1FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-3	SW-1-7FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-4	SW-1-7FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-5	SW-2-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-6	SW-2-1FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-7	SW-2-7FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-8	SW-2-7FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-9	SW-3-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-10	SW-3-1FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-11	SW-3-4FT	Total/NA	Water	SM 4500 Cl- E	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

General Chemistry (Continued)

Analysis Batch: 510136 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-12	SW-3-4FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-13	SW-4-1.5FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-14	SW-4-1.5FT-FF	Dissolved	Water	SM 4500 Cl- E	
MB 400-510136/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-510136/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-510136/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-194965-5 MS	SW-2-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-5 MSD	SW-2-1FT	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 510197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-15	SW-5-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-16	SW-5-1FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-18	SW-5-13FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-19	SW-6-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-20	SW-6-1FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-21	SW-6-9.5FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-23	SW-9-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-24	SW-9-1FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-25	SW-9-4FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-26	SW-9-4FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-27	SW-10-2FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-28	SW-10-2FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-29	SW-11-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-30	SW-11-1FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-31	SW-12-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-32	SW-12-1FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-33	SW-13-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-34	SW-13-1FT-FF	Dissolved	Water	SM 4500 Cl- E	
MB 400-510197/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-510197/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-510197/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-194965-15 MS	SW-5-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-15 MSD	SW-5-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-33 MS	SW-13-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-33 MSD	SW-13-1FT	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 510297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-17	SW-5-13FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-35	SW-14-1.5FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-37	SW-15-1.5FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-39	SW-16-1.5FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-41	SW-17-1FT	Total/NA	Water	SM 4500 Cl- E	
400-194965-42	SW-17-1FT-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-43	EB-01	Total/NA	Water	SM 4500 Cl- E	
400-194965-44	EB-02	Total/NA	Water	SM 4500 Cl- E	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

General Chemistry (Continued)

Analysis Batch: 510297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-45	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-194965-46	DUP-01-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-47	DUP-02	Total/NA	Water	SM 4500 Cl- E	
400-194965-48	DUP-02-FF	Dissolved	Water	SM 4500 Cl- E	
400-194965-49	DUP-03	Total/NA	Water	SM 4500 Cl- E	
400-194965-50	DUP-03-FF	Dissolved	Water	SM 4500 Cl- E	
MB 400-510297/5	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-510297/34	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-510297/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-195018-F-3 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-195018-F-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
400-195018-F-2 DU	Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 510568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-1	SW-1-1FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-2	SW-1-1FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-3	SW-1-7FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-4	SW-1-7FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-5	SW-2-1FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-6	SW-2-1FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-7	SW-2-7FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-8	SW-2-7FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-9	SW-3-1FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-10	SW-3-1FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-11	SW-3-4FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-12	SW-3-4FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-13	SW-4-1.5FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-14	SW-4-1.5FT-FF	Dissolved	Water	SM 4500 SO4 E	
MB 400-510568/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-510568/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-510568/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-195090-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-195090-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-195101-A-2 DU	Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 510572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-15	SW-5-1FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-16	SW-5-1FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-17	SW-5-13FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-18	SW-5-13FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-19	SW-6-1FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-20	SW-6-1FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-21	SW-6-9.5FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-23	SW-9-1FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-24	SW-9-1FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-25	SW-9-4FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-26	SW-9-4FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-27	SW-10-2FT	Total/NA	Water	SM 4500 SO4 E	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

General Chemistry (Continued)

Analysis Batch: 510572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-28	SW-10-2FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-29	SW-11-1FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-30	SW-11-1FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-31	SW-12-1FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-32	SW-12-1FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-33	SW-13-1FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-34	SW-13-1FT-FF	Dissolved	Water	SM 4500 SO4 E	
MB 400-510572/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-510572/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-510572/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-194965-15 MS	SW-5-1FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-15 MSD	SW-5-1FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-25 MS	SW-9-4FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-25 MSD	SW-9-4FT	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 510574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-35	SW-14-1.5FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-37	SW-15-1.5FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-39	SW-16-1.5FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-41	SW-17-1FT	Total/NA	Water	SM 4500 SO4 E	
400-194965-42	SW-17-1FT-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-43	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-194965-44	EB-02	Total/NA	Water	SM 4500 SO4 E	
400-194965-45	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-194965-46	DUP-01-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-47	DUP-02	Total/NA	Water	SM 4500 SO4 E	
400-194965-48	DUP-02-FF	Dissolved	Water	SM 4500 SO4 E	
400-194965-49	DUP-03	Total/NA	Water	SM 4500 SO4 E	
400-194965-50	DUP-03-FF	Dissolved	Water	SM 4500 SO4 E	
MB 400-510574/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-510574/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-510574/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-195105-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-195105-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-195106-C-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-195106-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 510672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-1	SW-1-1FT	Total/NA	Water	SM 4500 F C	
400-194965-2	SW-1-1FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-3	SW-1-7FT	Total/NA	Water	SM 4500 F C	
400-194965-4	SW-1-7FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-5	SW-2-1FT	Total/NA	Water	SM 4500 F C	
400-194965-6	SW-2-1FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-7	SW-2-7FT	Total/NA	Water	SM 4500 F C	
MB 400-510672/5	Method Blank	Total/NA	Water	SM 4500 F C	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

General Chemistry (Continued)

Analysis Batch: 510672 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-510672/8	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-194929-C-3 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-194929-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 510707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-8	SW-2-7FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-9	SW-3-1FT	Total/NA	Water	SM 4500 F C	
400-194965-10	SW-3-1FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-11	SW-3-4FT	Total/NA	Water	SM 4500 F C	
400-194965-12	SW-3-4FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-13	SW-4-1.5FT	Total/NA	Water	SM 4500 F C	
400-194965-14	SW-4-1.5FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-15	SW-5-1FT	Total/NA	Water	SM 4500 F C	
400-194965-16	SW-5-1FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-17	SW-5-13FT	Total/NA	Water	SM 4500 F C	
400-194965-18	SW-5-13FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-19	SW-6-1FT	Total/NA	Water	SM 4500 F C	
400-194965-20	SW-6-1FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-21	SW-6-9.5FT	Total/NA	Water	SM 4500 F C	
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-23	SW-9-1FT	Total/NA	Water	SM 4500 F C	
400-194965-24	SW-9-1FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-25	SW-9-4FT	Total/NA	Water	SM 4500 F C	
400-194965-26	SW-9-4FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-27	SW-10-2FT	Total/NA	Water	SM 4500 F C	
MB 400-510707/14	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-510707/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-194965-8 MS	SW-2-7FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-8 MSD	SW-2-7FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-18 MS	SW-5-13FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-18 MSD	SW-5-13FT-FF	Dissolved	Water	SM 4500 F C	

Analysis Batch: 510745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-28	SW-10-2FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-29	SW-11-1FT	Total/NA	Water	SM 4500 F C	
400-194965-30	SW-11-1FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-31	SW-12-1FT	Total/NA	Water	SM 4500 F C	
400-194965-32	SW-12-1FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-33	SW-13-1FT	Total/NA	Water	SM 4500 F C	
400-194965-34	SW-13-1FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-35	SW-14-1.5FT	Total/NA	Water	SM 4500 F C	
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-37	SW-15-1.5FT	Total/NA	Water	SM 4500 F C	
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-39	SW-16-1.5FT	Total/NA	Water	SM 4500 F C	
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-41	SW-17-1FT	Total/NA	Water	SM 4500 F C	
400-194965-42	SW-17-1FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-43	EB-01	Total/NA	Water	SM 4500 F C	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

General Chemistry (Continued)

Analysis Batch: 510745 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-44	EB-02	Total/NA	Water	SM 4500 F C	
400-194965-45	DUP-01	Total/NA	Water	SM 4500 F C	
400-194965-46	DUP-01-FF	Dissolved	Water	SM 4500 F C	
400-194965-47	DUP-02	Total/NA	Water	SM 4500 F C	
MB 400-510745/14	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-510745/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-194965-28 MS	SW-10-2FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-28 MSD	SW-10-2FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-38 MS	SW-15-1.5FT-FF	Dissolved	Water	SM 4500 F C	
400-194965-38 MSD	SW-15-1.5FT-FF	Dissolved	Water	SM 4500 F C	

Analysis Batch: 510913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-39	SW-16-1.5FT	Total/NA	Water	SM 2320B	
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	SM 2320B	
400-194965-41	SW-17-1FT	Total/NA	Water	SM 2320B	
400-194965-42	SW-17-1FT-FF	Dissolved	Water	SM 2320B	
400-194965-43	EB-01	Total/NA	Water	SM 2320B	
400-194965-44	EB-02	Total/NA	Water	SM 2320B	
400-194965-45	DUP-01	Total/NA	Water	SM 2320B	
400-194965-46	DUP-01-FF	Dissolved	Water	SM 2320B	
400-194965-47	DUP-02	Total/NA	Water	SM 2320B	
400-194965-48	DUP-02-FF	Dissolved	Water	SM 2320B	
400-194965-49	DUP-03	Total/NA	Water	SM 2320B	
400-194965-50	DUP-03-FF	Dissolved	Water	SM 2320B	
MB 400-510913/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 400-510913/5	Lab Control Sample	Total/NA	Water	SM 2320B	
400-194965-39 DU	SW-16-1.5FT	Total/NA	Water	SM 2320B	
400-194965-49 DU	DUP-03	Total/NA	Water	SM 2320B	

Analysis Batch: 511410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-48	DUP-02-FF	Dissolved	Water	SM 4500 F C	
400-194965-49	DUP-03	Total/NA	Water	SM 4500 F C	
400-194965-50	DUP-03-FF	Dissolved	Water	SM 4500 F C	
MB 400-511410/2	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-511410/36	Lab Control Sample	Total/NA	Water	SM 4500 F C	
240-139915-D-4 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
240-139915-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 508385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-1	SW-1-1FT	Total/NA	Water	Field Sampling	
400-194965-2	SW-1-1FT-FF	Total/NA	Water	Field Sampling	
400-194965-3	SW-1-7FT	Total/NA	Water	Field Sampling	
400-194965-4	SW-1-7FT-FF	Total/NA	Water	Field Sampling	
400-194965-5	SW-2-1FT	Total/NA	Water	Field Sampling	
400-194965-6	SW-2-1FT-FF	Total/NA	Water	Field Sampling	
400-194965-7	SW-2-7FT	Total/NA	Water	Field Sampling	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 508385 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-8	SW-2-7FT-FF	Total/NA	Water	Field Sampling	
400-194965-9	SW-3-1FT	Total/NA	Water	Field Sampling	
400-194965-10	SW-3-1FT-FF	Total/NA	Water	Field Sampling	
400-194965-11	SW-3-4FT	Total/NA	Water	Field Sampling	
400-194965-12	SW-3-4FT-FF	Total/NA	Water	Field Sampling	
400-194965-13	SW-4-1.5FT	Total/NA	Water	Field Sampling	
400-194965-14	SW-4-1.5FT-FF	Total/NA	Water	Field Sampling	
400-194965-15	SW-5-1FT	Total/NA	Water	Field Sampling	
400-194965-16	SW-5-1FT-FF	Total/NA	Water	Field Sampling	
400-194965-17	SW-5-13FT	Total/NA	Water	Field Sampling	
400-194965-18	SW-5-13FT-FF	Total/NA	Water	Field Sampling	
400-194965-19	SW-6-1FT	Total/NA	Water	Field Sampling	
400-194965-20	SW-6-1FT-FF	Total/NA	Water	Field Sampling	

Analysis Batch: 508387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-21	SW-6-9.5FT	Total/NA	Water	Field Sampling	
400-194965-22	SW-6-9.5FT-FF	Total/NA	Water	Field Sampling	
400-194965-23	SW-9-1FT	Total/NA	Water	Field Sampling	
400-194965-24	SW-9-1FT-FF	Total/NA	Water	Field Sampling	
400-194965-25	SW-9-4FT	Total/NA	Water	Field Sampling	
400-194965-26	SW-9-4FT-FF	Total/NA	Water	Field Sampling	
400-194965-27	SW-10-2FT	Total/NA	Water	Field Sampling	
400-194965-28	SW-10-2FT-FF	Total/NA	Water	Field Sampling	
400-194965-29	SW-11-1FT	Total/NA	Water	Field Sampling	
400-194965-30	SW-11-1FT-FF	Total/NA	Water	Field Sampling	
400-194965-31	SW-12-1FT	Total/NA	Water	Field Sampling	
400-194965-32	SW-12-1FT-FF	Total/NA	Water	Field Sampling	
400-194965-33	SW-13-1FT	Total/NA	Water	Field Sampling	
400-194965-34	SW-13-1FT-FF	Total/NA	Water	Field Sampling	
400-194965-35	SW-14-1.5FT	Total/NA	Water	Field Sampling	
400-194965-36	SW-14-1.5FT-FF	Total/NA	Water	Field Sampling	
400-194965-37	SW-15-1.5FT	Total/NA	Water	Field Sampling	
400-194965-38	SW-15-1.5FT-FF	Total/NA	Water	Field Sampling	
400-194965-39	SW-16-1.5FT	Total/NA	Water	Field Sampling	
400-194965-40	SW-16-1.5FT-FF	Total/NA	Water	Field Sampling	
400-194965-41	SW-17-1FT	Total/NA	Water	Field Sampling	
400-194965-42	SW-17-1FT-FF	Total/NA	Water	Field Sampling	
400-194965-45	DUP-01	Total/NA	Water	Field Sampling	
400-194965-46	DUP-01-FF	Total/NA	Water	Field Sampling	
400-194965-47	DUP-02	Total/NA	Water	Field Sampling	
400-194965-48	DUP-02-FF	Total/NA	Water	Field Sampling	
400-194965-49	DUP-03	Total/NA	Water	Field Sampling	
400-194965-50	DUP-03-FF	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-508778/1-A ^25
Matrix: Water
Analysis Batch: 510349

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 508778

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.00750	U	0.0125	0.00750	mg/L		10/30/20 13:01	11/11/20 11:09	25
Antimony, Dissolved	0.00750	U	0.0125	0.00750	mg/L		10/30/20 13:01	11/11/20 11:09	25
Barium	0.00350	U	0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 11:09	25
Barium, Dissolved	0.00350	U	0.0125	0.00350	mg/L		10/30/20 13:01	11/11/20 11:09	25
Beryllium	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 11:09	25
Beryllium, Dissolved	0.000850	U	0.0125	0.000850	mg/L		10/30/20 13:01	11/11/20 11:09	25
Boron	0.0900	U	0.250	0.0900	mg/L		10/30/20 13:01	11/11/20 11:09	25
Boron, Dissolved	0.0900	U	0.250	0.0900	mg/L		10/30/20 13:01	11/11/20 11:09	25
Cadmium	0.00140	U	0.0125	0.00140	mg/L		10/30/20 13:01	11/11/20 11:09	25
Cadmium, Dissolved	0.00140	U	0.0125	0.00140	mg/L		10/30/20 13:01	11/11/20 11:09	25
Calcium	0.6759	J	1.25	0.625	mg/L		10/30/20 13:01	11/11/20 11:09	25
Calcium, Dissolved	0.6759	J	1.25	0.625	mg/L		10/30/20 13:01	11/11/20 11:09	25
Chromium	0.00500	U	0.0125	0.00500	mg/L		10/30/20 13:01	11/11/20 11:09	25
Chromium, Dissolved	0.00500	U	0.0125	0.00500	mg/L		10/30/20 13:01	11/11/20 11:09	25
Cobalt	0.00280	U	0.0125	0.00280	mg/L		10/30/20 13:01	11/11/20 11:09	25
Cobalt, Dissolved	0.00280	U	0.0125	0.00280	mg/L		10/30/20 13:01	11/11/20 11:09	25
Lead	0.00145	U	0.00625	0.00145	mg/L		10/30/20 13:01	11/11/20 11:09	25
Lead, Dissolved	0.00145	U	0.00625	0.00145	mg/L		10/30/20 13:01	11/11/20 11:09	25
Lithium	0.00950	U	0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 11:09	25
Lithium, Dissolved	0.00950	U	0.0250	0.00950	mg/L		10/30/20 13:01	11/11/20 11:09	25
Molybdenum	0.0225	U	0.0750	0.0225	mg/L		10/30/20 13:01	11/11/20 11:09	25
Molybdenum, Dissolved	0.0225	U	0.0750	0.0225	mg/L		10/30/20 13:01	11/11/20 11:09	25
Selenium	0.00410	U	0.00625	0.00410	mg/L		10/30/20 13:01	11/11/20 11:09	25
Selenium, Dissolved	0.00410	U	0.00625	0.00410	mg/L		10/30/20 13:01	11/11/20 11:09	25
Thallium	0.000600	U	0.00250	0.000600	mg/L		10/30/20 13:01	11/11/20 11:09	25
Thallium, Dissolved	0.000600	U	0.00250	0.000600	mg/L		10/30/20 13:01	11/11/20 11:09	25

Lab Sample ID: MB 400-508778/1-A ^25
Matrix: Water
Analysis Batch: 510590

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 508778

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.00195	U	0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 02:11	25
Arsenic, Dissolved	0.00195	U	0.00625	0.00195	mg/L		10/30/20 13:01	11/13/20 02:11	25

Lab Sample ID: MB 400-508778/1-A ^5
Matrix: Water
Analysis Batch: 511844

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 508778

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.0180	U	0.0500	0.0180	mg/L		10/30/20 13:01	11/23/20 18:28	5
Boron, Dissolved	0.0180	U	0.0500	0.0180	mg/L		10/30/20 13:01	11/23/20 18:28	5

Lab Sample ID: LCS 400-508778/2-A ^25
Matrix: Water
Analysis Batch: 510349

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 508778

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: LCS 400-508778/2-A ^25
Matrix: Water
Analysis Batch: 510349

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 508778

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony, Dissolved	0.0500	0.05238		mg/L		105	80 - 120
Barium	0.0500	0.05588		mg/L		112	80 - 120
Barium, Dissolved	0.0500	0.05588		mg/L		112	80 - 120
Beryllium	0.0500	0.04938		mg/L		99	80 - 120
Beryllium, Dissolved	0.0500	0.04938		mg/L		99	80 - 120
Cadmium	0.0500	0.05178		mg/L		104	80 - 120
Cadmium, Dissolved	0.0500	0.05178		mg/L		104	80 - 120
Calcium	5.00	5.606		mg/L		112	80 - 120
Calcium, Dissolved	5.00	5.606		mg/L		112	80 - 120
Chromium	0.0500	0.05435		mg/L		109	80 - 120
Chromium, Dissolved	0.0500	0.05435		mg/L		109	80 - 120
Cobalt	0.0500	0.05665		mg/L		113	80 - 120
Cobalt, Dissolved	0.0500	0.05665		mg/L		113	80 - 120
Lead	0.0500	0.05363		mg/L		107	80 - 120
Lead, Dissolved	0.0500	0.05363		mg/L		107	80 - 120
Lithium	0.0500	0.04880		mg/L		98	80 - 120
Lithium, Dissolved	0.0500	0.04880		mg/L		98	80 - 120
Molybdenum	0.0500	0.05380	J	mg/L		108	80 - 120
Molybdenum, Dissolved	0.0500	0.05380	J	mg/L		108	80 - 120
Selenium	0.0500	0.05770		mg/L		115	80 - 120
Selenium, Dissolved	0.0500	0.05770		mg/L		115	80 - 120

Lab Sample ID: LCS 400-508778/2-A ^25
Matrix: Water
Analysis Batch: 510590

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 508778

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	0.0500	0.05098		mg/L		102	80 - 120
Arsenic, Dissolved	0.0500	0.05098		mg/L		102	80 - 120

Lab Sample ID: LCS 400-508778/2-A ^5
Matrix: Water
Analysis Batch: 511844

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 508778

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Boron	0.100	0.08690		mg/L		87	80 - 120
Boron, Dissolved	0.100	0.08690		mg/L		87	80 - 120

Lab Sample ID: 400-194965-21 MS
Matrix: Water
Analysis Batch: 509632

Client Sample ID: SW-6-9.5FT
Prep Type: Total Recoverable
Prep Batch: 508778

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Antimony	0.00150	U	0.0500	0.05605		mg/L		112	75 - 125
Antimony, Dissolved	0.00150	U	0.0500	0.05605		mg/L		112	75 - 125
Cadmium	0.000280	U	0.0500	0.05114		mg/L		102	75 - 125
Cadmium, Dissolved	0.000280	U	0.0500	0.05114		mg/L		102	75 - 125
Chromium	0.00103	J	0.0500	0.05100		mg/L		100	75 - 125
Chromium, Dissolved	0.00103	J	0.0500	0.05100		mg/L		100	75 - 125

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: 400-194965-21 MS

Matrix: Water

Analysis Batch: 509632

Client Sample ID: SW-6-9.5FT

Prep Type: Total Recoverable

Prep Batch: 508778

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
Cobalt	0.000615	J	0.0500	0.05315		mg/L		105	75 - 125
Cobalt, Dissolved	0.000615	J	0.0500	0.05315		mg/L		105	75 - 125
Lead	0.000400	J	0.0500	0.05252		mg/L		104	75 - 125
Lead, Dissolved	0.000400	J	0.0500	0.05252		mg/L		104	75 - 125
Molybdenum	0.00450	U	0.0500	0.05668		mg/L		113	75 - 125
Molybdenum, Dissolved	0.00450	U	0.0500	0.05668		mg/L		113	75 - 125
Selenium	0.000820	U	0.0500	0.05262		mg/L		105	75 - 125
Selenium, Dissolved	0.000820	U	0.0500	0.05262		mg/L		105	75 - 125
Thallium	0.000120	U	0.0100	0.009940		mg/L		99	75 - 125
Thallium, Dissolved	0.000120	U	0.0100	0.009940		mg/L		99	75 - 125

Lab Sample ID: 400-194965-21 MS

Matrix: Water

Analysis Batch: 510349

Client Sample ID: SW-6-9.5FT

Prep Type: Total Recoverable

Prep Batch: 508778

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
Antimony	0.00750	U	0.0500	0.05313		mg/L		106	75 - 125
Antimony, Dissolved	0.00750	U	0.0500	0.05313		mg/L		106	75 - 125
Barium	0.0606		0.0500	0.1142		mg/L		107	75 - 125
Barium, Dissolved	0.0606		0.0500	0.1142		mg/L		107	75 - 125
Beryllium	0.000850	U	0.0500	0.05853		mg/L		117	75 - 125
Beryllium, Dissolved	0.000850	U	0.0500	0.05853		mg/L		117	75 - 125
Boron	1.75	*	0.100	1.943	4	mg/L		197	75 - 125
Boron, Dissolved	1.75	*	0.100	1.943	4	mg/L		197	75 - 125
Cadmium	0.00140	U	0.0500	0.05728		mg/L		115	75 - 125
Cadmium, Dissolved	0.00140	U	0.0500	0.05728		mg/L		115	75 - 125
Calcium	162		5.00	161.5	4	mg/L		-11	75 - 125
Calcium, Dissolved	162		5.00	161.5	4	mg/L		-11	75 - 125
Chromium	0.00575	J	0.0500	0.05705		mg/L		103	75 - 125
Chromium, Dissolved	0.00575	J	0.0500	0.05705		mg/L		103	75 - 125
Cobalt	0.00280	U	0.0500	0.05505		mg/L		110	75 - 125
Cobalt, Dissolved	0.00280	U	0.0500	0.05505		mg/L		110	75 - 125
Lead	0.00145	U	0.0500	0.05395		mg/L		108	75 - 125
Lead, Dissolved	0.00145	U	0.0500	0.05395		mg/L		108	75 - 125
Lithium	0.0601	F1	0.0500	0.1245	F1	mg/L		129	75 - 125
Lithium, Dissolved	0.0601	F1	0.0500	0.1245	F1	mg/L		129	75 - 125
Molybdenum	0.0225	U	0.0500	0.05418	J	mg/L		108	75 - 125
Molybdenum, Dissolved	0.0225	U	0.0500	0.05418	J	mg/L		108	75 - 125
Selenium	0.00410	U	0.0500	0.05438		mg/L		109	75 - 125
Selenium, Dissolved	0.00410	U	0.0500	0.05438		mg/L		109	75 - 125

Lab Sample ID: 400-194965-21 MS

Matrix: Water

Analysis Batch: 510590

Client Sample ID: SW-6-9.5FT

Prep Type: Total Recoverable

Prep Batch: 508778

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
Antimony	0.00750	U	0.0500	0.04983		mg/L		100	75 - 125
Antimony, Dissolved	0.00750	U	0.0500	0.04983		mg/L		100	75 - 125
Arsenic	0.00728		0.0500	0.05353		mg/L		93	75 - 125

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: 400-194965-21 MS

Matrix: Water

Analysis Batch: 510590

Client Sample ID: SW-6-9.5FT

Prep Type: Total Recoverable

Prep Batch: 508778

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Arsenic, Dissolved	0.00728		0.0500	0.05353		mg/L		93	75 - 125	
Barium	0.0507		0.0500	0.1045		mg/L		108	75 - 125	
Barium, Dissolved	0.0507		0.0500	0.1045		mg/L		108	75 - 125	
Beryllium	0.000850	U	0.0500	0.04908		mg/L		98	75 - 125	
Beryllium, Dissolved	0.000850	U	0.0500	0.04908		mg/L		98	75 - 125	
Cadmium	0.00140	U	0.0500	0.04943		mg/L		99	75 - 125	
Cadmium, Dissolved	0.00140	U	0.0500	0.04943		mg/L		99	75 - 125	
Chromium	0.00500	U	0.0500	0.04998		mg/L		100	75 - 125	
Chromium, Dissolved	0.00500	U	0.0500	0.04998		mg/L		100	75 - 125	
Cobalt	0.00280	U	0.0500	0.05060		mg/L		101	75 - 125	
Cobalt, Dissolved	0.00280	U	0.0500	0.05060		mg/L		101	75 - 125	
Molybdenum	0.0225	U	0.0500	0.05488	J	mg/L		110	75 - 125	
Molybdenum, Dissolved	0.0225	U	0.0500	0.05488	J	mg/L		110	75 - 125	
Selenium	0.00410	U	0.0500	0.04723		mg/L		94	75 - 125	
Selenium, Dissolved	0.00410	U	0.0500	0.04723		mg/L		94	75 - 125	

Lab Sample ID: 400-194965-21 MS

Matrix: Water

Analysis Batch: 511844

Client Sample ID: SW-6-9.5FT

Prep Type: Total Recoverable

Prep Batch: 508778

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Boron	1.54		0.100	1.618	4	mg/L		82	75 - 125	
Boron, Dissolved	1.54		0.100	1.618	4	mg/L		82	75 - 125	

Lab Sample ID: 400-194965-21 MSD

Matrix: Water

Analysis Batch: 509632

Client Sample ID: SW-6-9.5FT

Prep Type: Total Recoverable

Prep Batch: 508778

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Antimony	0.00150	U	0.0500	0.05285		mg/L		106	75 - 125	6	20	
Antimony, Dissolved	0.00150	U	0.0500	0.05285		mg/L		106	75 - 125	6	20	
Cadmium	0.000280	U	0.0500	0.05251		mg/L		105	75 - 125	3	20	
Cadmium, Dissolved	0.000280	U	0.0500	0.05251		mg/L		105	75 - 125	3	20	
Chromium	0.00103	J	0.0500	0.05067		mg/L		99	75 - 125	1	20	
Chromium, Dissolved	0.00103	J	0.0500	0.05067		mg/L		99	75 - 125	1	20	
Cobalt	0.000615	J	0.0500	0.05291		mg/L		105	75 - 125	0	20	
Cobalt, Dissolved	0.000615	J	0.0500	0.05291		mg/L		105	75 - 125	0	20	
Lead	0.000400	J	0.0500	0.05291		mg/L		105	75 - 125	1	20	
Lead, Dissolved	0.000400	J	0.0500	0.05291		mg/L		105	75 - 125	1	20	
Molybdenum	0.00450	U	0.0500	0.05700		mg/L		114	75 - 125	1	20	
Molybdenum, Dissolved	0.00450	U	0.0500	0.05700		mg/L		114	75 - 125	1	20	
Selenium	0.000820	U	0.0500	0.05369		mg/L		107	75 - 125	2	20	
Selenium, Dissolved	0.000820	U	0.0500	0.05369		mg/L		107	75 - 125	2	20	
Thallium	0.000120	U	0.0100	0.009875		mg/L		99	75 - 125	1	20	
Thallium, Dissolved	0.000120	U	0.0100	0.009875		mg/L		99	75 - 125	1	20	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: 400-194965-21 MSD

Matrix: Water

Analysis Batch: 510349

Client Sample ID: SW-6-9.5FT

Prep Type: Total Recoverable

Prep Batch: 508778

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Antimony	0.00750	U	0.0500	0.05300		mg/L		106	75 - 125	0	20
Antimony, Dissolved	0.00750	U	0.0500	0.05300		mg/L		106	75 - 125	0	20
Barium	0.0606		0.0500	0.1103		mg/L		99	75 - 125	3	20
Barium, Dissolved	0.0606		0.0500	0.1103		mg/L		99	75 - 125	3	20
Beryllium	0.000850	U	0.0500	0.05015		mg/L		100	75 - 125	15	20
Beryllium, Dissolved	0.000850	U	0.0500	0.05015		mg/L		100	75 - 125	15	20
Boron	1.75	*	0.100	1.767	4	mg/L		21	75 - 125	9	20
Boron, Dissolved	1.75	*	0.100	1.767	4	mg/L		21	75 - 125	9	20
Cadmium	0.00140	U	0.0500	0.05160		mg/L		103	75 - 125	10	20
Cadmium, Dissolved	0.00140	U	0.0500	0.05160		mg/L		103	75 - 125	10	20
Calcium	162		5.00	158.1	4	mg/L		-78	75 - 125	2	20
Calcium, Dissolved	162		5.00	158.1	4	mg/L		-78	75 - 125	2	20
Chromium	0.00575	J	0.0500	0.05540		mg/L		99	75 - 125	3	20
Chromium, Dissolved	0.00575	J	0.0500	0.05540		mg/L		99	75 - 125	3	20
Cobalt	0.00280	U	0.0500	0.05390		mg/L		108	75 - 125	2	20
Cobalt, Dissolved	0.00280	U	0.0500	0.05390		mg/L		108	75 - 125	2	20
Lead	0.00145	U	0.0500	0.05313		mg/L		106	75 - 125	2	20
Lead, Dissolved	0.00145	U	0.0500	0.05313		mg/L		106	75 - 125	2	20
Lithium	0.0601	F1	0.0500	0.1029		mg/L		85	75 - 125	19	20
Lithium, Dissolved	0.0601	F1	0.0500	0.1029		mg/L		85	75 - 125	19	20
Molybdenum	0.0225	U	0.0500	0.05530	J	mg/L		111	75 - 125	2	20
Molybdenum, Dissolved	0.0225	U	0.0500	0.05530	J	mg/L		111	75 - 125	2	20
Selenium	0.00410	U	0.0500	0.05650		mg/L		113	75 - 125	4	20
Selenium, Dissolved	0.00410	U	0.0500	0.05650		mg/L		113	75 - 125	4	20

Lab Sample ID: 400-194965-21 MSD

Matrix: Water

Analysis Batch: 510590

Client Sample ID: SW-6-9.5FT

Prep Type: Total Recoverable

Prep Batch: 508778

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Antimony	0.00750	U	0.0500	0.04810		mg/L		96	75 - 125	4	20
Antimony, Dissolved	0.00750	U	0.0500	0.04810		mg/L		96	75 - 125	4	20
Arsenic	0.00728		0.0500	0.05690		mg/L		99	75 - 125	6	20
Arsenic, Dissolved	0.00728		0.0500	0.05690		mg/L		99	75 - 125	6	20
Barium	0.0507		0.0500	0.09308		mg/L		85	75 - 125	12	20
Barium, Dissolved	0.0507		0.0500	0.09308		mg/L		85	75 - 125	12	20
Beryllium	0.000850	U	0.0500	0.04893		mg/L		98	75 - 125	0	20
Beryllium, Dissolved	0.000850	U	0.0500	0.04893		mg/L		98	75 - 125	0	20
Cadmium	0.00140	U	0.0500	0.05083		mg/L		102	75 - 125	3	20
Cadmium, Dissolved	0.00140	U	0.0500	0.05083		mg/L		102	75 - 125	3	20
Chromium	0.00500	U	0.0500	0.04810		mg/L		96	75 - 125	4	20
Chromium, Dissolved	0.00500	U	0.0500	0.04810		mg/L		96	75 - 125	4	20
Cobalt	0.00280	U	0.0500	0.05143		mg/L		103	75 - 125	2	20
Cobalt, Dissolved	0.00280	U	0.0500	0.05143		mg/L		103	75 - 125	2	20
Molybdenum	0.0225	U	0.0500	0.05440	J	mg/L		109	75 - 125	1	20
Molybdenum, Dissolved	0.0225	U	0.0500	0.05440	J	mg/L		109	75 - 125	1	20
Selenium	0.00410	U	0.0500	0.05313		mg/L		106	75 - 125	12	20
Selenium, Dissolved	0.00410	U	0.0500	0.05313		mg/L		106	75 - 125	12	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: 400-194965-21 MSD

Matrix: Water

Analysis Batch: 511844

Client Sample ID: SW-6-9.5FT

Prep Type: Total Recoverable

Prep Batch: 508778

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Boron	1.54		0.100	1.676	4	mg/L		140	75 - 125	4	20
Boron, Dissolved	1.54		0.100	1.676	4	mg/L		140	75 - 125	4	20

Lab Sample ID: MB 400-508920/1-A ^5

Matrix: Water

Analysis Batch: 509092

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 508920

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.00150	U	0.00250	0.00150	mg/L		11/01/20 15:00	11/02/20 20:45	5
Barium	0.000700	U	0.00250	0.000700	mg/L		11/01/20 15:00	11/02/20 20:45	5
Beryllium	0.000170	U ^	0.00250	0.000170	mg/L		11/01/20 15:00	11/02/20 20:45	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		11/01/20 15:00	11/02/20 20:45	5
Calcium	0.125	U	0.250	0.125	mg/L		11/01/20 15:00	11/02/20 20:45	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		11/01/20 15:00	11/02/20 20:45	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		11/01/20 15:00	11/02/20 20:45	5
Lead	0.000290	U	0.00125	0.000290	mg/L		11/01/20 15:00	11/02/20 20:45	5
Lithium	0.002020	J	0.00500	0.00190	mg/L		11/01/20 15:00	11/02/20 20:45	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		11/01/20 15:00	11/02/20 20:45	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		11/01/20 15:00	11/02/20 20:45	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		11/01/20 15:00	11/02/20 20:45	5

Lab Sample ID: MB 400-508920/1-A ^5

Matrix: Water

Analysis Batch: 509632

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 508920

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.000390	U	0.00125	0.000390	mg/L		11/01/20 15:00	11/05/20 16:55	5
Boron	0.0180	U ^	0.0500	0.0180	mg/L		11/01/20 15:00	11/05/20 16:55	5

Lab Sample ID: LCS 400-508920/2-A ^5

Matrix: Water

Analysis Batch: 509092

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 508920

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Antimony	0.0500	0.04583		mg/L		92	80 - 120
Arsenic	0.0500	0.04593		mg/L		92	80 - 120
Barium	0.0500	0.04689		mg/L		94	80 - 120
Cadmium	0.0500	0.04593		mg/L		92	80 - 120
Calcium	5.00	4.447		mg/L		89	80 - 120
Chromium	0.0500	0.04801		mg/L		96	80 - 120
Cobalt	0.0500	0.04889		mg/L		98	80 - 120
Lead	0.0500	0.04814		mg/L		96	80 - 120
Lithium	0.0500	0.05512		mg/L		110	80 - 120
Molybdenum	0.0500	0.04786		mg/L		96	80 - 120
Selenium	0.0500	0.04791	^	mg/L		96	80 - 120
Thallium	0.0100	0.009485		mg/L		95	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: LCS 400-508920/2-A ^5
Matrix: Water
Analysis Batch: 509632

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 508920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.0500	0.05390	^	mg/L		108	80 - 120
Boron	0.100	0.1090	^	mg/L		109	80 - 120

Lab Sample ID: 400-194806-F-27-B MS ^5
Matrix: Water
Analysis Batch: 509092

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 508920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.00150	U	0.0500	0.05078		mg/L		102	75 - 125
Arsenic	0.00176		0.0500	0.04818		mg/L		93	75 - 125
Barium	0.153		0.0500	0.2013		mg/L		97	75 - 125
Cadmium	0.000280	U	0.0500	0.04785		mg/L		96	75 - 125
Calcium	45.6		5.00	49.78	4	mg/L		84	75 - 125
Chromium	0.00100	U	0.0500	0.05041		mg/L		101	75 - 125
Cobalt	0.00125	J	0.0500	0.05158		mg/L		101	75 - 125
Lead	0.000290	U	0.0500	0.04981		mg/L		100	75 - 125
Lithium	0.00293	J B	0.0500	0.05713		mg/L		108	75 - 125
Molybdenum	0.00450	U	0.0500	0.05352		mg/L		107	75 - 125
Selenium	0.000820	U ^	0.0500	0.05128	^	mg/L		103	75 - 125
Thallium	0.000120	U	0.0100	0.009825		mg/L		98	75 - 125

Lab Sample ID: 400-194806-F-27-B MS ^5
Matrix: Water
Analysis Batch: 509632

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 508920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.000170	U ^	0.0500	0.05431	^	mg/L		109	75 - 125
Boron	0.865	^	0.100	0.9962	^ 4	mg/L		131	75 - 125

Lab Sample ID: 400-194806-F-27-C MSD ^5
Matrix: Water
Analysis Batch: 509092

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 508920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	0.00150	U	0.0500	0.05111		mg/L		102	75 - 125	1	20
Arsenic	0.00176		0.0500	0.05236		mg/L		101	75 - 125	8	20
Barium	0.153		0.0500	0.2020		mg/L		99	75 - 125	0	20
Cadmium	0.000280	U	0.0500	0.05078		mg/L		102	75 - 125	6	20
Calcium	45.6		5.00	52.34	4	mg/L		135	75 - 125	5	20
Chromium	0.00100	U	0.0500	0.05277		mg/L		106	75 - 125	5	20
Cobalt	0.00125	J	0.0500	0.05226		mg/L		102	75 - 125	1	20
Lead	0.000290	U	0.0500	0.05173		mg/L		103	75 - 125	4	20
Lithium	0.00293	J B	0.0500	0.05716		mg/L		108	75 - 125	0	20
Molybdenum	0.00450	U	0.0500	0.05577		mg/L		112	75 - 125	4	20
Selenium	0.000820	U ^	0.0500	0.05318	^	mg/L		106	75 - 125	4	20
Thallium	0.000120	U	0.0100	0.01025		mg/L		102	75 - 125	4	20

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: 400-194806-F-27-C MSD ^5

Matrix: Water

Analysis Batch: 509632

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 508920

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Beryllium	0.000170	U ^	0.0500	0.05633	^	mg/L		113	75 - 125	4	20
Boron	0.865	^	0.100	1.015	^ 4	mg/L		150	75 - 125	2	20

Lab Sample ID: MB 400-509021/1-A ^5

Matrix: Water

Analysis Batch: 509241

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 509021

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.00150	U	0.00250	0.00150	mg/L		11/02/20 14:44	11/03/20 19:47	5
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		11/02/20 14:44	11/03/20 19:47	5
Barium	0.000700	U	0.00250	0.000700	mg/L		11/02/20 14:44	11/03/20 19:47	5
Barium, Dissolved	0.000700	U	0.00250	0.000700	mg/L		11/02/20 14:44	11/03/20 19:47	5
Beryllium	0.000170	U ^	0.00250	0.000170	mg/L		11/02/20 14:44	11/03/20 19:47	5
Beryllium, Dissolved	0.000170	U ^	0.00250	0.000170	mg/L		11/02/20 14:44	11/03/20 19:47	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		11/02/20 14:44	11/03/20 19:47	5
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		11/02/20 14:44	11/03/20 19:47	5
Calcium	0.125	U	0.250	0.125	mg/L		11/02/20 14:44	11/03/20 19:47	5
Calcium, Dissolved	0.125	U	0.250	0.125	mg/L		11/02/20 14:44	11/03/20 19:47	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		11/02/20 14:44	11/03/20 19:47	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		11/02/20 14:44	11/03/20 19:47	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		11/02/20 14:44	11/03/20 19:47	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		11/02/20 14:44	11/03/20 19:47	5
Lead	0.000290	U	0.00125	0.000290	mg/L		11/02/20 14:44	11/03/20 19:47	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		11/02/20 14:44	11/03/20 19:47	5
Lithium	0.00190	U ^	0.00500	0.00190	mg/L		11/02/20 14:44	11/03/20 19:47	5
Lithium, Dissolved	0.00190	U ^	0.00500	0.00190	mg/L		11/02/20 14:44	11/03/20 19:47	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		11/02/20 14:44	11/03/20 19:47	5
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		11/02/20 14:44	11/03/20 19:47	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		11/02/20 14:44	11/03/20 19:47	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		11/02/20 14:44	11/03/20 19:47	5

Lab Sample ID: MB 400-509021/1-A ^5

Matrix: Water

Analysis Batch: 510079

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 509021

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.0180	U ^	0.0500	0.0180	mg/L		11/02/20 14:44	11/10/20 03:58	5
Boron, Dissolved	0.0180	U ^	0.0500	0.0180	mg/L		11/02/20 14:44	11/10/20 03:58	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		11/02/20 14:44	11/10/20 03:58	5
Selenium, Dissolved	0.000820	U	0.00125	0.000820	mg/L		11/02/20 14:44	11/10/20 03:58	5

Lab Sample ID: MB 400-509021/1-A ^5

Matrix: Water

Analysis Batch: 510209

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 509021

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.000390	U ^	0.00125	0.000390	mg/L		11/02/20 14:44	11/10/20 21:26	5
Arsenic, Dissolved	0.000390	U ^	0.00125	0.000390	mg/L		11/02/20 14:44	11/10/20 21:26	5

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: LCS 400-509021/2-A ^5
Matrix: Water
Analysis Batch: 509241

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 509021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Antimony	0.0500	0.04775		mg/L		96	80 - 120	
Antimony, Dissolved	0.0500	0.04775		mg/L		96	80 - 120	
Arsenic	0.0500	0.04736		mg/L		95	80 - 120	
Arsenic, Dissolved	0.0500	0.04736		mg/L		95	80 - 120	
Barium	0.0500	0.05351		mg/L		107	80 - 120	
Barium, Dissolved	0.0500	0.05351		mg/L		107	80 - 120	
Beryllium	0.0500	0.05367	^	mg/L		107	80 - 120	
Beryllium, Dissolved	0.0500	0.05367	^	mg/L		107	80 - 120	
Cadmium	0.0500	0.05163		mg/L		103	80 - 120	
Cadmium, Dissolved	0.0500	0.05163		mg/L		103	80 - 120	
Calcium	5.00	4.942		mg/L		99	80 - 120	
Calcium, Dissolved	5.00	4.942		mg/L		99	80 - 120	
Chromium	0.0500	0.04918		mg/L		98	80 - 120	
Chromium, Dissolved	0.0500	0.04918		mg/L		98	80 - 120	
Cobalt	0.0500	0.05110		mg/L		102	80 - 120	
Cobalt, Dissolved	0.0500	0.05110		mg/L		102	80 - 120	
Lead	0.0500	0.04968		mg/L		99	80 - 120	
Lead, Dissolved	0.0500	0.04968		mg/L		99	80 - 120	
Molybdenum	0.0500	0.04880		mg/L		98	80 - 120	
Molybdenum, Dissolved	0.0500	0.04880		mg/L		98	80 - 120	
Thallium	0.0100	0.009450		mg/L		95	80 - 120	
Thallium, Dissolved	0.0100	0.009450		mg/L		95	80 - 120	

Lab Sample ID: LCS 400-509021/2-A ^5
Matrix: Water
Analysis Batch: 510079

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 509021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Lithium	0.0500	0.04940		mg/L		99	80 - 120	
Lithium, Dissolved	0.0500	0.04940		mg/L		99	80 - 120	
Selenium	0.0500	0.05284		mg/L		106	80 - 120	
Selenium, Dissolved	0.0500	0.05284		mg/L		106	80 - 120	

Lab Sample ID: LCS 400-509021/2-A ^5
Matrix: Water
Analysis Batch: 510209

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 509021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Boron	0.100	0.1009		mg/L		101	80 - 120	
Boron, Dissolved	0.100	0.1009		mg/L		101	80 - 120	

Lab Sample ID: 400-195090-D-1-B MS ^200
Matrix: Water
Analysis Batch: 510079

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 509021

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Ca	345		5.00	365.7	4	mg/L		416	75 - 125	
Calcium	345		5.00	365.7	4	mg/L		416	75 - 125	
Calcium, Dissolved	345		5.00	365.7	4	mg/L		416	75 - 125	

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: 400-195090-D-1-B MS ^200

Matrix: Water

Analysis Batch: 510079

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 509021

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Lithium	0.0760	U	0.0500	0.0760	U	mg/L		NC	75 - 125
Lithium, Dissolved	0.0760	U	0.0500	0.0760	U	mg/L		NC	75 - 125
Selenium	0.0328	U F2	0.0500	0.04120	J	mg/L		82	75 - 125
Selenium, Dissolved	0.0328	U F2	0.0500	0.04120	J	mg/L		82	75 - 125

Lab Sample ID: 400-195090-D-1-B MS ^200

Matrix: Water

Analysis Batch: 510209

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 509021

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Boron	13.8		0.100	13.86	4	mg/L		72	75 - 125
Boron, Dissolved	13.8		0.100	13.86	4	mg/L		72	75 - 125

Lab Sample ID: 400-195090-D-1-B MS ^5

Matrix: Water

Analysis Batch: 509241

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 509021

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Antimony	0.00150	U	0.0500	0.05399		mg/L		108	75 - 125
Antimony, Dissolved	0.00150	U	0.0500	0.05399		mg/L		108	75 - 125
Arsenic	0.00459		0.0500	0.05682		mg/L		104	75 - 125
Arsenic, Dissolved	0.00459		0.0500	0.05682		mg/L		104	75 - 125
Barium	0.106		0.0500	0.1608		mg/L		110	75 - 125
Barium, Dissolved	0.106		0.0500	0.1608		mg/L		110	75 - 125
Beryllium	0.000170	U ^	0.0500	0.05702	^	mg/L		114	75 - 125
Beryllium, Dissolved	0.000170	U ^	0.0500	0.05702	^	mg/L		114	75 - 125
Cadmium	0.000280	U	0.0500	0.04933		mg/L		99	75 - 125
Cadmium, Dissolved	0.000280	U	0.0500	0.04933		mg/L		99	75 - 125
Chromium	0.0255	F2 F1	0.0500	0.07572		mg/L		100	75 - 125
Chromium, Dissolved	0.0255	F2 F1	0.0500	0.07572		mg/L		100	75 - 125
Cobalt	0.00106	J	0.0500	0.05187		mg/L		102	75 - 125
Cobalt, Dissolved	0.00106	J	0.0500	0.05187		mg/L		102	75 - 125
Lead	0.000290	U	0.0500	0.05154		mg/L		103	75 - 125
Lead, Dissolved	0.000290	U	0.0500	0.05154		mg/L		103	75 - 125
Molybdenum	0.00450	U	0.0500	0.05357		mg/L		107	75 - 125
Molybdenum, Dissolved	0.00450	U	0.0500	0.05357		mg/L		107	75 - 125
Thallium	0.000120	U	0.0100	0.009715		mg/L		97	75 - 125
Thallium, Dissolved	0.000120	U	0.0100	0.009715		mg/L		97	75 - 125

Lab Sample ID: 400-195090-D-1-C MSD ^200

Matrix: Water

Analysis Batch: 510079

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 509021

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	
	Result	Qualifier		Result	Qualifier						Limits
Ca	345		5.00	356.0	4	mg/L		222	75 - 125	3	20
Calcium	345		5.00	356.0	4	mg/L		222	75 - 125	3	20
Calcium, Dissolved	345		5.00	356.0	4	mg/L		222	75 - 125	3	20
Lithium	0.0760	U	0.0500	0.0760	U	mg/L		NC	75 - 125	NC	20
Lithium, Dissolved	0.0760	U	0.0500	0.0760	U	mg/L		NC	75 - 125	NC	20

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: 400-195090-D-1-C MSD ^200
Matrix: Water
Analysis Batch: 510079

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 509021

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		
Selenium	0.0328	U F2	0.0500	0.05880	F2	mg/L		118	75 - 125	35	20
Selenium, Dissolved	0.0328	U F2	0.0500	0.05880	F2	mg/L		118	75 - 125	35	20

Lab Sample ID: 400-195090-D-1-C MSD ^200
Matrix: Water
Analysis Batch: 510209

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 509021

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		
Boron	13.8		0.100	14.39	4	mg/L		600	75 - 125	4	20
Boron, Dissolved	13.8		0.100	14.39	4	mg/L		600	75 - 125	4	20

Lab Sample ID: 400-195090-D-1-C MSD ^5
Matrix: Water
Analysis Batch: 509241

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 509021

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		
Antimony	0.00150	U	0.0500	0.04808		mg/L		96	75 - 125	12	20
Antimony, Dissolved	0.00150	U	0.0500	0.04808		mg/L		96	75 - 125	12	20
Arsenic	0.00459		0.0500	0.05358		mg/L		98	75 - 125	6	20
Arsenic, Dissolved	0.00459		0.0500	0.05358		mg/L		98	75 - 125	6	20
Barium	0.106		0.0500	0.1493		mg/L		87	75 - 125	7	20
Barium, Dissolved	0.106		0.0500	0.1493		mg/L		87	75 - 125	7	20
Beryllium	0.000170	U ^	0.0500	0.05725	^	mg/L		115	75 - 125	0	20
Beryllium, Dissolved	0.000170	U ^	0.0500	0.05725	^	mg/L		115	75 - 125	0	20
Cadmium	0.000280	U	0.0500	0.04709		mg/L		94	75 - 125	5	20
Cadmium, Dissolved	0.000280	U	0.0500	0.04709		mg/L		94	75 - 125	5	20
Chromium	0.0255	F2 F1	0.0500	0.09310	F1 F2	mg/L		135	75 - 125	21	20
Chromium, Dissolved	0.0255	F2 F1	0.0500	0.09310	F1 F2	mg/L		135	75 - 125	21	20
Cobalt	0.00106	J	0.0500	0.05033		mg/L		99	75 - 125	3	20
Cobalt, Dissolved	0.00106	J	0.0500	0.05033		mg/L		99	75 - 125	3	20
Lead	0.000290	U	0.0500	0.04922		mg/L		98	75 - 125	5	20
Lead, Dissolved	0.000290	U	0.0500	0.04922		mg/L		98	75 - 125	5	20
Molybdenum	0.00450	U	0.0500	0.04888		mg/L		98	75 - 125	9	20
Molybdenum, Dissolved	0.00450	U	0.0500	0.04888		mg/L		98	75 - 125	9	20
Thallium	0.000120	U	0.0100	0.009250		mg/L		93	75 - 125	5	20
Thallium, Dissolved	0.000120	U	0.0100	0.009250		mg/L		93	75 - 125	5	20

Lab Sample ID: MB 400-510664/1-A ^5
Matrix: Water
Analysis Batch: 511070

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 510664

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.00150	U	0.00250	0.00150	mg/L		11/13/20 14:52	11/16/20 15:16	5
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		11/13/20 14:52	11/16/20 15:16	5
Arsenic	0.000390	U	0.00125	0.000390	mg/L		11/13/20 14:52	11/16/20 15:16	5
Arsenic, Dissolved	0.000390	U	0.00125	0.000390	mg/L		11/13/20 14:52	11/16/20 15:16	5
Barium	0.000700	U	0.00250	0.000700	mg/L		11/13/20 14:52	11/16/20 15:16	5
Barium, Dissolved	0.000700	U	0.00250	0.000700	mg/L		11/13/20 14:52	11/16/20 15:16	5
Beryllium	0.000170	U	0.00250	0.000170	mg/L		11/13/20 14:52	11/16/20 15:16	5

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: MB 400-510664/1-A ^5
Matrix: Water
Analysis Batch: 511070

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 510664

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium, Dissolved	0.000170	U	0.00250	0.000170	mg/L		11/13/20 14:52	11/16/20 15:16	5
Boron	0.0180	U	0.0500	0.0180	mg/L		11/13/20 14:52	11/16/20 15:16	5
Boron, Dissolved	0.0180	U	0.0500	0.0180	mg/L		11/13/20 14:52	11/16/20 15:16	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		11/13/20 14:52	11/16/20 15:16	5
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		11/13/20 14:52	11/16/20 15:16	5
Ca	0.125	U	0.250	0.125	mg/L		11/13/20 14:52	11/16/20 15:16	5
Calcium	0.125	U	0.250	0.125	mg/L		11/13/20 14:52	11/16/20 15:16	5
Calcium, Dissolved	0.125	U	0.250	0.125	mg/L		11/13/20 14:52	11/16/20 15:16	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		11/13/20 14:52	11/16/20 15:16	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		11/13/20 14:52	11/16/20 15:16	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		11/13/20 14:52	11/16/20 15:16	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		11/13/20 14:52	11/16/20 15:16	5
Lead	0.000290	U	0.00125	0.000290	mg/L		11/13/20 14:52	11/16/20 15:16	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		11/13/20 14:52	11/16/20 15:16	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		11/13/20 14:52	11/16/20 15:16	5
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		11/13/20 14:52	11/16/20 15:16	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		11/13/20 14:52	11/16/20 15:16	5
Selenium, Dissolved	0.000820	U	0.00125	0.000820	mg/L		11/13/20 14:52	11/16/20 15:16	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		11/13/20 14:52	11/16/20 15:16	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		11/13/20 14:52	11/16/20 15:16	5

Lab Sample ID: MB 400-510664/1-A ^5
Matrix: Water
Analysis Batch: 512204

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 510664

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lithium	0.00190	U	0.00500	0.00190	mg/L		11/13/20 14:52	11/25/20 15:33	5
Lithium, Dissolved	0.00190	U	0.00500	0.00190	mg/L		11/13/20 14:52	11/25/20 15:33	5

Lab Sample ID: LCS 400-510664/2-A ^5
Matrix: Water
Analysis Batch: 511070

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 510664

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	0.0500	0.05087		mg/L		102	80 - 120
Antimony, Dissolved	0.0500	0.05087		mg/L		102	80 - 120
Arsenic	0.0500	0.04969		mg/L		99	80 - 120
Arsenic, Dissolved	0.0500	0.04969		mg/L		99	80 - 120
Barium	0.0500	0.05800		mg/L		116	80 - 120
Barium, Dissolved	0.0500	0.05800		mg/L		116	80 - 120
Beryllium	0.0500	0.05461		mg/L		109	80 - 120
Beryllium, Dissolved	0.0500	0.05461		mg/L		109	80 - 120
Boron	0.100	0.1017		mg/L		102	80 - 120
Boron, Dissolved	0.100	0.1017		mg/L		102	80 - 120
Cadmium	0.0500	0.05560		mg/L		111	80 - 120
Cadmium, Dissolved	0.0500	0.05560		mg/L		111	80 - 120
Ca	5.00	5.180		mg/L		104	80 - 120
Calcium	5.00	5.180		mg/L		104	80 - 120
Calcium, Dissolved	5.00	5.180		mg/L		104	80 - 120

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: LCS 400-510664/2-A ^5

Matrix: Water

Analysis Batch: 511070

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 510664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.0500	0.05184		mg/L		104	80 - 120
Chromium, Dissolved	0.0500	0.05184		mg/L		104	80 - 120
Cobalt	0.0500	0.05249		mg/L		105	80 - 120
Cobalt, Dissolved	0.0500	0.05249		mg/L		105	80 - 120
Lead	0.0500	0.05214		mg/L		104	80 - 120
Lead, Dissolved	0.0500	0.05214		mg/L		104	80 - 120
Molybdenum	0.0500	0.05377		mg/L		108	80 - 120
Molybdenum, Dissolved	0.0500	0.05377		mg/L		108	80 - 120
Selenium	0.0500	0.05419		mg/L		108	80 - 120
Selenium, Dissolved	0.0500	0.05419		mg/L		108	80 - 120
Thallium	0.0100	0.009210		mg/L		92	80 - 120
Thallium, Dissolved	0.0100	0.009210		mg/L		92	80 - 120

Lab Sample ID: LCS 400-510664/2-A ^5

Matrix: Water

Analysis Batch: 512204

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 510664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.0500	0.05084		mg/L		102	80 - 120
Lithium, Dissolved	0.0500	0.05084		mg/L		102	80 - 120

Lab Sample ID: 400-194965-2 MS

Matrix: Water

Analysis Batch: 511070

Client Sample ID: SW-1-1FT-FF

Prep Type: Dissolved

Prep Batch: 510664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.00750	U	0.0500	0.05275		mg/L		106	75 - 125
Antimony, Dissolved	0.00750	U	0.0500	0.05275		mg/L		106	75 - 125
Arsenic	0.00683		0.0500	0.05565		mg/L		98	75 - 125
Arsenic, Dissolved	0.00683		0.0500	0.05565		mg/L		98	75 - 125
Beryllium	0.000850	U	0.0500	0.04980		mg/L		100	75 - 125
Beryllium, Dissolved	0.000850	U	0.0500	0.04980		mg/L		100	75 - 125
Cadmium	0.00140	U	0.0500	0.05218		mg/L		104	75 - 125
Cadmium, Dissolved	0.00140	U	0.0500	0.05218		mg/L		104	75 - 125
Ca	113		5.00	120.2	4	mg/L		146	75 - 125
Calcium	113		5.00	120.2	4	mg/L		146	75 - 125
Calcium, Dissolved	113		5.00	120.2	4	mg/L		146	75 - 125
Chromium	0.00500	U	0.0500	0.05243		mg/L		105	75 - 125
Chromium, Dissolved	0.00500	U	0.0500	0.05243		mg/L		105	75 - 125
Cobalt	0.00280	U	0.0500	0.05448		mg/L		109	75 - 125
Cobalt, Dissolved	0.00280	U	0.0500	0.05448		mg/L		109	75 - 125
Lead	0.00145	U	0.0500	0.05088		mg/L		102	75 - 125
Lead, Dissolved	0.00145	U	0.0500	0.05088		mg/L		102	75 - 125
Molybdenum	0.0225	U	0.0500	0.05658	J	mg/L		113	75 - 125
Molybdenum, Dissolved	0.0225	U	0.0500	0.05658	J	mg/L		113	75 - 125
Selenium	0.00410	U	0.0500	0.04940		mg/L		99	75 - 125
Selenium, Dissolved	0.00410	U	0.0500	0.04940		mg/L		99	75 - 125

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: 400-194965-2 MS

Matrix: Water

Analysis Batch: 512204

Client Sample ID: SW-1-1FT-FF

Prep Type: Dissolved

Prep Batch: 510664

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Barium	0.0655		0.0500	0.1203		mg/L		110	75 - 125	
Barium, Dissolved	0.0655		0.0500	0.1203		mg/L		110	75 - 125	
Boron	1.18		0.100	1.285	4	mg/L		109	75 - 125	
Boron, Dissolved	1.18		0.100	1.285	4	mg/L		109	75 - 125	
Lithium	0.0218	J F1	0.0500	0.07958		mg/L		116	75 - 125	
Lithium, Dissolved	0.0218	J F1	0.0500	0.07958		mg/L		116	75 - 125	
Thallium	0.000600	U	0.0100	0.008725		mg/L		87	75 - 125	
Thallium, Dissolved	0.000600	U	0.0100	0.008725		mg/L		87	75 - 125	

Lab Sample ID: 400-194965-2 MSD

Matrix: Water

Analysis Batch: 511070

Client Sample ID: SW-1-1FT-FF

Prep Type: Dissolved

Prep Batch: 510664

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier						RPD	Limit
Antimony	0.00750	U	0.0500	0.05223		mg/L		104	75 - 125	1	20	
Antimony, Dissolved	0.00750	U	0.0500	0.05223		mg/L		104	75 - 125	1	20	
Arsenic	0.00683		0.0500	0.06210		mg/L		111	75 - 125	11	20	
Arsenic, Dissolved	0.00683		0.0500	0.06210		mg/L		111	75 - 125	11	20	
Beryllium	0.000850	U	0.0500	0.04673		mg/L		93	75 - 125	6	20	
Beryllium, Dissolved	0.000850	U	0.0500	0.04673		mg/L		93	75 - 125	6	20	
Cadmium	0.00140	U	0.0500	0.04645		mg/L		93	75 - 125	12	20	
Cadmium, Dissolved	0.00140	U	0.0500	0.04645		mg/L		93	75 - 125	12	20	
Ca	113		5.00	116.8	4	mg/L		79	75 - 125	3	20	
Calcium	113		5.00	116.8	4	mg/L		79	75 - 125	3	20	
Calcium, Dissolved	113		5.00	116.8	4	mg/L		79	75 - 125	3	20	
Chromium	0.00500	U	0.0500	0.05055		mg/L		101	75 - 125	4	20	
Chromium, Dissolved	0.00500	U	0.0500	0.05055		mg/L		101	75 - 125	4	20	
Cobalt	0.00280	U	0.0500	0.05233		mg/L		105	75 - 125	4	20	
Cobalt, Dissolved	0.00280	U	0.0500	0.05233		mg/L		105	75 - 125	4	20	
Lead	0.00145	U	0.0500	0.05178		mg/L		104	75 - 125	2	20	
Lead, Dissolved	0.00145	U	0.0500	0.05178		mg/L		104	75 - 125	2	20	
Molybdenum	0.0225	U	0.0500	0.05565	J	mg/L		111	75 - 125	2	20	
Molybdenum, Dissolved	0.0225	U	0.0500	0.05565	J	mg/L		111	75 - 125	2	20	
Selenium	0.00410	U	0.0500	0.04980		mg/L		100	75 - 125	1	20	
Selenium, Dissolved	0.00410	U	0.0500	0.04980		mg/L		100	75 - 125	1	20	

Lab Sample ID: 400-194965-2 MSD

Matrix: Water

Analysis Batch: 512204

Client Sample ID: SW-1-1FT-FF

Prep Type: Dissolved

Prep Batch: 510664

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier						RPD	Limit
Barium	0.0655		0.0500	0.1189		mg/L		107	75 - 125	1	20	
Barium, Dissolved	0.0655		0.0500	0.1189		mg/L		107	75 - 125	1	20	
Boron	1.18		0.100	1.250	4	mg/L		75	75 - 125	3	20	
Boron, Dissolved	1.18		0.100	1.250	4	mg/L		75	75 - 125	3	20	
Lithium	0.0218	J F1	0.0500	0.09305	F1	mg/L		142	75 - 125	16	20	
Lithium, Dissolved	0.0218	J F1	0.0500	0.09305	F1	mg/L		142	75 - 125	16	20	
Thallium	0.000600	U	0.0100	0.008675		mg/L		87	75 - 125	1	20	
Thallium, Dissolved	0.000600	U	0.0100	0.008675		mg/L		87	75 - 125	1	20	

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-508475/14-A
Matrix: Water
Analysis Batch: 508647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 508475

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/28/20 09:47	10/28/20 13:43	1
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/28/20 09:47	10/28/20 13:43	1

Lab Sample ID: LCS 400-508475/15-A
Matrix: Water
Analysis Batch: 508647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 508475

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury, Dissolved	0.00101	0.0009528		mg/L		95	80 - 120

Lab Sample ID: 400-195015-J-1-B MS
Matrix: Water
Analysis Batch: 508647

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 508475

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury, Dissolved	0.0000700	U	0.00201	0.002013		mg/L		100	80 - 120

Lab Sample ID: 400-195015-J-1-C MSD
Matrix: Water
Analysis Batch: 508647

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 508475

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury, Dissolved	0.0000700	U	0.00201	0.001964		mg/L		97	80 - 120	3	20

Lab Sample ID: MB 400-508539/14-A
Matrix: Water
Analysis Batch: 508647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 508539

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 11:37	1
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 11:37	1

Lab Sample ID: LCS 400-508539/15-A
Matrix: Water
Analysis Batch: 508647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 508539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury, Dissolved	0.00101	0.0008404		mg/L		83	80 - 120

Lab Sample ID: 400-195022-AC-1-B MS
Matrix: Water
Analysis Batch: 508647

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 508539

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury, Dissolved	0.0000700	U	0.00201	0.001888		mg/L		94	80 - 120

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 400-195022-AC-1-C MSD
Matrix: Water
Analysis Batch: 508647

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 508539

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	0.0000700	U	0.00201	0.001818		mg/L		90	80 - 120	4	20
Mercury, Dissolved	0.0000700	U	0.00201	0.001818		mg/L		90	80 - 120	4	20

Lab Sample ID: MB 400-508542/14-A
Matrix: Water
Analysis Batch: 508647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 508542

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:32	1
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/29/20 09:00	10/29/20 12:32	1

Lab Sample ID: LCS 400-508542/15-A
Matrix: Water
Analysis Batch: 508647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 508542

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Mercury	0.00101	0.0009329		mg/L		93	80 - 120
Mercury, Dissolved	0.00101	0.0009329		mg/L		93	80 - 120

Lab Sample ID: 400-194965-27 MS
Matrix: Water
Analysis Batch: 508647

Client Sample ID: SW-10-2FT
Prep Type: Total/NA
Prep Batch: 508542

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	0.0000700	U	0.00201	0.001812		mg/L		90	80 - 120		
Mercury, Dissolved	0.0000700	U	0.00201	0.001812		mg/L		90	80 - 120		

Lab Sample ID: 400-194965-27 MSD
Matrix: Water
Analysis Batch: 508647

Client Sample ID: SW-10-2FT
Prep Type: Total/NA
Prep Batch: 508542

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	0.0000700	U	0.00201	0.001856		mg/L		92	80 - 120	2	20
Mercury, Dissolved	0.0000700	U	0.00201	0.001856		mg/L		92	80 - 120	2	20

Lab Sample ID: MB 400-508722/14-A
Matrix: Water
Analysis Batch: 508948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 508722

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		10/30/20 08:49	11/01/20 14:38	1
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		10/30/20 08:49	11/01/20 14:38	1

Lab Sample ID: LCS 400-508722/15-A
Matrix: Water
Analysis Batch: 508948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 508722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Mercury	0.00101	0.0009185		mg/L		91	80 - 120
Mercury, Dissolved	0.00101	0.0009185		mg/L		91	80 - 120

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 400-194965-47 MS
Matrix: Water
Analysis Batch: 508948

Client Sample ID: DUP-02
Prep Type: Total/NA
Prep Batch: 508722

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Mercury	0.0000700	U F1	0.00201	0.001280	F1	mg/L		64	80 - 120	
Mercury, Dissolved	0.0000700	U F1	0.00201	0.001280	F1	mg/L		64	80 - 120	

Lab Sample ID: 400-194965-47 MSD
Matrix: Water
Analysis Batch: 508948

Client Sample ID: DUP-02
Prep Type: Total/NA
Prep Batch: 508722

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Mercury	0.0000700	U F1	0.00201	0.001209	F1	mg/L		60	80 - 120	6	20	
Mercury, Dissolved	0.0000700	U F1	0.00201	0.001209	F1	mg/L		60	80 - 120	6	20	

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Lab Sample ID: 400-194965-2 MS
Matrix: Water
Analysis Batch: 511070

Client Sample ID: SW-1-1FT-FF
Prep Type: Dissolved
Prep Batch: 510664

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Ca	113		5.00	120.2	4	mg/L		146		
Calcium	113		5.00	120.2	4	mg/L		146		
Calcium, Dissolved	113		5.00	120.2	4	mg/L		146		
Magnesium	324		5.00	335.9	4	mg/L		230		
Mg	324		5.00	335.9	4	mg/L		230		
Hardness as calcium carbonate	1620000		33.0	1683	4	mg/L		-4896	919	

Lab Sample ID: 400-194965-2 MSD
Matrix: Water
Analysis Batch: 511070

Client Sample ID: SW-1-1FT-FF
Prep Type: Dissolved
Prep Batch: 510664

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Ca	113		5.00	116.8	4	mg/L		79			3	
Calcium	113		5.00	116.8	4	mg/L		79			3	
Calcium, Dissolved	113		5.00	116.8	4	mg/L		79			3	
Magnesium	324		5.00	333.3	4	mg/L		179			1	
Mg	324		5.00	333.3	4	mg/L		179			1	
Hardness as calcium carbonate	1620000		33.0	1664	4	mg/L		-4896	200		976	

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 400-509458/4
Matrix: Water
Analysis Batch: 509458

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity, Dissolved	0.500	U	1.00	0.500	mg/L			11/03/20 15:11	1
Alkalinity, Total	0.500	U	1.00	0.500	mg/L			11/03/20 15:11	1
Bicarbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/03/20 15:11	1
Bicarbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/03/20 15:11	1

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 400-509458/4
Matrix: Water
Analysis Batch: 509458

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/03/20 15:11	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/03/20 15:11	1

Lab Sample ID: LCS 400-509458/5
Matrix: Water
Analysis Batch: 509458

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	103.7		mg/L		104	80 - 120

Lab Sample ID: MB 400-509968/4
Matrix: Water
Analysis Batch: 509968

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 11:07	1
Alkalinity, Total	0.500	U	1.00	0.500	mg/L			11/09/20 11:07	1
Bicarbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 11:07	1
Bicarbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 11:07	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 11:07	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 11:07	1

Lab Sample ID: LCS 400-509968/5
Matrix: Water
Analysis Batch: 509968

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	94.95		mg/L		95	80 - 120

Lab Sample ID: MB 400-510023/4
Matrix: Water
Analysis Batch: 510023

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 15:09	1
Alkalinity, Total	0.500	U	1.00	0.500	mg/L			11/09/20 15:09	1
Bicarbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 15:09	1
Bicarbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 15:09	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/09/20 15:09	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/09/20 15:09	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 400-510023/5

Matrix: Water

Analysis Batch: 510023

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Alkalinity, Dissolved	100	94.86		mg/L		95	80 - 120	
Alkalinity, Total	100	94.86		mg/L		95	80 - 120	

Lab Sample ID: 400-194965-29 DU

Matrix: Water

Analysis Batch: 510023

Client Sample ID: SW-11-1FT

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit	
Alkalinity, Total	43.2		44.63		mg/L		3	20	
Bicarbonate Alkalinity as CaCO3	43.2		44.63		mg/L		3	20	
Carbonate Alkalinity as CaCO3	0.500	U	0.500	U	mg/L		NC	20	

Lab Sample ID: MB 400-510913/4

Matrix: Water

Analysis Batch: 510913

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	0.500	U	1.00	0.500	mg/L			11/16/20 09:58	1
Bicarbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/16/20 09:58	1
Bicarbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/16/20 09:58	1
Carbonate Alkalinity as CaCO3	0.500	U	1.00	0.500	mg/L			11/16/20 09:58	1
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	1.00	0.500	mg/L			11/16/20 09:58	1

Lab Sample ID: LCS 400-510913/5

Matrix: Water

Analysis Batch: 510913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Alkalinity, Dissolved	100	94.84		mg/L		95	80 - 120	
Alkalinity, Total	100	94.84		mg/L		95	80 - 120	

Lab Sample ID: 400-194965-39 DU

Matrix: Water

Analysis Batch: 510913

Client Sample ID: SW-16-1.5FT

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit	
Alkalinity, Dissolved	51.8	H	55.53		mg/L		7	20	
Alkalinity, Total	51.8	H	55.53		mg/L		7	20	
Bicarbonate Alkalinity as CaCO3	51.8	H	55.53		mg/L		7	20	
Bicarbonate Alkalinity as CaCO3, Dissolved	51.8	H	55.53		mg/L		7	20	
Carbonate Alkalinity as CaCO3	0.500	U H	0.500	U	mg/L		NC	20	
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U H	0.500	U	mg/L		NC	20	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 400-194965-49 DU
Matrix: Water
Analysis Batch: 510913

Client Sample ID: DUP-03
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Alkalinity, Dissolved	48.1	H	39.94		mg/L		19	20
Alkalinity, Total	48.1	H	39.94		mg/L		19	20
Bicarbonate Alkalinity as CaCO3	48.1	H	39.94		mg/L		19	20
Bicarbonate Alkalinity as CaCO3, Dissolved	48.1	H	39.94		mg/L		19	20
Carbonate Alkalinity as CaCO3	0.500	U H	0.500	U	mg/L		NC	20
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U H	0.500	U	mg/L		NC	20

Lab Sample ID: 400-194965-4 DU
Matrix: Water
Analysis Batch: 509968

Client Sample ID: SW-1-7FT-FF
Prep Type: Dissolved

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Alkalinity, Dissolved	48.6		58.86		mg/L		19	20
Alkalinity, Total	48.6		58.86		mg/L		19	20
Bicarbonate Alkalinity as CaCO3	48.6		58.86		mg/L		19	20
Bicarbonate Alkalinity as CaCO3, Dissolved	48.6		58.86		mg/L		19	20
Carbonate Alkalinity as CaCO3	0.500	U	0.500	U	mg/L		NC	20
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	0.500	U	mg/L		NC	20

Lab Sample ID: 400-194965-14 DU
Matrix: Water
Analysis Batch: 510023

Client Sample ID: SW-4-1.5FT-FF
Prep Type: Dissolved

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Alkalinity, Dissolved	53.6		56.24		mg/L		5	20
Bicarbonate Alkalinity as CaCO3, Dissolved	53.6		56.24		mg/L		5	20
Carbonate Alkalinity as CaCO3, Dissolved	0.500	U	0.500	U	mg/L		NC	20

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

Lab Sample ID: MB 400-508839/1
Matrix: Water
Analysis Batch: 508839

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	5.00	U	5.00	5.00	mg/L			10/30/20 16:54	1

Lab Sample ID: LCS 400-508839/2
Matrix: Water
Analysis Batch: 508839

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: 400-194965-31 DU
Matrix: Water
Analysis Batch: 508839

Client Sample ID: SW-12-1FT
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	5360		5320		mg/L		0.7	5

Lab Sample ID: MB 400-508841/1
Matrix: Water
Analysis Batch: 508841

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	5.00	U	5.00	5.00	mg/L			10/30/20 17:13	1

Lab Sample ID: LCS 400-508841/2
Matrix: Water
Analysis Batch: 508841

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 400-194965-15 DU
Matrix: Water
Analysis Batch: 508841

Client Sample ID: SW-5-1FT
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	4180		4120		mg/L		1	5

Lab Sample ID: MB 400-508908/1
Matrix: Water
Analysis Batch: 508908

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	5.00	U	5.00	5.00	mg/L			10/31/20 21:21	1

Lab Sample ID: LCS 400-508908/2
Matrix: Water
Analysis Batch: 508908

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 400-194987-D-1 DU
Matrix: Water
Analysis Batch: 508908

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	54.0		54.00		mg/L		0	5

Lab Sample ID: 400-194987-D-3 DU
Matrix: Water
Analysis Batch: 508908

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	88.0		88.00		mg/L		0	5

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: 400-194965-32 DU
Matrix: Water
Analysis Batch: 508839

Client Sample ID: SW-12-1FT-FF
Prep Type: Dissolved

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	
	Result	Qualifier	Result	Qualifier				Limit	Limit
Total Dissolved Solids	7260		5800	F3	mg/L		22	5	

Lab Sample ID: 400-194965-16 DU
Matrix: Water
Analysis Batch: 508841

Client Sample ID: SW-5-1FT-FF
Prep Type: Dissolved

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	
	Result	Qualifier	Result	Qualifier				Limit	Limit
Total Dissolved Solids	4140		4120		mg/L		0.5	5	

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-510136/6
Matrix: Water
Analysis Batch: 510136

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	1.40	U	2.00	1.40	mg/L			11/10/20 12:38	1
Chloride, Dissolved	1.40	U	2.00	1.40	mg/L			11/10/20 12:38	1

Lab Sample ID: LCS 400-510136/7
Matrix: Water
Analysis Batch: 510136

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	Limits
Chloride	30.0	30.29		mg/L		101	90 - 110	
Chloride, Dissolved	30.0	30.29		mg/L		101	90 - 110	

Lab Sample ID: MRL 400-510136/3
Matrix: Water
Analysis Batch: 510136

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

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	Limits
Chloride	2.00	2.017		mg/L		101	50 - 150	
Chloride, Dissolved	2.00	2.017		mg/L		101	50 - 150	

Lab Sample ID: 400-194965-5 MS
Matrix: Water
Analysis Batch: 510136

Client Sample ID: SW-2-1FT
Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	Limits
Chloride	4420		10.0	4358	4	mg/L		-627	73 - 120	
Chloride, Dissolved	4420		10.0	4358	4	mg/L		-627	73 - 120	

Lab Sample ID: 400-194965-5 MSD
Matrix: Water
Analysis Batch: 510136

Client Sample ID: SW-2-1FT
Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	Limits		
Chloride	4420		10.0	4311	4	mg/L		-1090	73 - 120	1	8	
Chloride, Dissolved	4420		10.0	4311	4	mg/L		-1090	73 - 120	1	8	

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

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

Lab Sample ID: MB 400-510197/6
Matrix: Water
Analysis Batch: 510197

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	1.40	U	2.00	1.40	mg/L			11/10/20 15:13	1
Chloride, Dissolved	1.40	U	2.00	1.40	mg/L			11/10/20 15:13	1

Lab Sample ID: LCS 400-510197/7
Matrix: Water
Analysis Batch: 510197

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Chloride	30.0	30.85		mg/L		103	90 - 110
Chloride, Dissolved	30.0	30.85		mg/L		103	90 - 110

Lab Sample ID: MRL 400-510197/3
Matrix: Water
Analysis Batch: 510197

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

Analyte	Spike Added	MRL MRL		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Chloride	2.00	2.097		mg/L		105	50 - 150
Chloride, Dissolved	2.00	2.097		mg/L		105	50 - 150

Lab Sample ID: 400-194965-15 MS
Matrix: Water
Analysis Batch: 510197

Client Sample ID: SW-5-1FT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Chloride	2410		10.0	2335	4	mg/L		-739	73 - 120
Chloride, Dissolved	2410		10.0	2335	4	mg/L		-739	73 - 120

Lab Sample ID: 400-194965-15 MSD
Matrix: Water
Analysis Batch: 510197

Client Sample ID: SW-5-1FT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Chloride	2410		10.0	2299	4	mg/L		-1100	73 - 120	2	8
Chloride, Dissolved	2410		10.0	2299	4	mg/L		-1100	73 - 120	2	8

Lab Sample ID: 400-194965-33 MS
Matrix: Water
Analysis Batch: 510197

Client Sample ID: SW-13-1FT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Chloride	3950		10.0	4076	4	mg/L		1290	73 - 120
Chloride, Dissolved	3950		10.0	4076	4	mg/L		1290	73 - 120

Lab Sample ID: 400-194965-33 MSD
Matrix: Water
Analysis Batch: 510197

Client Sample ID: SW-13-1FT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Chloride	3950		10.0	3891	4	mg/L		-552	73 - 120	5	8
Chloride, Dissolved	3950		10.0	3891	4	mg/L		-552	73 - 120	5	8

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-510297/5
Matrix: Water
Analysis Batch: 510297

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	1.40	U	2.00	1.40	mg/L			11/11/20 12:37	1
Chloride, Dissolved	1.40	U	2.00	1.40	mg/L			11/11/20 12:37	1

Lab Sample ID: LCS 400-510297/34
Matrix: Water
Analysis Batch: 510297

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Chloride	30.0	28.55		mg/L		95	90 - 110
Chloride, Dissolved	30.0	28.55		mg/L		95	90 - 110

Lab Sample ID: MRL 400-510297/3
Matrix: Water
Analysis Batch: 510297

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

Analyte	Spike Added	MRL MRL		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Chloride	2.00	2.527		mg/L		126	50 - 150
Chloride, Dissolved	2.00	2.527		mg/L		126	50 - 150

Lab Sample ID: 400-195018-F-3 MS
Matrix: Water
Analysis Batch: 510297

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Chloride	12.0		10.0	20.86		mg/L		89	73 - 120
Chloride, Dissolved	12.0		10.0	20.86		mg/L		89	73 - 120

Lab Sample ID: 400-195018-F-3 MSD
Matrix: Water
Analysis Batch: 510297

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	
				Result	Qualifier					RPD	Limit
Chloride	12.0		10.0	20.48		mg/L		85	73 - 120	2	8
Chloride, Dissolved	12.0		10.0	20.48		mg/L		85	73 - 120	2	8

Lab Sample ID: 400-195018-F-2 DU
Matrix: Water
Analysis Batch: 510297

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	RPD	
			Result	Qualifier				RPD	Limit
Chloride	4.07		4.187		mg/L		3	3	8
Chloride, Dissolved	4.07		4.187		mg/L		3	3	8

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-510672/5
Matrix: Water
Analysis Batch: 510672

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluoride	0.0320	U	0.100	0.0320	mg/L			11/13/20 13:35	1
Fluoride, Dissolved	0.0320	U	0.100	0.0320	mg/L			11/13/20 13:35	1

Lab Sample ID: LCS 400-510672/8
Matrix: Water
Analysis Batch: 510672

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Fluoride	4.00	4.070		mg/L		102	90 - 110
Fluoride, Dissolved	4.00	4.070		mg/L		102	90 - 110

Lab Sample ID: 400-194929-C-3 MS
Matrix: Water
Analysis Batch: 510672

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

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Fluoride	0.830	F1	1.00	1.510	F1	mg/L		68	75 - 125
Fluoride, Dissolved	0.830	F1	1.00	1.510	F1	mg/L		68	75 - 125

Lab Sample ID: 400-194929-C-3 MSD
Matrix: Water
Analysis Batch: 510672

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

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Fluoride	0.830	F1	1.00	1.510	F1	mg/L		68	75 - 125	0	4
Fluoride, Dissolved	0.830	F1	1.00	1.510	F1	mg/L		68	75 - 125	0	4

Lab Sample ID: MB 400-510707/14
Matrix: Water
Analysis Batch: 510707

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluoride	0.0320	U	0.100	0.0320	mg/L			11/13/20 15:35	1
Fluoride, Dissolved	0.0320	U	0.100	0.0320	mg/L			11/13/20 15:35	1

Lab Sample ID: LCS 400-510707/11
Matrix: Water
Analysis Batch: 510707

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Fluoride	4.00	3.820		mg/L		96	90 - 110
Fluoride, Dissolved	4.00	3.820		mg/L		96	90 - 110

Lab Sample ID: MB 400-510745/14
Matrix: Water
Analysis Batch: 510745

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluoride	0.0320	U	0.100	0.0320	mg/L			11/13/20 17:26	1
Fluoride, Dissolved	0.0320	U	0.100	0.0320	mg/L			11/13/20 17:26	1

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: LCS 400-510745/11
Matrix: Water
Analysis Batch: 510745

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	3.670		mg/L		92	90 - 110
Fluoride, Dissolved	4.00	3.670		mg/L		92	90 - 110

Lab Sample ID: MB 400-511410/2
Matrix: Water
Analysis Batch: 511410

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.0320	U	0.100	0.0320	mg/L			11/19/20 15:00	1
Fluoride, Dissolved	0.0320	U	0.100	0.0320	mg/L			11/19/20 15:00	1

Lab Sample ID: LCS 400-511410/36
Matrix: Water
Analysis Batch: 511410

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.326		mg/L		108	90 - 110
Fluoride, Dissolved	4.00	4.326		mg/L		108	90 - 110

Lab Sample ID: 240-139915-D-4 MS
Matrix: Water
Analysis Batch: 511410

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.00		1.00	2.145		mg/L		115	75 - 125
Fluoride, Dissolved	1.00		1.00	2.145		mg/L		115	75 - 125

Lab Sample ID: 240-139915-D-4 MSD
Matrix: Water
Analysis Batch: 511410

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	1.00		1.00	2.145		mg/L		115	75 - 125	0	4
Fluoride, Dissolved	1.00		1.00	2.145		mg/L		115	75 - 125	0	4

Lab Sample ID: 400-194965-8 MS
Matrix: Water
Analysis Batch: 510707

Client Sample ID: SW-2-7FT-FF
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.290		1.00	1.230		mg/L		94	75 - 125
Fluoride, Dissolved	0.290		1.00	1.230		mg/L		94	75 - 125

Lab Sample ID: 400-194965-8 MSD
Matrix: Water
Analysis Batch: 510707

Client Sample ID: SW-2-7FT-FF
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.290		1.00	1.230		mg/L		94	75 - 125	0	4
Fluoride, Dissolved	0.290		1.00	1.230		mg/L		94	75 - 125	0	4

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: 400-194965-18 MS

Matrix: Water

Analysis Batch: 510707

Client Sample ID: SW-5-13FT-FF

Prep Type: Dissolved

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Fluoride	0.310	F2	1.00	1.310		mg/L		100	75 - 125		
Fluoride, Dissolved	0.310	F2	1.00	1.310		mg/L		100	75 - 125		

Lab Sample ID: 400-194965-18 MSD

Matrix: Water

Analysis Batch: 510707

Client Sample ID: SW-5-13FT-FF

Prep Type: Dissolved

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Fluoride	0.310	F2	1.00	1.250	F2	mg/L		94	75 - 125	5	4	4
Fluoride, Dissolved	0.310	F2	1.00	1.250	F2	mg/L		94	75 - 125	5	4	4

Lab Sample ID: 400-194965-28 MS

Matrix: Water

Analysis Batch: 510745

Client Sample ID: SW-10-2FT-FF

Prep Type: Dissolved

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Fluoride	0.180		1.00	1.160		mg/L		98	75 - 125		
Fluoride, Dissolved	0.180		1.00	1.160		mg/L		98	75 - 125		

Lab Sample ID: 400-194965-28 MSD

Matrix: Water

Analysis Batch: 510745

Client Sample ID: SW-10-2FT-FF

Prep Type: Dissolved

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Fluoride	0.180		1.00	1.200		mg/L		102	75 - 125	3	4	4
Fluoride, Dissolved	0.180		1.00	1.200		mg/L		102	75 - 125	3	4	4

Lab Sample ID: 400-194965-38 MS

Matrix: Water

Analysis Batch: 510745

Client Sample ID: SW-15-1.5FT-FF

Prep Type: Dissolved

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Fluoride	0.240	F2	1.00	1.180		mg/L		94	75 - 125		
Fluoride, Dissolved	0.240	F2	1.00	1.180		mg/L		94	75 - 125		

Lab Sample ID: 400-194965-38 MSD

Matrix: Water

Analysis Batch: 510745

Client Sample ID: SW-15-1.5FT-FF

Prep Type: Dissolved

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Fluoride	0.240	F2	1.00	1.280	F2	mg/L		104	75 - 125	8	4	4
Fluoride, Dissolved	0.240	F2	1.00	1.280	F2	mg/L		104	75 - 125	8	4	4

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-510568/6
Matrix: Water
Analysis Batch: 510568

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfate	1.40	U	5.00	1.40	mg/L			11/12/20 19:18	1
Sulfate, Dissolved	1.40	U	5.00	1.40	mg/L			11/12/20 19:18	1

Lab Sample ID: LCS 400-510568/7
Matrix: Water
Analysis Batch: 510568

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Sulfate	15.0	14.48		mg/L		97	90 - 110
Sulfate, Dissolved	15.0	14.48		mg/L		97	90 - 110

Lab Sample ID: MRL 400-510568/3
Matrix: Water
Analysis Batch: 510568

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

Analyte	Spike Added	MRL MRL		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Sulfate	5.00	5.232		mg/L		105	50 - 150
Sulfate, Dissolved	5.00	5.232		mg/L		105	50 - 150

Lab Sample ID: 400-195090-A-1 MS
Matrix: Water
Analysis Batch: 510568

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

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Sulfate	892	F1	1000	874.2	F1	mg/L		-2	77 - 128
Sulfate, Dissolved	892	F1	1000	874.2	F1	mg/L		-2	77 - 128

Lab Sample ID: 400-195090-A-1 MSD
Matrix: Water
Analysis Batch: 510568

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

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
Sulfate	892	F1	1000	849.7	F1	mg/L		-4	77 - 128	3	5
Sulfate, Dissolved	892	F1	1000	849.7	F1	mg/L		-4	77 - 128	3	5

Lab Sample ID: 400-195101-A-2 DU
Matrix: Water
Analysis Batch: 510568

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Sample		DU DU	Unit	D	RPD	RPD Limit
	Result	Qualifier					
Sulfate	26.1		24.20	F5	mg/L	8	5
Sulfate, Dissolved	26.1		24.20	F5	mg/L	8	5

Lab Sample ID: MB 400-510572/6
Matrix: Water
Analysis Batch: 510572

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfate	1.40	U	5.00	1.40	mg/L			11/12/20 21:32	1
Sulfate, Dissolved	1.40	U	5.00	1.40	mg/L			11/12/20 21:32	1

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: LCS 400-510572/7

Matrix: Water

Analysis Batch: 510572

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfate	15.0	14.11		mg/L		94	90 - 110	
Sulfate, Dissolved	15.0	14.11		mg/L		94	90 - 110	

Lab Sample ID: MRL 400-510572/3

Matrix: Water

Analysis Batch: 510572

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfate	5.00	5.068		mg/L		101	50 - 150	
Sulfate, Dissolved	5.00	5.068		mg/L		101	50 - 150	

Lab Sample ID: 400-194965-15 MS

Matrix: Water

Analysis Batch: 510572

Client Sample ID: SW-5-1FT

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfate	218	J F1	1000	215.0	J F1	mg/L		-0.3	77 - 128	
Sulfate, Dissolved	218	J F1	1000	215.0	J F1	mg/L		-0.3	77 - 128	

Lab Sample ID: 400-194965-15 MSD

Matrix: Water

Analysis Batch: 510572

Client Sample ID: SW-5-1FT

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD Limit	
Sulfate	218	J F1	1000	219.8	J F1	mg/L		0.2	77 - 128	2	5	
Sulfate, Dissolved	218	J F1	1000	219.8	J F1	mg/L		0.2	77 - 128	2	5	

Lab Sample ID: 400-194965-25 MS

Matrix: Water

Analysis Batch: 510572

Client Sample ID: SW-9-4FT

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfate	470	J F1	1000	463.2	J F1	mg/L		-0.7	77 - 128	
Sulfate, Dissolved	470	J F1	1000	463.2	J F1	mg/L		-0.7	77 - 128	

Lab Sample ID: 400-194965-25 MSD

Matrix: Water

Analysis Batch: 510572

Client Sample ID: SW-9-4FT

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD Limit	
Sulfate	470	J F1	1000	470.8	J F1	mg/L		0.05	77 - 128	2	5	
Sulfate, Dissolved	470	J F1	1000	470.8	J F1	mg/L		0.05	77 - 128	2	5	

Lab Sample ID: MB 400-510574/6

Matrix: Water

Analysis Batch: 510574

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfate	1.40	U	5.00	1.40	mg/L			11/12/20 23:46	1
Sulfate, Dissolved	1.40	U	5.00	1.40	mg/L			11/12/20 23:46	1

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: LCS 400-510574/7
Matrix: Water
Analysis Batch: 510574

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfate	15.0	14.17		mg/L		94	90 - 110	
Sulfate, Dissolved	15.0	14.17		mg/L		94	90 - 110	

Lab Sample ID: MRL 400-510574/3
Matrix: Water
Analysis Batch: 510574

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfate	5.00	5.330		mg/L		107	50 - 150	
Sulfate, Dissolved	5.00	5.330		mg/L		107	50 - 150	

Lab Sample ID: 400-195105-B-1 MS
Matrix: Water
Analysis Batch: 510574

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfate	22.8	F1	10.0	24.88	F1	mg/L		21	77 - 128	

Lab Sample ID: 400-195105-B-1 MSD
Matrix: Water
Analysis Batch: 510574

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 Limit	
											RPD	Limit
Sulfate	22.8	F1	10.0	24.99	F1	mg/L		22	77 - 128		0	5

Lab Sample ID: 400-195106-C-1 MS
Matrix: Water
Analysis Batch: 510574

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Sulfate	1.43	J	10.0	13.58		mg/L		121	77 - 128	
Sulfate, Dissolved	1.43	J	10.0	13.58		mg/L		121	77 - 128	

Lab Sample ID: 400-195106-C-1 MSD
Matrix: Water
Analysis Batch: 510574

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 Limit	
											RPD	Limit
Sulfate	1.43	J	10.0	13.79		mg/L		124	77 - 128		2	5
Sulfate, Dissolved	1.43	J	10.0	13.79		mg/L		124	77 - 128		2	5

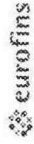
Chain of Custody Record

Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283(Tel) Email: laparker@southernco.com Project Name: Plant Watson Site:		Lab PM: Whitmire, Cheyenne R E-Mail: Cheyenne.Whitmire@Eurofinset.com Carrier Tracking No(s): COC No: 400-95134-34480.1 Page: 1 of 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 40001674 SSOW#:		Analysis Requested 4500 F-C-Fluoride, SM4500 Cl-E-Chloride, SM4500 SO4 E- Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) 6020-Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, 7470A- Mercury, SM2340B, IC/PMS - Total Hardness (as CaCO3) 9315 Ra226 - Radium 226, 9320 Ra228 - Radium 228, Ra226Ra228 GFC - Radium 226 + Radium 228 2320B - Total, Carb & Bicarbonate Alkalinity Fieldsampling - Field Sampling Ph FF 4500, F-C-Fluoride, FF SM4500 Cl-E-Chloride, FF SM4500 SO4 E-Sulfate, FF 2540C - TDS FF 6020-Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, FF 7470A-Mercury, FF SM2340B IC/PMS - Total Hardness (as CaCO3), FF 9315 Ra226 - Radium 226, FF 9320 Ra228 - Radium 228, FF Ra226Ra228 GFC - Radium 226 + Radium 228 FF 2320B - Total, Carb & Bicarbonate Alkalinity Total Number of containers	
Sample Identification SW-1-1ft SW-1-1ft - FF SW-1-7ft SW-1-7ft - FF SW-2-1ft SW-2-1ft - FF SW-2-7ft SW-2-7ft - FF SW-3-1ft SW-3-1ft - FF SW-3-4ft		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 - Na2SO4 Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - other (specify)	
Sample Date 10-26-20 Sample Time 1612 1632 1645 1652 1515 1530 1545 1555 0814 0824 0851		Matrix (Water, Solid, or Waste/Oil) Water Water Water Water Water Water Water Water Water Water Water	
Sample Type (C=comp, G=grab) G G G G G G G G G G G G		Special Instructions/Note: 400-194965 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:		Method of Shipment:	
Relinquished by: <i>F. W. W.</i>		Date/Time: 10-27-20 0835	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:	

2.7, 2.4, 3.1, 6.0, 3.8, 1.6, 4.3, 4.4
 0-2, 14, 9, 0.5, 189.



3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 476-2671



Environmental Testing
America

Chain of Custody Record

Client Information
 Client Contact: Lauren Parker
 Company: Southern Company
 Address: 3535 Colonnade Parkway Bin S 530 EC
 City: Birmingham
 State, Zip: AL, 35243
 Phone: 205-992-6283(Tel)
 Email: laparker@southernco.com
 Project Name: Plant Watson
 Site:

Sampler: *Side Agency Site / Col for 10/20/20*
 Lab PM: Whitmore, Chyenne R
 E-Mail: Chyenne.Whitmore@Eurofins.com
 Phone: *850-336-0192*

COC No: 400-95134-34480.1
 Page: *1 of 5*
 Job #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Sewage, Oil)	Analysis Requested										Special Instructions/Note:	
					Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	4500 F-C-Fluoride, SM4500 Cl-E-Chloride, SM4500 SO4 F-Sulfate, 2540C - TDS	6020 Sb,As,Ba,Bi,Ca,Cd,Cr,Cu,Pb,Li,Mo,Se,Tl, 7470A-Mercury, SM2340B IC/PMS - Total Hardness (as CaCO3)	9315 Ra226 - Radium 226, 9320 Ra228 - Radium 228	Ra226Ra228 GFC - Radium 226 + Radium 228	2320B - Total, Carb & Bicarbonate Alkalinity	Field Sampling - Field Sampling Ph	SM4500 SO4 E-Sulfate, FF 2540C - TDS	7470A-Mercury, FF SM2340B IC/PMS - Total Hardness (as CaCO3)		FF 9315 Ra226 - Radium 226, FF 9320 Ra228 - Radium 228
SW-3-4ft - FF	10-26-20	0901	G	Water	X	X	X	X	X	X	X	X	X	X	X	
SW-4-1.5ft		1205		Water	X	X	X	X	X	X	X	X	X	X	X	
SW-4-1.5ft - FF		1215		Water	X	X	X	X	X	X	X	X	X	X	X	
SW-5-1ft		0835		Water	X	X	X	X	X	X	X	X	X	X	X	
SW-5-1ft - FF		0905		Water	X	X	X	X	X	X	X	X	X	X	X	
SW-5-13ft		0925		Water	X	X	X	X	X	X	X	X	X	X	X	
SW-5-13ft - FF		0945		Water	X	X	X	X	X	X	X	X	X	X	X	
SW-6-1ft		1010		Water	X	X	X	X	X	X	X	X	X	X	X	
SW-6-1ft - FF		1020		Water	X	X	X	X	X	X	X	X	X	X	X	
SW-6-9.5ft		1030		Water	X	X	X	X	X	X	X	X	X	X	X	
SW-6-9.5ft - FF		1040		Water	X	X	X	X	X	X	X	X	X	X	X	

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: _____ Time: _____

Relinquished by: *mw* Date/Time: *10-27-20 0635* Company: *ROH*

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No **Custody Seal No.:** _____

Special 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: _____ Date/Time: *10-27-20 835* Company: *ETA*

Received by: *Kathy Rowen* Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-194965-1

Login Number: 194965

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Whitley, Adrian

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7, 2.4, 3.1, 6.0, 3.8, 1.6, 4.3, 4.4, 0.2, 4.5, 0.5°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-1

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	200041	10-09-21
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-21
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-21
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-21
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	12-31-20



Plant Watson

[DOCUMENT TITLE]

SITE ID	TOTAL DEPTH	SAMPLE DEPTH	PH	COND	TEMP	DO MG/L	Turbidity	ORP	Salinity	Date	Time	GPS
SW-5-1	14'	1'	6.59	3994	22.8	6.64	5.05	+92	1.8	10/26/20	0835	Total (Dup-01-00) 0905 - FF (Dup-01-00)
SW-5-13	14'	13'	7.14	18336	25.3	4.78	14.5	+70	11.0	10/26	0925	Total 0945 - FF
SW-6-1	10.5	1'	7.33	12250	24.1	7.78	4.06	+65	7.1	10/26	1010	Total 1020 - FF
SW-6-95	10.5	9.5'	7.22	17890	25.3	4.55	6.10	+59	10.7	10/26	1030	Total 1040 - FF
SW-9-1	5'	1'	7.45	8968	25.0	6.14	3.10	+57	5.1	10/26	1110	Total 1120 - FF
SW-9-4	5'	4'	7.12	10724	23.2	6.03	2.77	+58	6.1	10/26	1130	Total 1140 - FF
SW-10-2	4'	2'	7.20	9925	24.0	6.15	2.98	+53	5.8	10/26	1200	Total 1210 - FF
SW-12	2'	1'	7.11	8877	25.4	6.59	4.53	+53	5.0	10/26	1315	Total 1325 - FF
SW-12	2'	1'	7.11	8877	25.4	6.59	4.53	+53	5.0	10/26	1315	Total 1325 - FF
SW-2-1	8'	1'	7.16	13738	27.5	8.06	3.49	+58	8.2	10/26	1515	Total 1530 - FF
SW-2-7	8'	7'	7.44	14833	25.9	7.62	5.35	-7	8.9	10/26	1545	Total 1555 - FF
SW-1-1	8'	1'	7.93	14171	25.3	8.99	3.65	+35	8.4	10/26	1612	Total Dup-03 @ 1512 1632 - FF - Dup-03 FF @ 1532
SW-1-7	8'	7'	7.86	14925	24.0	8.04	4.46	+31	8.8	10/26	1645	Total 1652 - FF

Plant Watson

[DOCUMENT TITLE]

SITE ID	TOTAL DEPTH	SAMPLE DEPTH	PH	COND	TEMP	DO MG/L	Turbidity	ORP	Salinity	Date	Time	GPS
Sw-3	5'	1'	7.35	15689	21.4	8.17	3.43	+141	9.3	10-26-20	084 0824 FF	
Sw-3	5'	4'	7.45	15840	21.4	8.22	3.08	+134	9.4	10-26-20	0851 0824 MAN 0901 FF	
Sw-17	2'	1"	6.74	16175	22.1	1.51	2.48	+122	9.6	10-26-20	0927 0937 FF	
Sw-16	3'	1.5'	6.71	14253	22.6	1.09	2.74	+114	8.4	10-26-20	1020 1070 FF	
Sw-14	3'	1.5'	6.76	12460	23.3	2.31	2.14	+108	7.2	10-26-20	1105 1115 FF	
Sw-15	3'	1.5'	6.74	1241	23.3	1.81	1.59	+109	7.2	10-26-20	1135 1145 FF	
Sw-4	3'	1.5'	6.78	11603	24.5	3.51	3.01	+109	6.7	10-26-20	1205 ⁰⁷ DWP-1305 1215 FF DWP-021315	
Sw-11	2'	1'	7.04	10264	24.3	6.90	3.10	+105	5.9	10-26-20	1300 1310 FF	
Sw-13	2'	1'	6.79	13336	23.7	3.09	3.09 1.55 MAN	+111	7.8	10-26-20	1340 1350 FF	

EA-01 @ 0705 10-26-20
EA-02 @ 1600 ↓

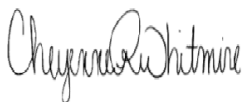
ANALYTICAL REPORT

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

Laboratory Job ID: 400-194965-2
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
12/31/2020 12:30:10 PM

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

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

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

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



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Job ID: 400-194965-2

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-194965-2

RAD

Method 9315: Prep Batch 160-487779. The following sample did not meet the requested limit (RL) due to the low carrier recovery due to the presence of matrix interferences. The data have been reported with this narrative. SW-5-13FT-FF (400-194965-18)

Method 9315: Prep batch 160-487779. The Barium carrier recovery is outside the lower control limit (40%) for the following samples: SW-4-1.5FT (400-194965-13), SW-5-13FT (400-194965-17) and SW-5-13FT-FF (400-194965-18). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 9315: Prep batch 160-487779. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-4-1.5FT (400-194965-13), SW-4-1.5FT-FF (400-194965-14), SW-5-1FT (400-194965-15), SW-5-1FT-FF (400-194965-16), SW-5-13FT (400-194965-17), SW-5-13FT-FF (400-194965-18), SW-6-1FT (400-194965-19), SW-6-1FT-FF (400-194965-20), SW-6-9.5FT (400-194965-21), SW-6-9.5FT-FF (400-194965-22), SW-9-1FT (400-194965-23), SW-9-1FT-FF (400-194965-24), SW-9-4FT (400-194965-25), SW-9-4FT-FF (400-194965-26), SW-10-2FT (400-194965-27), SW-10-2FT-FF (400-194965-28), SW-11-1FT (400-194965-29), SW-11-1FT-FF (400-194965-30), SW-12-1FT (400-194965-31) and SW-12-1FT-FF (400-194965-32)

Method 9315: Radium-226 prep batch 160-488147. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-13-1FT (400-194965-33), SW-13-1FT-FF (400-194965-34), SW-14-1.5FT (400-194965-35), SW-14-1.5FT-FF (400-194965-36), SW-15-1.5FT (400-194965-37), SW-15-1.5FT-FF (400-194965-38), SW-16-1.5FT (400-194965-39), SW-16-1.5FT-FF (400-194965-40), SW-17-1FT (400-194965-41), SW-17-1FT-FF (400-194965-42), EB-01 (400-194965-43), EB-02 (400-194965-44), DUP-01 (400-194965-45), DUP-01-FF (400-194965-46), DUP-02 (400-194965-47), DUP-02-FF (400-194965-48), DUP-03 (400-194965-49), DUP-03-FF (400-194965-50), (LCS 160-488147/1-A), (MB 160-488147/24-A), (500-190086-T-1-A), (500-190086-T-1-B MS) and (500-190086-T-1-C MSD)

Method 9315: Prep batch 160-487741. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-1-1FT (400-194965-1), SW-1-1FT-FF (400-194965-2), SW-1-7FT (400-194965-3), SW-1-7FT-FF (400-194965-4), SW-2-1FT (400-194965-5), SW-2-1FT-FF (400-194965-6), SW-2-7FT (400-194965-7), SW-2-7FT-FF (400-194965-8), SW-3-1FT (400-194965-9), SW-3-1FT-FF (400-194965-10), SW-3-4FT (400-194965-11) and SW-3-4FT-FF (400-194965-12)

Method 9320: Prep batch 160-487781. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-4-1.5FT (400-194965-13), SW-4-1.5FT-FF (400-194965-14), SW-5-1FT (400-194965-15), SW-5-1FT-FF (400-194965-16), SW-5-13FT (400-194965-17), SW-5-13FT-FF (400-194965-18), SW-6-1FT (400-194965-19), SW-6-1FT-FF (400-194965-20), SW-6-9.5FT (400-194965-21), SW-6-9.5FT-FF (400-194965-22), SW-9-1FT (400-194965-23), SW-9-1FT-FF (400-194965-24), SW-9-4FT (400-194965-25), SW-9-4FT-FF (400-194965-26), SW-10-2FT (400-194965-27), SW-10-2FT-FF (400-194965-28), SW-11-1FT (400-194965-29), SW-11-1FT-FF (400-194965-30), SW-12-1FT (400-194965-31) and SW-12-1FT-FF (400-194965-32)

Method 9320: Prep Batch 160-487746. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-1-1FT (400-194965-1), SW-1-1FT-FF (400-194965-2), SW-1-7FT (400-194965-3), SW-1-7FT-FF (400-194965-4), SW-2-1FT (400-194965-5), SW-2-1FT-FF (400-194965-6), SW-2-7FT (400-194965-7), SW-2-7FT-FF (400-194965-8), SW-3-1FT (400-194965-9), SW-3-1FT-FF (400-194965-10), SW-3-4FT (400-194965-11) and SW-3-4FT-FF (400-194965-12)

Method 9320: Radium-228 prep batch 160-487781. The Ba carrier recovery is outside the lower control limit (40%) for the following samples: SW-4-1.5FT (400-194965-13), SW-5-13FT (400-194965-17) and SW-5-13FT-FF (400-194965-18). There was physical evidence

Case Narrative

Client: Southern Company
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Job ID: 400-194965-2

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Laboratory: Eurofins TestAmerica, Pensacola (Continued)

of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 9320: Prep batch 160-488148. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-13-1FT (400-194965-33), SW-13-1FT-FF (400-194965-34), SW-14-1.5FT (400-194965-35), SW-14-1.5FT-FF (400-194965-36), SW-15-1.5FT (400-194965-37), SW-15-1.5FT-FF (400-194965-38), SW-16-1.5FT (400-194965-39), SW-16-1.5FT-FF (400-194965-40), SW-17-1FT (400-194965-41), SW-17-1FT-FF (400-194965-42), EB-01 (400-194965-43), EB-02 (400-194965-44), DUP-01 (400-194965-45), DUP-01-FF (400-194965-46), DUP-02 (400-194965-47), DUP-02-FF (400-194965-48), DUP-03 (400-194965-49), DUP-03-FF (400-194965-50), (500-190086-T-1-D), (500-190086-T-1-E MS) and (500-190086-T-1-F MSD)

Method 9320: Prep Batch: 160-491267. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-9-4FT (400-194965-25) and SW-10-2FT-FF (400-194965-28)

Method PrecSep_0: Radium 228 Prep Batch 160-487746. Insufficient sample volume was available to perform a sample duplicate for the following samples: SW-1-1FT (400-194965-1), SW-1-1FT-FF (400-194965-2), SW-1-7FT (400-194965-3), SW-1-7FT-FF (400-194965-4), SW-2-1FT (400-194965-5), SW-2-1FT-FF (400-194965-6), SW-2-7FT (400-194965-7), SW-2-7FT-FF (400-194965-8), SW-3-1FT (400-194965-9), SW-3-1FT-FF (400-194965-10), SW-3-4FT (400-194965-11) and SW-3-4FT-FF (400-194965-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-487781. The following samples were prepared at a reduced aliquot due to yellow discoloration: SW-4-1.5FT (400-194965-13), SW-4-1.5FT-FF (400-194965-14), SW-5-1FT (400-194965-15), SW-5-1FT-FF (400-194965-16), SW-5-13FT (400-194965-17), SW-5-13FT-FF (400-194965-18), SW-6-1FT (400-194965-19), SW-6-1FT-FF (400-194965-20), SW-6-9.5FT (400-194965-21), SW-6-9.5FT-FF (400-194965-22), SW-9-1FT (400-194965-23), SW-9-1FT-FF (400-194965-24), SW-9-4FT (400-194965-25), SW-9-4FT-FF (400-194965-26), SW-10-2FT (400-194965-27), SW-10-2FT-FF (400-194965-28), SW-11-1FT (400-194965-29), SW-11-1FT-FF (400-194965-30), SW-12-1FT (400-194965-31) and SW-12-1FT-FF (400-194965-32).

Method PrecSep_0: Radium 228 Prep Batch 160-487781. Insufficient sample volume was available to perform a sample duplicate for the following samples: SW-4-1.5FT (400-194965-13), SW-4-1.5FT-FF (400-194965-14), SW-5-1FT (400-194965-15), SW-5-1FT-FF (400-194965-16), SW-5-13FT (400-194965-17), SW-5-13FT-FF (400-194965-18), SW-6-1FT (400-194965-19), SW-6-1FT-FF (400-194965-20), SW-6-9.5FT (400-194965-21), SW-6-9.5FT-FF (400-194965-22), SW-9-1FT (400-194965-23), SW-9-1FT-FF (400-194965-24), SW-9-4FT (400-194965-25), SW-9-4FT-FF (400-194965-26), SW-10-2FT (400-194965-27), SW-10-2FT-FF (400-194965-28), SW-11-1FT (400-194965-29), SW-11-1FT-FF (400-194965-30), SW-12-1FT (400-194965-31) and SW-12-1FT-FF (400-194965-32). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-488148. The following samples were prepared at a reduced aliquot due to yellow discoloration: SW-13-1FT (400-194965-33), SW-13-1FT-FF (400-194965-34), SW-14-1.5FT (400-194965-35), SW-14-1.5FT-FF (400-194965-36), SW-15-1.5FT (400-194965-37), SW-15-1.5FT-FF (400-194965-38), SW-16-1.5FT (400-194965-39), SW-16-1.5FT-FF (400-194965-40), SW-17-1FT (400-194965-41), SW-17-1FT-FF (400-194965-42), DUP-01 (400-194965-45), DUP-01-FF (400-194965-46), DUP-02 (400-194965-47), DUP-02-FF (400-194965-48), DUP-03 (400-194965-49) and DUP-03-FF (400-194965-50).

Method PrecSep_0: Radium 228 prep batch 160-487781. The Yttrium carrier recovery is outside the lower control limit (40%) for the following samples: SW-9-4FT (400-194965-25) and SW-10-2FT-FF (400-194965-28). Samples did not precipitate when the ammonium oxalate was added and the yttrium pellet that was formed was much smaller than that of the QC.

Method PrecSep_0: Radium prep batch 160-487781. The Barium carrier recovery is outside the lower control limit (40%) for the following samples: SW-4-1.5FT (400-194965-13), SW-5-13FT (400-194965-17) and SW-5-13FT-FF (400-194965-18). The barium sulfate precipitation produced pellets much smaller than that of the QC samples and when weighed the barium did not reach the lower weight threshold that is acceptable.

Method PrecSep_0: Radium 228 Prep batch 160-491267. Insufficient sample volume was available to perform a sample duplicate for the

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Client: Southern Company
Project/Site: Plant Watson

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Laboratory: Eurofins TestAmerica, Pensacola (Continued)

following samples due to re-prep: SW-9-4FT (400-194965-25) and SW-10-2FT-FF (400-194965-28). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep batch 160-491267. The following samples contained slight yellow discoloration: SW-9-4FT (400-194965-25) and SW-10-2FT-FF (400-194965-28).

Method PrecSep-21: Radium 226 Prep Batch 160-487741. Insufficient sample volume was available to perform a sample duplicate for the following samples: SW-1-1FT (400-194965-1), SW-1-1FT-FF (400-194965-2), SW-1-7FT (400-194965-3), SW-1-7FT-FF (400-194965-4), SW-2-1FT (400-194965-5), SW-2-1FT-FF (400-194965-6), SW-2-7FT (400-194965-7), SW-2-7FT-FF (400-194965-8), SW-3-1FT (400-194965-9), SW-3-1FT-FF (400-194965-10), SW-3-4FT (400-194965-11) and SW-3-4FT-FF (400-194965-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-487779. Insufficient sample volume was available to perform a sample duplicate for the following samples: SW-4-1.5FT (400-194965-13), SW-4-1.5FT-FF (400-194965-14), SW-5-1FT (400-194965-15), SW-5-1FT-FF (400-194965-16), SW-5-13FT (400-194965-17), SW-5-13FT-FF (400-194965-18), SW-6-1FT (400-194965-19), SW-6-1FT-FF (400-194965-20), SW-6-9.5FT (400-194965-21), SW-6-9.5FT-FF (400-194965-22), SW-9-1FT (400-194965-23), SW-9-1FT-FF (400-194965-24), SW-9-4FT (400-194965-25), SW-9-4FT-FF (400-194965-26), SW-10-2FT (400-194965-27), SW-10-2FT-FF (400-194965-28), SW-11-1FT (400-194965-29), SW-11-1FT-FF (400-194965-30), SW-12-1FT (400-194965-31) and SW-12-1FT-FF (400-194965-32). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-487779. The following samples were prepared at a reduced aliquot due to yellow discoloration: SW-4-1.5FT (400-194965-13), SW-4-1.5FT-FF (400-194965-14), SW-5-1FT (400-194965-15), SW-5-1FT-FF (400-194965-16), SW-5-13FT (400-194965-17), SW-5-13FT-FF (400-194965-18), SW-6-1FT (400-194965-19), SW-6-1FT-FF (400-194965-20), SW-6-9.5FT (400-194965-21), SW-6-9.5FT-FF (400-194965-22), SW-9-1FT (400-194965-23), SW-9-1FT-FF (400-194965-24), SW-9-4FT (400-194965-25), SW-9-4FT-FF (400-194965-26), SW-10-2FT (400-194965-27), SW-10-2FT-FF (400-194965-28), SW-11-1FT (400-194965-29), SW-11-1FT-FF (400-194965-30), SW-12-1FT (400-194965-31) and SW-12-1FT-FF (400-194965-32).

Method PrecSep-21: Radium 226 Prep Batch 160-488147. The following samples were prepared at a reduced aliquot due to yellow discoloration: SW-13-1FT (400-194965-33), SW-13-1FT-FF (400-194965-34), SW-14-1.5FT (400-194965-35), SW-14-1.5FT-FF (400-194965-36), SW-15-1.5FT (400-194965-37), SW-15-1.5FT-FF (400-194965-38), SW-16-1.5FT (400-194965-39), SW-16-1.5FT-FF (400-194965-40), SW-17-1FT (400-194965-41), SW-17-1FT-FF (400-194965-42), DUP-01 (400-194965-45), DUP-01-FF (400-194965-46), DUP-02 (400-194965-47), DUP-02-FF (400-194965-48), DUP-03 (400-194965-49) and DUP-03-FF (400-194965-50).

Method PrecSep-21: Radium 226 prep batch 160-487779. The Barium carrier recovery is outside the lower control limit (40%) for the following samples: SW-4-1.5FT (400-194965-13), SW-5-13FT (400-194965-17) and SW-5-13FT-FF (400-194965-18). The barium sulfate precipitation produced pellets much smaller than that of the QC samples and when weighed the barium did not reach the lower weight threshold that is acceptable.

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

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
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

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

Laboratory References:

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-194965-1	SW-1-1FT	Water	10/26/20 16:12	10/27/20 08:35	
400-194965-2	SW-1-1FT-FF	Water	10/26/20 16:32	10/27/20 08:35	
400-194965-3	SW-1-7FT	Water	10/26/20 16:45	10/27/20 08:35	
400-194965-4	SW-1-7FT-FF	Water	10/26/20 16:52	10/27/20 08:35	
400-194965-5	SW-2-1FT	Water	10/26/20 15:15	10/27/20 08:35	
400-194965-6	SW-2-1FT-FF	Water	10/26/20 15:30	10/27/20 08:35	
400-194965-7	SW-2-7FT	Water	10/26/20 15:45	10/27/20 08:35	
400-194965-8	SW-2-7FT-FF	Water	10/26/20 15:55	10/27/20 08:35	
400-194965-9	SW-3-1FT	Water	10/26/20 08:14	10/27/20 08:35	
400-194965-10	SW-3-1FT-FF	Water	10/26/20 08:24	10/27/20 08:35	
400-194965-11	SW-3-4FT	Water	10/26/20 08:51	10/27/20 08:35	
400-194965-12	SW-3-4FT-FF	Water	10/26/20 09:01	10/27/20 08:35	
400-194965-13	SW-4-1.5FT	Water	10/26/20 12:05	10/27/20 08:35	
400-194965-14	SW-4-1.5FT-FF	Water	10/26/20 12:15	10/27/20 08:35	
400-194965-15	SW-5-1FT	Water	10/26/20 08:35	10/27/20 08:35	
400-194965-16	SW-5-1FT-FF	Water	10/26/20 09:05	10/27/20 08:35	
400-194965-17	SW-5-13FT	Water	10/26/20 09:25	10/27/20 08:35	
400-194965-18	SW-5-13FT-FF	Water	10/26/20 09:45	10/27/20 08:35	
400-194965-19	SW-6-1FT	Water	10/26/20 10:10	10/27/20 08:35	
400-194965-20	SW-6-1FT-FF	Water	10/26/20 10:20	10/27/20 08:35	
400-194965-21	SW-6-9.5FT	Water	10/26/20 10:30	10/27/20 08:35	
400-194965-22	SW-6-9.5FT-FF	Water	10/26/20 10:40	10/27/20 08:35	
400-194965-23	SW-9-1FT	Water	10/26/20 11:10	10/27/20 08:35	
400-194965-24	SW-9-1FT-FF	Water	10/26/20 11:20	10/27/20 08:35	
400-194965-25	SW-9-4FT	Water	10/26/20 11:30	10/27/20 08:35	
400-194965-26	SW-9-4FT-FF	Water	10/26/20 11:40	10/27/20 08:35	
400-194965-27	SW-10-2FT	Water	10/26/20 12:00	10/27/20 08:35	
400-194965-28	SW-10-2FT-FF	Water	10/26/20 12:10	10/27/20 08:35	
400-194965-29	SW-11-1FT	Water	10/26/20 13:00	10/27/20 08:35	
400-194965-30	SW-11-1FT-FF	Water	10/26/20 13:10	10/27/20 08:35	
400-194965-31	SW-12-1FT	Water	10/26/20 13:15	10/27/20 08:35	
400-194965-32	SW-12-1FT-FF	Water	10/26/20 13:25	10/27/20 08:35	
400-194965-33	SW-13-1FT	Water	10/26/20 13:40	10/27/20 08:35	
400-194965-34	SW-13-1FT-FF	Water	10/26/20 13:50	10/27/20 08:35	
400-194965-35	SW-14-1.5FT	Water	10/26/20 11:05	10/27/20 08:35	
400-194965-36	SW-14-1.5FT-FF	Water	10/26/20 11:15	10/27/20 08:35	
400-194965-37	SW-15-1.5FT	Water	10/26/20 11:35	10/27/20 08:35	
400-194965-38	SW-15-1.5FT-FF	Water	10/26/20 11:45	10/27/20 08:35	
400-194965-39	SW-16-1.5FT	Water	10/26/20 10:20	10/27/20 08:35	
400-194965-40	SW-16-1.5FT-FF	Water	10/26/20 10:30	10/27/20 08:35	
400-194965-41	SW-17-1FT	Water	10/26/20 09:27	10/27/20 08:35	
400-194965-42	SW-17-1FT-FF	Water	10/26/20 09:37	10/27/20 08:35	
400-194965-43	EB-01	Water	10/26/20 07:05	10/27/20 08:35	
400-194965-44	EB-02	Water	10/26/20 16:00	10/27/20 08:35	
400-194965-45	DUP-01	Water	10/26/20 07:35	10/27/20 08:35	
400-194965-46	DUP-01-FF	Water	10/26/20 08:05	10/27/20 08:35	
400-194965-47	DUP-02	Water	10/26/20 13:05	10/27/20 08:35	
400-194965-48	DUP-02-FF	Water	10/26/20 13:15	10/27/20 08:35	
400-194965-49	DUP-03	Water	10/26/20 15:12	10/27/20 08:35	
400-194965-50	DUP-03-FF	Water	10/26/20 15:32	10/27/20 08:35	

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-1-1FT

Lab Sample ID: 400-194965-1

Date Collected: 10/26/20 16:12

Matrix: Water

Date Received: 10/27/20 08:35

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	0.158	0.158	1.00	0.274	pCi/L	11/02/20 16:02	12/08/20 08:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.7		40 - 110					11/02/20 16:02	12/08/20 08:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.565		0.317	0.321	1.00	0.478	pCi/L	11/02/20 16:55	12/07/20 13:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.7		40 - 110					11/02/20 16:55	12/07/20 13:14	1
Y Carrier	86.4		40 - 110					11/02/20 16:55	12/07/20 13:14	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	0.666		0.354	0.358	5.00	0.478	pCi/L		12/29/20 17:02	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-1-1FT-FF

Lab Sample ID: 400-194965-2

Date Collected: 10/26/20 16:32

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.283	U	0.204	0.205	1.00	0.287	pCi/L	11/02/20 16:02	12/08/20 08:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.0		40 - 110					11/02/20 16:02	12/08/20 08:26	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	0.713		0.343	0.349	1.00	0.502	pCi/L	11/02/20 16:55	12/07/20 13:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.0		40 - 110					11/02/20 16:55	12/07/20 13:15	1
Y Carrier	83.7		40 - 110					11/02/20 16:55	12/07/20 13:15	1

Method: Ra226_Ra228 Pos - 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	0.996		0.399	0.405	5.00	0.502	pCi/L		12/29/20 17:10	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-1-7FT

Lab Sample ID: 400-194965-3

Date Collected: 10/26/20 16:45

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.207	U	0.211	0.212	1.00	0.333	pCi/L	11/02/20 16:02	12/08/20 08:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.7		40 - 110					11/02/20 16:02	12/08/20 08:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.174	U	0.308	0.309	1.00	0.523	pCi/L	11/02/20 16:55	12/07/20 13:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.7		40 - 110					11/02/20 16:55	12/07/20 13:15	1
Y Carrier	80.7		40 - 110					11/02/20 16:55	12/07/20 13:15	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	0.381	U	0.373	0.375	5.00	0.523	pCi/L		12/29/20 17:02	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-1-7FT-FF

Lab Sample ID: 400-194965-4

Date Collected: 10/26/20 16:52

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.418		0.234	0.237	1.00	0.297	pCi/L	11/02/20 16:02	12/08/20 08:26	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	75.1		40 - 110					11/02/20 16:02	12/08/20 08:26	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	0.801		0.382	0.389	1.00	0.550	pCi/L	11/02/20 16:55	12/07/20 13:15	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	75.1		40 - 110					11/02/20 16:55	12/07/20 13:15	1
Y Carrier	72.9		40 - 110					11/02/20 16:55	12/07/20 13:15	1

Method: Ra226_Ra228 Pos - 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	1.22		0.448	0.456	5.00	0.550	pCi/L		12/29/20 17:10	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-2-1FT

Lab Sample ID: 400-194965-5

Date Collected: 10/26/20 15:15

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.444		0.276	0.279	1.00	0.369	pCi/L	11/02/20 16:02	12/08/20 08:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.9		40 - 110					11/02/20 16:02	12/08/20 08:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.05		0.462	0.473	1.00	0.664	pCi/L	11/02/20 16:55	12/07/20 13:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.9		40 - 110					11/02/20 16:55	12/07/20 13:15	1
Y Carrier	79.3		40 - 110					11/02/20 16:55	12/07/20 13:15	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	1.50		0.538	0.549	5.00	0.664	pCi/L		12/29/20 17:02	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-2-1FT-FF

Lab Sample ID: 400-194965-6

Date Collected: 10/26/20 15:30

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.174	U	0.188	0.188	1.00	0.300	pCi/L	11/02/20 16:02	12/08/20 10:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.3		40 - 110					11/02/20 16:02	12/08/20 10:58	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	0.445	U	0.336	0.338	1.00	0.529	pCi/L	11/02/20 16:55	12/07/20 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.3		40 - 110					11/02/20 16:55	12/07/20 13:09	1
Y Carrier	84.5		40 - 110					11/02/20 16:55	12/07/20 13:09	1

Method: Ra226_Ra228 Pos - 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	0.618		0.385	0.387	5.00	0.529	pCi/L		12/29/20 17:10	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-2-7FT

Lab Sample ID: 400-194965-7

Date Collected: 10/26/20 15:45

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.458		0.231	0.234	1.00	0.268	pCi/L	11/02/20 16:02	12/08/20 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.6		40 - 110					11/02/20 16:02	12/08/20 11:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0959	U	0.305	0.305	1.00	0.568	pCi/L	11/02/20 16:55	12/07/20 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.6		40 - 110					11/02/20 16:55	12/07/20 13:09	1
Y Carrier	77.0		40 - 110					11/02/20 16:55	12/07/20 13:09	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	0.362	U	0.383	0.384	5.00	0.568	pCi/L		12/29/20 17:02	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-2-7FT-FF

Lab Sample ID: 400-194965-8

Date Collected: 10/26/20 15:55

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.444		0.219	0.222	1.00	0.264	pCi/L	11/02/20 16:02	12/08/20 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					11/02/20 16:02	12/08/20 11:37	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	1.03		0.377	0.389	1.00	0.511	pCi/L	11/02/20 16:55	12/07/20 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					11/02/20 16:55	12/07/20 13:09	1
Y Carrier	68.4		40 - 110					11/02/20 16:55	12/07/20 13:09	1

Method: Ra226_Ra228 Pos - 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	1.48		0.436	0.448	5.00	0.511	pCi/L		12/29/20 17:10	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-3-1FT

Lab Sample ID: 400-194965-9

Date Collected: 10/26/20 08:14

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.182	U	0.201	0.202	1.00	0.326	pCi/L	11/02/20 16:02	12/08/20 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.4		40 - 110					11/02/20 16:02	12/08/20 11:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.283	U	0.336	0.337	1.00	0.555	pCi/L	11/02/20 16:55	12/07/20 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.4		40 - 110					11/02/20 16:55	12/07/20 13:09	1
Y Carrier	81.5		40 - 110					11/02/20 16:55	12/07/20 13:09	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	0.465	U	0.392	0.393	5.00	0.555	pCi/L		12/29/20 17:02	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-3-1FT-FF

Lab Sample ID: 400-194965-10

Date Collected: 10/26/20 08:24

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.322		0.219	0.221	1.00	0.304	pCi/L	11/02/20 16:02	12/08/20 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.3		40 - 110					11/02/20 16:02	12/08/20 11:37	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	0.0633	U	0.309	0.309	1.00	0.542	pCi/L	11/02/20 16:55	12/07/20 13:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.3		40 - 110					11/02/20 16:55	12/07/20 13:10	1
Y Carrier	83.7		40 - 110					11/02/20 16:55	12/07/20 13:10	1

Method: Ra226_Ra228 Pos - 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	0.385	U	0.379	0.380	5.00	0.542	pCi/L		12/29/20 17:10	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-3-4FT

Lab Sample ID: 400-194965-11

Date Collected: 10/26/20 08:51

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.425		0.215	0.218	1.00	0.258	pCi/L	11/02/20 16:02	12/08/20 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					11/02/20 16:02	12/08/20 11:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.251	U	0.257	0.258	1.00	0.417	pCi/L	11/02/20 16:55	12/07/20 13:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					11/02/20 16:55	12/07/20 13:10	1
Y Carrier	74.8		40 - 110					11/02/20 16:55	12/07/20 13:10	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	0.676		0.335	0.338	5.00	0.417	pCi/L		12/29/20 17:02	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-3-4FT-FF

Lab Sample ID: 400-194965-12

Date Collected: 10/26/20 09:01

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.317	U	0.236	0.238	1.00	0.348	pCi/L	11/02/20 16:02	12/08/20 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		40 - 110					11/02/20 16:02	12/08/20 11:37	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	-0.164	U	0.209	0.210	1.00	0.419	pCi/L	11/02/20 16:55	12/07/20 13:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		40 - 110					11/02/20 16:55	12/07/20 13:10	1
Y Carrier	86.4		40 - 110					11/02/20 16:55	12/07/20 13:10	1

Method: Ra226_Ra228 Pos - 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	0.317	U	0.315	0.317	5.00	0.419	pCi/L		12/29/20 17:10	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-4-1.5FT

Lab Sample ID: 400-194965-13

Date Collected: 10/26/20 12:05

Matrix: Water

Date Received: 10/27/20 08:35

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	U	0.315	0.316	1.00	0.560	pCi/L	11/03/20 09:39	12/07/20 06:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	31.5	X	40 - 110					11/03/20 09:39	12/07/20 06:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.246	U G	0.990	0.991	1.00	1.82	pCi/L	11/03/20 09:59	12/04/20 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	31.5	X	40 - 110					11/03/20 09:59	12/04/20 11:48	1
Y Carrier	74.4		40 - 110					11/03/20 09:59	12/04/20 11:48	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	-0.0746	U	1.04	1.04	5.00	1.82	pCi/L		12/29/20 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-4-1.5FT-FF

Lab Sample ID: 400-194965-14

Date Collected: 10/26/20 12:15

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.213	U	0.187	0.188	1.00	0.284	pCi/L	11/03/20 09:39	12/07/20 06:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.6		40 - 110					11/03/20 09:39	12/07/20 06:26	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	0.693		0.443	0.448	1.00	0.678	pCi/L	11/03/20 09:59	12/04/20 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.6		40 - 110					11/03/20 09:59	12/04/20 11:48	1
Y Carrier	81.9		40 - 110					11/03/20 09:59	12/04/20 11:48	1

Method: Ra226_Ra228 Pos - 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	0.906		0.481	0.486	5.00	0.678	pCi/L		12/29/20 17:11	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-5-1FT

Lab Sample ID: 400-194965-15

Date Collected: 10/26/20 08:35

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.187	U	0.187	0.187	1.00	0.291	pCi/L	11/03/20 09:39	12/07/20 06:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	64.5		40 - 110					11/03/20 09:39	12/07/20 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	0.0582	U	0.438	0.438	1.00	0.774	pCi/L	11/03/20 09:59	12/04/20 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	64.5		40 - 110					11/03/20 09:59	12/04/20 11:48	1
Y Carrier	89.7		40 - 110					11/03/20 09:59	12/04/20 11:48	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	0.245	U	0.476	0.476	5.00	0.774	pCi/L		12/29/20 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-5-1FT-FF

Lab Sample ID: 400-194965-16

Date Collected: 10/26/20 09:05

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.000	U	0.135	0.135	1.00	0.277	pCi/L	11/03/20 09:39	12/07/20 06:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.4		40 - 110					11/03/20 09:39	12/07/20 06:26	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	0.257	U	0.445	0.446	1.00	0.754	pCi/L	11/03/20 09:59	12/04/20 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.4		40 - 110					11/03/20 09:59	12/04/20 11:49	1
Y Carrier	80.7		40 - 110					11/03/20 09:59	12/04/20 11:49	1

Method: Ra226_Ra228 Pos - 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	0.257	U	0.465	0.466	5.00	0.754	pCi/L		12/29/20 17:11	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-5-13FT

Lab Sample ID: 400-194965-17

Date Collected: 10/26/20 09:25

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0480	U	0.302	0.302	1.00	0.605	pCi/L	11/03/20 09:39	12/07/20 10:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	26.7	X	40 - 110					11/03/20 09:39	12/07/20 10:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.755	U G	1.26	1.27	1.00	2.13	pCi/L	11/03/20 09:59	12/04/20 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	26.7	X	40 - 110					11/03/20 09:59	12/04/20 11:49	1
Y Carrier	79.3		40 - 110					11/03/20 09:59	12/04/20 11:49	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	0.803	U	1.30	1.31	5.00	2.13	pCi/L		12/29/20 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-5-13FT-FF

Lab Sample ID: 400-194965-18

Date Collected: 10/26/20 09:45

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.133	U G	0.630	0.631	1.00	1.22	pCi/L	11/03/20 09:39	12/07/20 10:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	14.5	X	40 - 110					11/03/20 09:39	12/07/20 10:57	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	1.17	U G	1.85	1.85	1.00	3.12	pCi/L	11/03/20 09:59	12/04/20 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	14.5	X	40 - 110					11/03/20 09:59	12/04/20 11:49	1
Y Carrier	96.1		40 - 110					11/03/20 09:59	12/04/20 11:49	1

Method: Ra226_Ra228 Pos - 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	1.30	U	1.95	1.95	5.00	3.12	pCi/L		12/29/20 17:11	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-6-1FT

Lab Sample ID: 400-194965-19

Date Collected: 10/26/20 10:10

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.163	U	0.164	0.165	1.00	0.254	pCi/L	11/03/20 09:39	12/07/20 10:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.2		40 - 110					11/03/20 09:39	12/07/20 10:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.188	U	0.415	0.416	1.00	0.714	pCi/L	11/03/20 09:59	12/04/20 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.2		40 - 110					11/03/20 09:59	12/04/20 11:49	1
Y Carrier	85.6		40 - 110					11/03/20 09:59	12/04/20 11:49	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	0.351	U	0.446	0.448	5.00	0.714	pCi/L		12/29/20 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-6-1FT-FF

Lab Sample ID: 400-194965-20

Date Collected: 10/26/20 10:20

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.342		0.196	0.199	1.00	0.254	pCi/L	11/03/20 09:39	12/07/20 10:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.5		40 - 110					11/03/20 09:39	12/07/20 10:57	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	0.210	U	0.363	0.364	1.00	0.615	pCi/L	11/03/20 09:59	12/04/20 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.5		40 - 110					11/03/20 09:59	12/04/20 11:49	1
Y Carrier	96.8		40 - 110					11/03/20 09:59	12/04/20 11:49	1

Method: Ra226_Ra228 Pos - 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	0.552	U	0.413	0.415	5.00	0.615	pCi/L		12/29/20 17:11	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-6-9.5FT

Lab Sample ID: 400-194965-21

Date Collected: 10/26/20 10:30

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.330		0.224	0.226	1.00	0.318	pCi/L	11/03/20 09:39	12/07/20 10:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.4		40 - 110					11/03/20 09:39	12/07/20 10:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.260	U	0.411	0.412	1.00	0.693	pCi/L	11/03/20 09:59	12/04/20 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.4		40 - 110					11/03/20 09:59	12/04/20 11:49	1
Y Carrier	95.3		40 - 110					11/03/20 09:59	12/04/20 11:49	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	0.590	U	0.468	0.470	5.00	0.693	pCi/L		12/29/20 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-6-9.5FT-FF

Lab Sample ID: 400-194965-22

Date Collected: 10/26/20 10:40

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.254	U	0.190	0.192	1.00	0.274	pCi/L	11/03/20 09:39	12/07/20 10:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.8		40 - 110					11/03/20 09:39	12/07/20 10:57	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	0.488	U	0.428	0.430	1.00	0.683	pCi/L	11/03/20 09:59	12/04/20 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.8		40 - 110					11/03/20 09:59	12/04/20 11:49	1
Y Carrier	87.5		40 - 110					11/03/20 09:59	12/04/20 11:49	1

Method: Ra226_Ra228 Pos - 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	0.742		0.468	0.471	5.00	0.683	pCi/L		12/29/20 17:11	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-9-1FT

Lab Sample ID: 400-194965-23

Date Collected: 10/26/20 11:10

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.366		0.203	0.206	1.00	0.256	pCi/L	11/03/20 09:39	12/07/20 10:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.9		40 - 110					11/03/20 09:39	12/07/20 10:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.202	U	0.357	0.357	1.00	0.606	pCi/L	11/03/20 09:59	12/04/20 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.9		40 - 110					11/03/20 09:59	12/04/20 11:49	1
Y Carrier	101		40 - 110					11/03/20 09:59	12/04/20 11:49	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	0.568	U	0.411	0.412	5.00	0.606	pCi/L		12/29/20 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-9-1FT-FF

Lab Sample ID: 400-194965-24

Date Collected: 10/26/20 11:20

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.360		0.219	0.221	1.00	0.303	pCi/L	11/03/20 09:39	12/07/20 10:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.8		40 - 110					11/03/20 09:39	12/07/20 10:57	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	0.298	U	0.463	0.464	1.00	0.778	pCi/L	11/03/20 09:59	12/04/20 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.8		40 - 110					11/03/20 09:59	12/04/20 11:50	1
Y Carrier	81.1		40 - 110					11/03/20 09:59	12/04/20 11:50	1

Method: Ra226_Ra228 Pos - 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	0.657	U	0.512	0.514	5.00	0.778	pCi/L		12/29/20 17:11	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-9-4FT

Lab Sample ID: 400-194965-25

Date Collected: 10/26/20 11:30

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.326		0.216	0.218	1.00	0.284	pCi/L	11/03/20 09:39	12/07/20 10:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.4		40 - 110					11/03/20 09:39	12/07/20 10:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.722	U	0.491	0.496	1.00	0.766	pCi/L	12/09/20 08:22	12/23/20 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					12/09/20 08:22	12/23/20 08:31	1
Y Carrier	68.8		40 - 110					12/09/20 08:22	12/23/20 08:31	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	1.05		0.536	0.542	5.00	0.766	pCi/L		12/29/20 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-9-4FT-FF

Lab Sample ID: 400-194965-26

Date Collected: 10/26/20 11:40

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.187	U	0.174	0.175	1.00	0.268	pCi/L	11/03/20 09:39	12/07/20 10:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.2		40 - 110					11/03/20 09:39	12/07/20 10:58	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	-0.386	U	0.344	0.345	1.00	0.710	pCi/L	11/03/20 09:59	12/04/20 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.2		40 - 110					11/03/20 09:59	12/04/20 11:50	1
Y Carrier	75.1		40 - 110					11/03/20 09:59	12/04/20 11:50	1

Method: Ra226_Ra228 Pos - 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	0.187	U	0.386	0.387	5.00	0.710	pCi/L		12/29/20 17:11	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-10-2FT

Lab Sample ID: 400-194965-27

Date Collected: 10/26/20 12:00

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.211	U	0.169	0.170	1.00	0.244	pCi/L	11/03/20 09:39	12/07/20 10:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.5		40 - 110					11/03/20 09:39	12/07/20 10:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.347	U G	0.603	0.604	1.00	1.03	pCi/L	11/03/20 09:59	12/04/20 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.5		40 - 110					11/03/20 09:59	12/04/20 11:50	1
Y Carrier	49.3		40 - 110					11/03/20 09:59	12/04/20 11:50	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	0.558	U	0.626	0.627	5.00	1.03	pCi/L		12/29/20 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-10-2FT-FF

Lab Sample ID: 400-194965-28

Date Collected: 10/26/20 12:10

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.192	U	0.155	0.156	1.00	0.224	pCi/L	11/03/20 09:39	12/07/20 10:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.6		40 - 110					11/03/20 09:39	12/07/20 10:59	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	0.0699	U	0.341	0.341	1.00	0.598	pCi/L	12/09/20 08:22	12/23/20 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					12/09/20 08:22	12/23/20 08:31	1
Y Carrier	75.9		40 - 110					12/09/20 08:22	12/23/20 08:31	1

Method: Ra226_Ra228 Pos - 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	0.262	U	0.375	0.375	5.00	0.598	pCi/L		12/29/20 17:11	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-11-1FT

Lab Sample ID: 400-194965-29

Date Collected: 10/26/20 13:00

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.196	U	0.153	0.154	1.00	0.219	pCi/L	11/03/20 09:39	12/07/20 10:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.4		40 - 110					11/03/20 09:39	12/07/20 10:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.156	U	0.338	0.338	1.00	0.634	pCi/L	11/03/20 09:59	12/04/20 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.4		40 - 110					11/03/20 09:59	12/04/20 11:51	1
Y Carrier	87.9		40 - 110					11/03/20 09:59	12/04/20 11:51	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	0.0407	U	0.371	0.371	5.00	0.634	pCi/L		12/29/20 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-11-1FT-FF

Lab Sample ID: 400-194965-30

Date Collected: 10/26/20 13:10

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.229		0.158	0.160	1.00	0.213	pCi/L	11/03/20 09:39	12/07/20 10:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.6		40 - 110					11/03/20 09:39	12/07/20 10:59	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	0.588	U	0.435	0.439	1.00	0.681	pCi/L	11/03/20 09:59	12/04/20 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.6		40 - 110					11/03/20 09:59	12/04/20 11:51	1
Y Carrier	79.6		40 - 110					11/03/20 09:59	12/04/20 11:51	1

Method: Ra226_Ra228 Pos - 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	0.816		0.463	0.467	5.00	0.681	pCi/L		12/29/20 17:11	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-12-1FT

Lab Sample ID: 400-194965-31

Date Collected: 10/26/20 13:15

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.390		0.200	0.204	1.00	0.242	pCi/L	11/03/20 09:39	12/07/20 10:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		40 - 110					11/03/20 09:39	12/07/20 10:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.826	U	0.611	0.616	1.00	0.961	pCi/L	11/03/20 09:59	12/04/20 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		40 - 110					11/03/20 09:59	12/04/20 11:51	1
Y Carrier	63.6		40 - 110					11/03/20 09:59	12/04/20 11:51	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	1.22		0.643	0.649	5.00	0.961	pCi/L		12/29/20 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-12-1FT-FF

Lab Sample ID: 400-194965-32

Date Collected: 10/26/20 13:25

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.369		0.189	0.192	1.00	0.218	pCi/L	11/03/20 09:39	12/07/20 10:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		40 - 110					11/03/20 09:39	12/07/20 10:59	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	0.358	U	0.439	0.441	1.00	0.727	pCi/L	11/03/20 09:59	12/04/20 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		40 - 110					11/03/20 09:59	12/04/20 11:52	1
Y Carrier	78.9		40 - 110					11/03/20 09:59	12/04/20 11:52	1

Method: Ra226_Ra228 Pos - 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	0.727		0.478	0.481	5.00	0.727	pCi/L		12/29/20 17:11	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-13-1FT

Lab Sample ID: 400-194965-33

Date Collected: 10/26/20 13:40

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0922	U	0.194	0.195	1.00	0.356	pCi/L	11/04/20 08:11	12/08/20 06:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.9		40 - 110					11/04/20 08:11	12/08/20 06:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.502	U	0.442	0.445	1.00	0.707	pCi/L	11/04/20 08:49	12/07/20 13:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.9		40 - 110					11/04/20 08:49	12/07/20 13:23	1
Y Carrier	71.8		40 - 110					11/04/20 08:49	12/07/20 13:23	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	0.594	U	0.483	0.486	5.00	0.707	pCi/L		12/29/20 17:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-13-1FT-FF

Lab Sample ID: 400-194965-34

Date Collected: 10/26/20 13:50

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.236	U	0.268	0.269	1.00	0.433	pCi/L	11/04/20 08:11	12/08/20 06:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.5		40 - 110					11/04/20 08:11	12/08/20 06:19	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	0.186	U	0.407	0.408	1.00	0.700	pCi/L	11/04/20 08:49	12/07/20 13:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.5		40 - 110					11/04/20 08:49	12/07/20 13:23	1
Y Carrier	82.2		40 - 110					11/04/20 08:49	12/07/20 13:23	1

Method: Ra226_Ra228 Pos - 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	0.422	U	0.487	0.489	5.00	0.700	pCi/L		12/29/20 17:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-14-1.5FT

Lab Sample ID: 400-194965-35

Date Collected: 10/26/20 11:05

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.403	U	0.335	0.337	1.00	0.505	pCi/L	11/04/20 08:11	12/08/20 06:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.5		40 - 110					11/04/20 08:11	12/08/20 06:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0920	U	0.438	0.438	1.00	0.771	pCi/L	11/04/20 08:49	12/07/20 13:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.5		40 - 110					11/04/20 08:49	12/07/20 13:23	1
Y Carrier	78.9		40 - 110					11/04/20 08:49	12/07/20 13:23	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	0.495	U	0.551	0.553	5.00	0.771	pCi/L		12/29/20 17:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-14-1.5FT-FF

Lab Sample ID: 400-194965-36

Date Collected: 10/26/20 11:15

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.439		0.299	0.301	1.00	0.415	pCi/L	11/04/20 08:11	12/08/20 06:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.8		40 - 110					11/04/20 08:11	12/08/20 06:19	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	0.309	U	0.441	0.442	1.00	0.739	pCi/L	11/04/20 08:49	12/07/20 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.8		40 - 110					11/04/20 08:49	12/07/20 13:24	1
Y Carrier	74.8		40 - 110					11/04/20 08:49	12/07/20 13:24	1

Method: Ra226_Ra228 Pos - 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	0.748		0.533	0.535	5.00	0.739	pCi/L		12/29/20 17:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-15-1.5FT

Lab Sample ID: 400-194965-37

Date Collected: 10/26/20 11:35

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.250	U	0.244	0.245	1.00	0.373	pCi/L	11/04/20 08:11	12/08/20 10:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.4		40 - 110					11/04/20 08:11	12/08/20 10:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.118	U	0.393	0.393	1.00	0.725	pCi/L	11/04/20 08:49	12/07/20 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.4		40 - 110					11/04/20 08:49	12/07/20 13:24	1
Y Carrier	76.3		40 - 110					11/04/20 08:49	12/07/20 13:24	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	0.132	U	0.463	0.463	5.00	0.725	pCi/L		12/29/20 17:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-15-1.5FT-FF

Lab Sample ID: 400-194965-38

Date Collected: 10/26/20 11:45

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.371	U	0.325	0.326	1.00	0.500	pCi/L	11/04/20 08:11	12/08/20 06:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.6		40 - 110					11/04/20 08:11	12/08/20 06:20	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	0.562	U	0.533	0.535	1.00	0.864	pCi/L	11/04/20 08:49	12/07/20 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.6		40 - 110					11/04/20 08:49	12/07/20 13:24	1
Y Carrier	79.3		40 - 110					11/04/20 08:49	12/07/20 13:24	1

Method: Ra226_Ra228 Pos - 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	0.933		0.624	0.626	5.00	0.864	pCi/L		12/29/20 17:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-16-1.5FT

Lab Sample ID: 400-194965-39

Date Collected: 10/26/20 10:20

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.346	U	0.310	0.312	1.00	0.461	pCi/L	11/04/20 08:11	12/08/20 06:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.7		40 - 110					11/04/20 08:11	12/08/20 06:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.536	U	0.541	0.543	1.00	0.881	pCi/L	11/04/20 08:49	12/07/20 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.7		40 - 110					11/04/20 08:49	12/07/20 13:24	1
Y Carrier	77.8		40 - 110					11/04/20 08:49	12/07/20 13:24	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	0.883		0.624	0.626	5.00	0.881	pCi/L		12/29/20 17:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-16-1.5FT-FF

Lab Sample ID: 400-194965-40

Date Collected: 10/26/20 10:30

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.199	U	0.271	0.272	1.00	0.457	pCi/L	11/04/20 08:11	12/08/20 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.6		40 - 110					11/04/20 08:11	12/08/20 06:22	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	0.268	U	0.552	0.552	1.00	0.938	pCi/L	11/04/20 08:49	12/07/20 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.6		40 - 110					11/04/20 08:49	12/07/20 13:24	1
Y Carrier	78.5		40 - 110					11/04/20 08:49	12/07/20 13:24	1

Method: Ra226_Ra228 Pos - 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	0.467	U	0.615	0.615	5.00	0.938	pCi/L		12/29/20 17:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-17-1FT

Lab Sample ID: 400-194965-41

Date Collected: 10/26/20 09:27

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0643	U	0.157	0.157	1.00	0.378	pCi/L	11/04/20 08:11	12/08/20 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.4		40 - 110					11/04/20 08:11	12/08/20 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.536	U	0.474	0.476	1.00	0.759	pCi/L	11/04/20 08:49	12/07/20 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.4		40 - 110					11/04/20 08:49	12/07/20 13:24	1
Y Carrier	77.4		40 - 110					11/04/20 08:49	12/07/20 13:24	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	0.471	U	0.499	0.501	5.00	0.759	pCi/L		12/29/20 17:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-17-1FT-FF

Lab Sample ID: 400-194965-42

Date Collected: 10/26/20 09:37

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0923	U	0.201	0.201	1.00	0.368	pCi/L	11/04/20 08:11	12/08/20 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.7		40 - 110					11/04/20 08:11	12/08/20 06:22	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	0.399	U	0.488	0.489	1.00	0.806	pCi/L	11/04/20 08:49	12/07/20 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.7		40 - 110					11/04/20 08:49	12/07/20 13:24	1
Y Carrier	78.1		40 - 110					11/04/20 08:49	12/07/20 13:24	1

Method: Ra226_Ra228 Pos - 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	0.491	U	0.528	0.529	5.00	0.806	pCi/L		12/29/20 17:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: EB-01

Lab Sample ID: 400-194965-43

Date Collected: 10/26/20 07:05

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0562	U	0.134	0.135	1.00	0.250	pCi/L	11/04/20 08:11	12/08/20 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					11/04/20 08:11	12/08/20 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.377	U	0.297	0.299	1.00	0.470	pCi/L	11/04/20 08:49	12/07/20 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					11/04/20 08:49	12/07/20 13:24	1
Y Carrier	80.0		40 - 110					11/04/20 08:49	12/07/20 13:24	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	0.433	U	0.326	0.328	5.00	0.470	pCi/L		12/29/20 17:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: EB-02
Date Collected: 10/26/20 16:00
Date Received: 10/27/20 08:35

Lab Sample ID: 400-194965-44
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	0.122	0.122	1.00	0.250	pCi/L	11/04/20 08:11	12/08/20 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					11/04/20 08:11	12/08/20 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0506	U	0.255	0.255	1.00	0.471	pCi/L	11/04/20 08:49	12/07/20 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					11/04/20 08:49	12/07/20 13:24	1
Y Carrier	78.5		40 - 110					11/04/20 08:49	12/07/20 13:24	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	-0.0351	U	0.283	0.283	5.00	0.471	pCi/L		12/29/20 17:09	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: DUP-01

Lab Sample ID: 400-194965-45

Date Collected: 10/26/20 07:35

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.125	U	0.213	0.213	1.00	0.374	pCi/L	11/04/20 08:11	12/08/20 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					11/04/20 08:11	12/08/20 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.341	U	0.397	0.398	1.00	0.653	pCi/L	11/04/20 08:49	12/07/20 13:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					11/04/20 08:49	12/07/20 13:25	1
Y Carrier	77.0		40 - 110					11/04/20 08:49	12/07/20 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	0.466	U	0.451	0.451	5.00	0.653	pCi/L		12/29/20 17:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: DUP-01-FF

Lab Sample ID: 400-194965-46

Date Collected: 10/26/20 08:05

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.220	U	0.217	0.218	1.00	0.334	pCi/L	11/04/20 08:11	12/08/20 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.7		40 - 110					11/04/20 08:11	12/08/20 06:22	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	0.568	U	0.459	0.462	1.00	0.729	pCi/L	11/04/20 08:49	12/07/20 13:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.7		40 - 110					11/04/20 08:49	12/07/20 13:25	1
Y Carrier	75.9		40 - 110					11/04/20 08:49	12/07/20 13:25	1

Method: Ra226_Ra228 Pos - 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	0.789		0.508	0.511	5.00	0.729	pCi/L		12/29/20 17:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: DUP-02
Date Collected: 10/26/20 13:05
Date Received: 10/27/20 08:35

Lab Sample ID: 400-194965-47
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	0.0842	U	0.203	0.203	1.00	0.376	pCi/L	11/04/20 08:11	12/08/20 06:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.3		40 - 110					11/04/20 08:11	12/08/20 06:23	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	0.341	0.341	1.00	0.615	pCi/L	11/04/20 08:49	12/07/20 13:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.3		40 - 110					11/04/20 08:49	12/07/20 13:25	1
Y Carrier	85.2		40 - 110					11/04/20 08:49	12/07/20 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	0.0842	U	0.397	0.397	5.00	0.615	pCi/L		12/29/20 17:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: DUP-02-FF

Lab Sample ID: 400-194965-48

Date Collected: 10/26/20 13:15

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.442		0.303	0.305	1.00	0.419	pCi/L	11/04/20 08:11	12/08/20 06:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.1		40 - 110					11/04/20 08:11	12/08/20 06:23	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	0.0781	U	0.418	0.419	1.00	0.737	pCi/L	11/04/20 08:49	12/07/20 13:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.1		40 - 110					11/04/20 08:49	12/07/20 13:25	1
Y Carrier	80.0		40 - 110					11/04/20 08:49	12/07/20 13:25	1

Method: Ra226_Ra228 Pos - 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	0.520	U	0.516	0.518	5.00	0.737	pCi/L		12/29/20 17:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: DUP-03
Date Collected: 10/26/20 15:12
Date Received: 10/27/20 08:35

Lab Sample ID: 400-194965-49
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	0.182	U	0.251	0.252	1.00	0.424	pCi/L	11/04/20 08:11	12/08/20 06:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					11/04/20 08:11	12/08/20 06:23	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.774		0.422	0.428	1.00	0.626	pCi/L	11/04/20 08:49	12/07/20 13:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					11/04/20 08:49	12/07/20 13:25	1
Y Carrier	80.0		40 - 110					11/04/20 08:49	12/07/20 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	0.956		0.491	0.497	5.00	0.626	pCi/L		12/29/20 17:04	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: DUP-03-FF

Lab Sample ID: 400-194965-50

Date Collected: 10/26/20 15:32

Matrix: Water

Date Received: 10/27/20 08:35

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.121	U	0.231	0.231	1.00	0.412	pCi/L	11/04/20 08:11	12/08/20 06:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.6		40 - 110					11/04/20 08:11	12/08/20 06:23	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	0.569	U	0.471	0.474	1.00	0.749	pCi/L	11/04/20 08:49	12/07/20 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.6		40 - 110					11/04/20 08:49	12/07/20 13:32	1
Y Carrier	78.5		40 - 110					11/04/20 08:49	12/07/20 13:32	1

Method: Ra226_Ra228 Pos - 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	0.689	U	0.525	0.527	5.00	0.749	pCi/L		12/29/20 17:12	1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.
X	Carrier 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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-1-1FT

Lab Sample ID: 400-194965-1

Date Collected: 10/26/20 16:12

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487741	11/02/20 16:02	MNH	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 08:26	FLC	TAL SL
Total/NA	Prep	PrecSep_0			487746	11/02/20 16:55	MNH	TAL SL
Total/NA	Analysis	9320		1	490995	12/07/20 13:14	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493353	12/29/20 17:02	GRW	TAL SL

Client Sample ID: SW-1-1FT-FF

Lab Sample ID: 400-194965-2

Date Collected: 10/26/20 16:32

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487741	11/02/20 16:02	MNH	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 08:26	FLC	TAL SL
Dissolved	Prep	PrecSep_0			487746	11/02/20 16:55	MNH	TAL SL
Dissolved	Analysis	9320		1	490995	12/07/20 13:15	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493356	12/29/20 17:10	GRW	TAL SL

Client Sample ID: SW-1-7FT

Lab Sample ID: 400-194965-3

Date Collected: 10/26/20 16:45

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487741	11/02/20 16:02	MNH	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 08:26	FLC	TAL SL
Total/NA	Prep	PrecSep_0			487746	11/02/20 16:55	MNH	TAL SL
Total/NA	Analysis	9320		1	490995	12/07/20 13:15	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493353	12/29/20 17:02	GRW	TAL SL

Client Sample ID: SW-1-7FT-FF

Lab Sample ID: 400-194965-4

Date Collected: 10/26/20 16:52

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487741	11/02/20 16:02	MNH	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 08:26	FLC	TAL SL
Dissolved	Prep	PrecSep_0			487746	11/02/20 16:55	MNH	TAL SL
Dissolved	Analysis	9320		1	490995	12/07/20 13:15	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493356	12/29/20 17:10	GRW	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-2-1FT

Lab Sample ID: 400-194965-5

Date Collected: 10/26/20 15:15

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487741	11/02/20 16:02	MNH	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 08:26	FLC	TAL SL
Total/NA	Prep	PrecSep_0			487746	11/02/20 16:55	MNH	TAL SL
Total/NA	Analysis	9320		1	490995	12/07/20 13:15	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493353	12/29/20 17:02	GRW	TAL SL

Client Sample ID: SW-2-1FT-FF

Lab Sample ID: 400-194965-6

Date Collected: 10/26/20 15:30

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487741	11/02/20 16:02	MNH	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 10:58	FLC	TAL SL
Dissolved	Prep	PrecSep_0			487746	11/02/20 16:55	MNH	TAL SL
Dissolved	Analysis	9320		1	490992	12/07/20 13:09	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493356	12/29/20 17:10	GRW	TAL SL

Client Sample ID: SW-2-7FT

Lab Sample ID: 400-194965-7

Date Collected: 10/26/20 15:45

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487741	11/02/20 16:02	MNH	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 11:37	FLC	TAL SL
Total/NA	Prep	PrecSep_0			487746	11/02/20 16:55	MNH	TAL SL
Total/NA	Analysis	9320		1	490992	12/07/20 13:09	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493353	12/29/20 17:02	GRW	TAL SL

Client Sample ID: SW-2-7FT-FF

Lab Sample ID: 400-194965-8

Date Collected: 10/26/20 15:55

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487741	11/02/20 16:02	MNH	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 11:37	FLC	TAL SL
Dissolved	Prep	PrecSep_0			487746	11/02/20 16:55	MNH	TAL SL
Dissolved	Analysis	9320		1	490992	12/07/20 13:09	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493356	12/29/20 17:10	GRW	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-3-1FT

Lab Sample ID: 400-194965-9

Date Collected: 10/26/20 08:14

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487741	11/02/20 16:02	MNH	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 11:37	FLC	TAL SL
Total/NA	Prep	PrecSep_0			487746	11/02/20 16:55	MNH	TAL SL
Total/NA	Analysis	9320		1	490992	12/07/20 13:09	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493353	12/29/20 17:02	GRW	TAL SL

Client Sample ID: SW-3-1FT-FF

Lab Sample ID: 400-194965-10

Date Collected: 10/26/20 08:24

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487741	11/02/20 16:02	MNH	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 11:37	FLC	TAL SL
Dissolved	Prep	PrecSep_0			487746	11/02/20 16:55	MNH	TAL SL
Dissolved	Analysis	9320		1	490992	12/07/20 13:10	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493356	12/29/20 17:10	GRW	TAL SL

Client Sample ID: SW-3-4FT

Lab Sample ID: 400-194965-11

Date Collected: 10/26/20 08:51

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487741	11/02/20 16:02	MNH	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 11:37	FLC	TAL SL
Total/NA	Prep	PrecSep_0			487746	11/02/20 16:55	MNH	TAL SL
Total/NA	Analysis	9320		1	490992	12/07/20 13:10	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493353	12/29/20 17:02	GRW	TAL SL

Client Sample ID: SW-3-4FT-FF

Lab Sample ID: 400-194965-12

Date Collected: 10/26/20 09:01

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487741	11/02/20 16:02	MNH	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 11:37	FLC	TAL SL
Dissolved	Prep	PrecSep_0			487746	11/02/20 16:55	MNH	TAL SL
Dissolved	Analysis	9320		1	490992	12/07/20 13:10	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493356	12/29/20 17:10	GRW	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-4-1.5FT

Lab Sample ID: 400-194965-13

Date Collected: 10/26/20 12:05

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Total/NA	Analysis	9315		1	490978	12/07/20 06:27	SCB	TAL SL
Total/NA	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Total/NA	Analysis	9320		1	490965	12/04/20 11:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493354	12/29/20 17:03	GRW	TAL SL

Client Sample ID: SW-4-1.5FT-FF

Lab Sample ID: 400-194965-14

Date Collected: 10/26/20 12:15

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Dissolved	Analysis	9315		1	490978	12/07/20 06:26	SCB	TAL SL
Dissolved	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Dissolved	Analysis	9320		1	490965	12/04/20 11:48	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493357	12/29/20 17:11	GRW	TAL SL

Client Sample ID: SW-5-1FT

Lab Sample ID: 400-194965-15

Date Collected: 10/26/20 08:35

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Total/NA	Analysis	9315		1	490978	12/07/20 06:26	SCB	TAL SL
Total/NA	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Total/NA	Analysis	9320		1	490965	12/04/20 11:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493354	12/29/20 17:03	GRW	TAL SL

Client Sample ID: SW-5-1FT-FF

Lab Sample ID: 400-194965-16

Date Collected: 10/26/20 09:05

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Dissolved	Analysis	9315		1	490978	12/07/20 06:26	SCB	TAL SL
Dissolved	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Dissolved	Analysis	9320		1	490965	12/04/20 11:49	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493357	12/29/20 17:11	GRW	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-5-13FT

Lab Sample ID: 400-194965-17

Date Collected: 10/26/20 09:25

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Total/NA	Analysis	9315		1	490978	12/07/20 10:57	SCB	TAL SL
Total/NA	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Total/NA	Analysis	9320		1	490965	12/04/20 11:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493354	12/29/20 17:03	GRW	TAL SL

Client Sample ID: SW-5-13FT-FF

Lab Sample ID: 400-194965-18

Date Collected: 10/26/20 09:45

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Dissolved	Analysis	9315		1	490978	12/07/20 10:57	SCB	TAL SL
Dissolved	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Dissolved	Analysis	9320		1	490965	12/04/20 11:49	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493357	12/29/20 17:11	GRW	TAL SL

Client Sample ID: SW-6-1FT

Lab Sample ID: 400-194965-19

Date Collected: 10/26/20 10:10

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Total/NA	Analysis	9315		1	490978	12/07/20 10:57	SCB	TAL SL
Total/NA	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Total/NA	Analysis	9320		1	490965	12/04/20 11:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493354	12/29/20 17:03	GRW	TAL SL

Client Sample ID: SW-6-1FT-FF

Lab Sample ID: 400-194965-20

Date Collected: 10/26/20 10:20

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Dissolved	Analysis	9315		1	490978	12/07/20 10:57	SCB	TAL SL
Dissolved	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Dissolved	Analysis	9320		1	490965	12/04/20 11:49	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493357	12/29/20 17:11	GRW	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-6-9.5FT

Lab Sample ID: 400-194965-21

Date Collected: 10/26/20 10:30

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Total/NA	Analysis	9315		1	490978	12/07/20 10:57	SCB	TAL SL
Total/NA	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Total/NA	Analysis	9320		1	490965	12/04/20 11:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493354	12/29/20 17:03	GRW	TAL SL

Client Sample ID: SW-6-9.5FT-FF

Lab Sample ID: 400-194965-22

Date Collected: 10/26/20 10:40

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Dissolved	Analysis	9315		1	490978	12/07/20 10:57	SCB	TAL SL
Dissolved	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Dissolved	Analysis	9320		1	490965	12/04/20 11:49	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493357	12/29/20 17:11	GRW	TAL SL

Client Sample ID: SW-9-1FT

Lab Sample ID: 400-194965-23

Date Collected: 10/26/20 11:10

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Total/NA	Analysis	9315		1	490978	12/07/20 10:57	SCB	TAL SL
Total/NA	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Total/NA	Analysis	9320		1	490965	12/04/20 11:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493354	12/29/20 17:03	GRW	TAL SL

Client Sample ID: SW-9-1FT-FF

Lab Sample ID: 400-194965-24

Date Collected: 10/26/20 11:20

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Dissolved	Analysis	9315		1	490978	12/07/20 10:57	SCB	TAL SL
Dissolved	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Dissolved	Analysis	9320		1	490965	12/04/20 11:50	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493357	12/29/20 17:11	GRW	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-9-4FT

Lab Sample ID: 400-194965-25

Date Collected: 10/26/20 11:30

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Total/NA	Analysis	9315		1	490978	12/07/20 10:58	SCB	TAL SL
Total/NA	Prep	PrecSep_0			491267	12/09/20 08:22	KMP	TAL SL
Total/NA	Analysis	9320		1	492901	12/23/20 08:31	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493354	12/29/20 17:03	GRW	TAL SL

Client Sample ID: SW-9-4FT-FF

Lab Sample ID: 400-194965-26

Date Collected: 10/26/20 11:40

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Dissolved	Analysis	9315		1	490978	12/07/20 10:58	SCB	TAL SL
Dissolved	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Dissolved	Analysis	9320		1	490965	12/04/20 11:50	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493357	12/29/20 17:11	GRW	TAL SL

Client Sample ID: SW-10-2FT

Lab Sample ID: 400-194965-27

Date Collected: 10/26/20 12:00

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Total/NA	Analysis	9315		1	490978	12/07/20 10:59	SCB	TAL SL
Total/NA	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Total/NA	Analysis	9320		1	490965	12/04/20 11:50	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493354	12/29/20 17:03	GRW	TAL SL

Client Sample ID: SW-10-2FT-FF

Lab Sample ID: 400-194965-28

Date Collected: 10/26/20 12:10

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Dissolved	Analysis	9315		1	490978	12/07/20 10:59	SCB	TAL SL
Dissolved	Prep	PrecSep_0			491267	12/09/20 08:22	KMP	TAL SL
Dissolved	Analysis	9320		1	492901	12/23/20 08:31	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493357	12/29/20 17:11	GRW	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-11-1FT

Lab Sample ID: 400-194965-29

Date Collected: 10/26/20 13:00

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Total/NA	Analysis	9315		1	490978	12/07/20 10:59	SCB	TAL SL
Total/NA	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Total/NA	Analysis	9320		1	490939	12/04/20 11:51	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493354	12/29/20 17:03	GRW	TAL SL

Client Sample ID: SW-11-1FT-FF

Lab Sample ID: 400-194965-30

Date Collected: 10/26/20 13:10

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Dissolved	Analysis	9315		1	490978	12/07/20 10:59	SCB	TAL SL
Dissolved	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Dissolved	Analysis	9320		1	490939	12/04/20 11:51	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493357	12/29/20 17:11	GRW	TAL SL

Client Sample ID: SW-12-1FT

Lab Sample ID: 400-194965-31

Date Collected: 10/26/20 13:15

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Total/NA	Analysis	9315		1	490978	12/07/20 10:59	SCB	TAL SL
Total/NA	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Total/NA	Analysis	9320		1	490939	12/04/20 11:51	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493354	12/29/20 17:03	GRW	TAL SL

Client Sample ID: SW-12-1FT-FF

Lab Sample ID: 400-194965-32

Date Collected: 10/26/20 13:25

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			487779	11/03/20 09:39	AVB	TAL SL
Dissolved	Analysis	9315		1	490978	12/07/20 10:59	SCB	TAL SL
Dissolved	Prep	PrecSep_0			487781	11/03/20 09:59	AVB	TAL SL
Dissolved	Analysis	9320		1	490939	12/04/20 11:52	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493357	12/29/20 17:11	GRW	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-13-1FT

Lab Sample ID: 400-194965-33

Date Collected: 10/26/20 13:40

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 06:19	FLC	TAL SL
Total/NA	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Total/NA	Analysis	9320		1	490989	12/07/20 13:23	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493355	12/29/20 17:04	GRW	TAL SL

Client Sample ID: SW-13-1FT-FF

Lab Sample ID: 400-194965-34

Date Collected: 10/26/20 13:50

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 06:19	FLC	TAL SL
Dissolved	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Dissolved	Analysis	9320		1	490989	12/07/20 13:23	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493358	12/29/20 17:12	GRW	TAL SL

Client Sample ID: SW-14-1.5FT

Lab Sample ID: 400-194965-35

Date Collected: 10/26/20 11:05

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 06:19	FLC	TAL SL
Total/NA	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Total/NA	Analysis	9320		1	490989	12/07/20 13:23	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493355	12/29/20 17:04	GRW	TAL SL

Client Sample ID: SW-14-1.5FT-FF

Lab Sample ID: 400-194965-36

Date Collected: 10/26/20 11:15

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 06:19	FLC	TAL SL
Dissolved	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Dissolved	Analysis	9320		1	490989	12/07/20 13:24	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493358	12/29/20 17:12	GRW	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-15-1.5FT

Lab Sample ID: 400-194965-37

Date Collected: 10/26/20 11:35

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 10:56	FLC	TAL SL
Total/NA	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Total/NA	Analysis	9320		1	490989	12/07/20 13:24	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493355	12/29/20 17:04	GRW	TAL SL

Client Sample ID: SW-15-1.5FT-FF

Lab Sample ID: 400-194965-38

Date Collected: 10/26/20 11:45

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 06:20	FLC	TAL SL
Dissolved	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Dissolved	Analysis	9320		1	490989	12/07/20 13:24	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493358	12/29/20 17:12	GRW	TAL SL

Client Sample ID: SW-16-1.5FT

Lab Sample ID: 400-194965-39

Date Collected: 10/26/20 10:20

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 06:21	FLC	TAL SL
Total/NA	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Total/NA	Analysis	9320		1	490989	12/07/20 13:24	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493355	12/29/20 17:04	GRW	TAL SL

Client Sample ID: SW-16-1.5FT-FF

Lab Sample ID: 400-194965-40

Date Collected: 10/26/20 10:30

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 06:22	FLC	TAL SL
Dissolved	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Dissolved	Analysis	9320		1	490989	12/07/20 13:24	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493358	12/29/20 17:12	GRW	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: SW-17-1FT

Lab Sample ID: 400-194965-41

Date Collected: 10/26/20 09:27

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 06:22	FLC	TAL SL
Total/NA	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Total/NA	Analysis	9320		1	490989	12/07/20 13:24	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493355	12/29/20 17:04	GRW	TAL SL

Client Sample ID: SW-17-1FT-FF

Lab Sample ID: 400-194965-42

Date Collected: 10/26/20 09:37

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 06:22	FLC	TAL SL
Dissolved	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Dissolved	Analysis	9320		1	490989	12/07/20 13:24	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493358	12/29/20 17:12	GRW	TAL SL

Client Sample ID: EB-01

Lab Sample ID: 400-194965-43

Date Collected: 10/26/20 07:05

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 06:22	FLC	TAL SL
Total/NA	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Total/NA	Analysis	9320		1	490989	12/07/20 13:24	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493355	12/29/20 17:04	GRW	TAL SL

Client Sample ID: EB-02

Lab Sample ID: 400-194965-44

Date Collected: 10/26/20 16:00

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 06:22	FLC	TAL SL
Total/NA	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Total/NA	Analysis	9320		1	490989	12/07/20 13:24	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493355	12/29/20 17:09	GRW	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: DUP-01

Lab Sample ID: 400-194965-45

Date Collected: 10/26/20 07:35

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 06:22	FLC	TAL SL
Total/NA	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Total/NA	Analysis	9320		1	490989	12/07/20 13:25	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493355	12/29/20 17:04	GRW	TAL SL

Client Sample ID: DUP-01-FF

Lab Sample ID: 400-194965-46

Date Collected: 10/26/20 08:05

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 06:22	FLC	TAL SL
Dissolved	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Dissolved	Analysis	9320		1	490989	12/07/20 13:25	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493358	12/29/20 17:12	GRW	TAL SL

Client Sample ID: DUP-02

Lab Sample ID: 400-194965-47

Date Collected: 10/26/20 13:05

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 06:23	FLC	TAL SL
Total/NA	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Total/NA	Analysis	9320		1	490989	12/07/20 13:25	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493355	12/29/20 17:04	GRW	TAL SL

Client Sample ID: DUP-02-FF

Lab Sample ID: 400-194965-48

Date Collected: 10/26/20 13:15

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 06:23	FLC	TAL SL
Dissolved	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Dissolved	Analysis	9320		1	490989	12/07/20 13:25	FLC	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493358	12/29/20 17:12	GRW	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Client Sample ID: DUP-03

Lab Sample ID: 400-194965-49

Date Collected: 10/26/20 15:12

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Total/NA	Analysis	9315		1	491163	12/08/20 06:23	FLC	TAL SL
Total/NA	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Total/NA	Analysis	9320		1	490989	12/07/20 13:25	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	493355	12/29/20 17:04	GRW	TAL SL

Client Sample ID: DUP-03-FF

Lab Sample ID: 400-194965-50

Date Collected: 10/26/20 15:32

Matrix: Water

Date Received: 10/27/20 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			488147	11/04/20 08:11	AVB	TAL SL
Dissolved	Analysis	9315		1	491163	12/08/20 06:23	FLC	TAL SL
Dissolved	Prep	PrecSep_0			488148	11/04/20 08:49	AVB	TAL SL
Dissolved	Analysis	9320		1	490978	12/07/20 13:32	SCB	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	493358	12/29/20 17:12	GRW	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Rad

Prep Batch: 487741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-1	SW-1-1FT	Total/NA	Water	PrecSep-21	
400-194965-2	SW-1-1FT-FF	Dissolved	Water	PrecSep-21	
400-194965-3	SW-1-7FT	Total/NA	Water	PrecSep-21	
400-194965-4	SW-1-7FT-FF	Dissolved	Water	PrecSep-21	
400-194965-5	SW-2-1FT	Total/NA	Water	PrecSep-21	
400-194965-6	SW-2-1FT-FF	Dissolved	Water	PrecSep-21	
400-194965-7	SW-2-7FT	Total/NA	Water	PrecSep-21	
400-194965-8	SW-2-7FT-FF	Dissolved	Water	PrecSep-21	
400-194965-9	SW-3-1FT	Total/NA	Water	PrecSep-21	
400-194965-10	SW-3-1FT-FF	Dissolved	Water	PrecSep-21	
400-194965-11	SW-3-4FT	Total/NA	Water	PrecSep-21	
400-194965-12	SW-3-4FT-FF	Dissolved	Water	PrecSep-21	
MB 160-487741/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-487741/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-487741/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 487746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-1	SW-1-1FT	Total/NA	Water	PrecSep_0	
400-194965-2	SW-1-1FT-FF	Dissolved	Water	PrecSep_0	
400-194965-3	SW-1-7FT	Total/NA	Water	PrecSep_0	
400-194965-4	SW-1-7FT-FF	Dissolved	Water	PrecSep_0	
400-194965-5	SW-2-1FT	Total/NA	Water	PrecSep_0	
400-194965-6	SW-2-1FT-FF	Dissolved	Water	PrecSep_0	
400-194965-7	SW-2-7FT	Total/NA	Water	PrecSep_0	
400-194965-8	SW-2-7FT-FF	Dissolved	Water	PrecSep_0	
400-194965-9	SW-3-1FT	Total/NA	Water	PrecSep_0	
400-194965-10	SW-3-1FT-FF	Dissolved	Water	PrecSep_0	
400-194965-11	SW-3-4FT	Total/NA	Water	PrecSep_0	
400-194965-12	SW-3-4FT-FF	Dissolved	Water	PrecSep_0	
MB 160-487746/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-487746/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-487746/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 487779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-13	SW-4-1.5FT	Total/NA	Water	PrecSep-21	
400-194965-14	SW-4-1.5FT-FF	Dissolved	Water	PrecSep-21	
400-194965-15	SW-5-1FT	Total/NA	Water	PrecSep-21	
400-194965-16	SW-5-1FT-FF	Dissolved	Water	PrecSep-21	
400-194965-17	SW-5-13FT	Total/NA	Water	PrecSep-21	
400-194965-18	SW-5-13FT-FF	Dissolved	Water	PrecSep-21	
400-194965-19	SW-6-1FT	Total/NA	Water	PrecSep-21	
400-194965-20	SW-6-1FT-FF	Dissolved	Water	PrecSep-21	
400-194965-21	SW-6-9.5FT	Total/NA	Water	PrecSep-21	
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	PrecSep-21	
400-194965-23	SW-9-1FT	Total/NA	Water	PrecSep-21	
400-194965-24	SW-9-1FT-FF	Dissolved	Water	PrecSep-21	
400-194965-25	SW-9-4FT	Total/NA	Water	PrecSep-21	
400-194965-26	SW-9-4FT-FF	Dissolved	Water	PrecSep-21	
400-194965-27	SW-10-2FT	Total/NA	Water	PrecSep-21	

Eurofins TestAmerica, Pensacola

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Rad (Continued)

Prep Batch: 487779 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-28	SW-10-2FT-FF	Dissolved	Water	PrecSep-21	
400-194965-29	SW-11-1FT	Total/NA	Water	PrecSep-21	
400-194965-30	SW-11-1FT-FF	Dissolved	Water	PrecSep-21	
400-194965-31	SW-12-1FT	Total/NA	Water	PrecSep-21	
400-194965-32	SW-12-1FT-FF	Dissolved	Water	PrecSep-21	
MB 160-487779/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-487779/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-487779/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 487781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-13	SW-4-1.5FT	Total/NA	Water	PrecSep_0	
400-194965-14	SW-4-1.5FT-FF	Dissolved	Water	PrecSep_0	
400-194965-15	SW-5-1FT	Total/NA	Water	PrecSep_0	
400-194965-16	SW-5-1FT-FF	Dissolved	Water	PrecSep_0	
400-194965-17	SW-5-13FT	Total/NA	Water	PrecSep_0	
400-194965-18	SW-5-13FT-FF	Dissolved	Water	PrecSep_0	
400-194965-19	SW-6-1FT	Total/NA	Water	PrecSep_0	
400-194965-20	SW-6-1FT-FF	Dissolved	Water	PrecSep_0	
400-194965-21	SW-6-9.5FT	Total/NA	Water	PrecSep_0	
400-194965-22	SW-6-9.5FT-FF	Dissolved	Water	PrecSep_0	
400-194965-23	SW-9-1FT	Total/NA	Water	PrecSep_0	
400-194965-24	SW-9-1FT-FF	Dissolved	Water	PrecSep_0	
400-194965-26	SW-9-4FT-FF	Dissolved	Water	PrecSep_0	
400-194965-27	SW-10-2FT	Total/NA	Water	PrecSep_0	
400-194965-29	SW-11-1FT	Total/NA	Water	PrecSep_0	
400-194965-30	SW-11-1FT-FF	Dissolved	Water	PrecSep_0	
400-194965-31	SW-12-1FT	Total/NA	Water	PrecSep_0	
400-194965-32	SW-12-1FT-FF	Dissolved	Water	PrecSep_0	
MB 160-487781/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-487781/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-487781/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 488147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-33	SW-13-1FT	Total/NA	Water	PrecSep-21	
400-194965-34	SW-13-1FT-FF	Dissolved	Water	PrecSep-21	
400-194965-35	SW-14-1.5FT	Total/NA	Water	PrecSep-21	
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	PrecSep-21	
400-194965-37	SW-15-1.5FT	Total/NA	Water	PrecSep-21	
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	PrecSep-21	
400-194965-39	SW-16-1.5FT	Total/NA	Water	PrecSep-21	
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	PrecSep-21	
400-194965-41	SW-17-1FT	Total/NA	Water	PrecSep-21	
400-194965-42	SW-17-1FT-FF	Dissolved	Water	PrecSep-21	
400-194965-43	EB-01	Total/NA	Water	PrecSep-21	
400-194965-44	EB-02	Total/NA	Water	PrecSep-21	
400-194965-45	DUP-01	Total/NA	Water	PrecSep-21	
400-194965-46	DUP-01-FF	Dissolved	Water	PrecSep-21	
400-194965-47	DUP-02	Total/NA	Water	PrecSep-21	
400-194965-48	DUP-02-FF	Dissolved	Water	PrecSep-21	

Eurofins TestAmerica, Pensacola

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Rad (Continued)

Prep Batch: 488147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-49	DUP-03	Total/NA	Water	PrecSep-21	
400-194965-50	DUP-03-FF	Dissolved	Water	PrecSep-21	
MB 160-488147/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-488147/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-190086-T-1-B MS	Matrix Spike	Total/NA	Water	PrecSep-21	
500-190086-T-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 488148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-33	SW-13-1FT	Total/NA	Water	PrecSep_0	
400-194965-34	SW-13-1FT-FF	Dissolved	Water	PrecSep_0	
400-194965-35	SW-14-1.5FT	Total/NA	Water	PrecSep_0	
400-194965-36	SW-14-1.5FT-FF	Dissolved	Water	PrecSep_0	
400-194965-37	SW-15-1.5FT	Total/NA	Water	PrecSep_0	
400-194965-38	SW-15-1.5FT-FF	Dissolved	Water	PrecSep_0	
400-194965-39	SW-16-1.5FT	Total/NA	Water	PrecSep_0	
400-194965-40	SW-16-1.5FT-FF	Dissolved	Water	PrecSep_0	
400-194965-41	SW-17-1FT	Total/NA	Water	PrecSep_0	
400-194965-42	SW-17-1FT-FF	Dissolved	Water	PrecSep_0	
400-194965-43	EB-01	Total/NA	Water	PrecSep_0	
400-194965-44	EB-02	Total/NA	Water	PrecSep_0	
400-194965-45	DUP-01	Total/NA	Water	PrecSep_0	
400-194965-46	DUP-01-FF	Dissolved	Water	PrecSep_0	
400-194965-47	DUP-02	Total/NA	Water	PrecSep_0	
400-194965-48	DUP-02-FF	Dissolved	Water	PrecSep_0	
400-194965-49	DUP-03	Total/NA	Water	PrecSep_0	
400-194965-50	DUP-03-FF	Dissolved	Water	PrecSep_0	
MB 160-488148/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-488148/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-190086-T-1-E MS	Matrix Spike	Total/NA	Water	PrecSep_0	
500-190086-T-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

Prep Batch: 491267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194965-25	SW-9-4FT	Total/NA	Water	PrecSep_0	
400-194965-28	SW-10-2FT-FF	Dissolved	Water	PrecSep_0	
MB 160-491267/5-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-491267/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-491267/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-487741/1-A
Matrix: Water
Analysis Batch: 491163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487741

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.08140	U	0.226	0.226	1.00	0.421	pCi/L	11/02/20 16:02	12/08/20 08:23	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	85.0		40 - 110					11/02/20 16:02	12/08/20 08:23	1

Lab Sample ID: LCS 160-487741/2-A
Matrix: Water
Analysis Batch: 491163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487741

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.53		1.32	1.00	0.275	pCi/L	93	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	80.1		40 - 110					11/02/20 16:02	12/08/20 08:23

Lab Sample ID: LCSD 160-487741/3-A
Matrix: Water
Analysis Batch: 491163

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 487741

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	9.346		1.18	1.00	0.319	pCi/L	82	75 - 125	0.47	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	86.5		40 - 110					11/03/20 09:39	12/07/20 11:00	1	

Lab Sample ID: MB 160-487779/23-A
Matrix: Water
Analysis Batch: 490978

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487779

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1522	U	0.206	0.206	1.00	0.346	pCi/L	11/03/20 09:39	12/07/20 11:00	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	78.5		40 - 110					11/03/20 09:39	12/07/20 11:00	1

Lab Sample ID: LCS 160-487779/1-A
Matrix: Water
Analysis Batch: 490978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487779

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	13.39		1.54	1.00	0.215	pCi/L	89	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-487779/1-A
Matrix: Water
Analysis Batch: 490978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487779

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	77.6		40 - 110

Lab Sample ID: LCSD 160-487779/2-A
Matrix: Water
Analysis Batch: 490978

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 487779

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.		RER	RER
									Limits	RER	Limit	
Radium-226	15.1	13.98		1.62	1.00	0.256	pCi/L	92	75 - 125	0.19		1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	70.9		40 - 110

Lab Sample ID: MB 160-488147/24-A
Matrix: Water
Analysis Batch: 491163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488147

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110	11/04/20 08:11	12/08/20 08:22	1

Lab Sample ID: LCS 160-488147/1-A
Matrix: Water
Analysis Batch: 491163

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488147

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.	
									Limits	RER
Radium-226	11.3	9.960		1.26	1.00	0.299	pCi/L	88	75 - 125	

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	82.7		40 - 110

Lab Sample ID: 500-190086-T-1-B MS
Matrix: Water
Analysis Batch: 491163

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 488147

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.	
											Limits	RER
Radium-226	1.98		11.3	12.07		1.51	1.00	0.344	pCi/L	89	75 - 138	

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	67.9		40 - 110

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 500-190086-T-1-C MSD
Matrix: Water
Analysis Batch: 491163

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 488147

Analyte	Sample	Sample	Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec.	RER	RER
	Result	Qual	Added	Result	Qual	Uncert. (2σ+/-)					Limits		Limit
Radium-226	1.98		11.4	11.64		1.39	1.00	0.230	pCi/L	85	75 - 138	0.15	1
Carrier	MSD	MSD	Limits										
Ba Carrier	90.0		40 - 110										

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-487746/1-A
Matrix: Water
Analysis Batch: 490995

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487746

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1378	U	0.269	0.269	1.00	0.459	pCi/L	11/02/20 16:55	12/07/20 13:13	1
Carrier	MB	MB	Limits							
Ba Carrier	85.0		40 - 110							
Y Carrier	81.9		40 - 110							

Lab Sample ID: LCS 160-487746/2-A
Matrix: Water
Analysis Batch: 490995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487746

Analyte	Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec.
		Result	Qual	Uncert. (2σ+/-)					Limits
Radium-228	7.60	7.774		0.993	1.00	0.453	pCi/L	102	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	80.1		40 - 110						
Y Carrier	84.1		40 - 110						

Lab Sample ID: LCSD 160-487746/3-A
Matrix: Water
Analysis Batch: 490995

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 487746

Analyte	Spike	LCSD	LCSD	Total	RL	MDC	Unit	%Rec	%Rec.	RER	RER
		Result	Qual	Uncert. (2σ+/-)					Limits	Limit	
Radium-228	7.60	7.189		0.927	1.00	0.464	pCi/L	95	75 - 125	0.30	1
Carrier	LCSD	LCSD	Limits								
Ba Carrier	86.5		40 - 110								
Y Carrier	82.2		40 - 110								

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

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

Lab Sample ID: MB 160-487781/23-A
Matrix: Water
Analysis Batch: 490939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487781

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.08991	U	0.523	0.523	1.00	0.955	pCi/L	11/03/20 09:59	12/04/20 11:52	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	78.5		40 - 110				11/03/20 09:59		12/04/20 11:52	1
Y Carrier	57.9		40 - 110				11/03/20 09:59		12/04/20 11:52	1

Lab Sample ID: LCS 160-487781/1-A
Matrix: Water
Analysis Batch: 490965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487781

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec.	Limits
				Uncert. (2σ+/-)					Limits	
Radium-228	10.1	8.498		1.16	1.00	0.687	pCi/L	84	75 - 125	
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	77.6		40 - 110							
Y Carrier	87.9		40 - 110							

Lab Sample ID: LCSD 160-487781/2-A
Matrix: Water
Analysis Batch: 490965

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 487781

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec.	RER	Limit
				Uncert. (2σ+/-)					Limits		
Radium-228	10.1	8.931		1.30	1.00	0.818	pCi/L	88	75 - 125	0.18	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	70.9		40 - 110								
Y Carrier	74.4		40 - 110								

Lab Sample ID: MB 160-488148/24-A
Matrix: Water
Analysis Batch: 490978

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 488148

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.09877	U	0.205	0.205	1.00	0.391	pCi/L	11/04/20 08:49	12/07/20 13:33	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110				11/04/20 08:49		12/07/20 13:33	1
Y Carrier	87.5		40 - 110				11/04/20 08:49		12/07/20 13:33	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

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

Lab Sample ID: LCS 160-488148/1-A
Matrix: Water
Analysis Batch: 490989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488148

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	7.60	6.475		0.860	1.00	0.409	pCi/L	85	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	82.7		40 - 110							
Y Carrier	84.1		40 - 110							

Lab Sample ID: 500-190086-T-1-E MS
Matrix: Water
Analysis Batch: 490978

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 488148

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
											45	150
Radium-228	1.33		7.60	9.149		1.18	1.00	0.523	pCi/L	103	45 - 150	
MS MS												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	67.9		40 - 110									
Y Carrier	84.1		40 - 110									

Lab Sample ID: 500-190086-T-1-F MSD
Matrix: Water
Analysis Batch: 490978

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 488148

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	Limit
											45	150	0.67	1
Radium-228	1.33		7.60	7.718		0.964	1.00	0.466	pCi/L	84	45 - 150	0.67	1	
MSD MSD														
Carrier	%Yield	Qualifier	Limits											
Ba Carrier	90.0		40 - 110											
Y Carrier	89.0		40 - 110											

Lab Sample ID: MB 160-491267/5-A
Matrix: Water
Analysis Batch: 492901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491267

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								12/09/20 08:22	08:22	12/23/20 08:31	08:31	1
Radium-228	-0.3333	U	0.288	0.289	1.00	0.608	pCi/L	12/09/20 08:22	08:22	12/23/20 08:31	08:31	1
MB MB												
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac						
Ba Carrier	77.9		40 - 110	12/09/20 08:22	12/23/20 08:31	1						
Y Carrier	71.4		40 - 110	12/09/20 08:22	12/23/20 08:31	1						

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

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

Lab Sample ID: LCS 160-491267/1-A
Matrix: Water
Analysis Batch: 492901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491267

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	10.1	9.481		1.24	1.00	0.606	pCi/L	94	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	81.9		40 - 110
Y Carrier	83.7		40 - 110

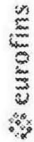
Lab Sample ID: LCSD 160-491267/2-A
Matrix: Water
Analysis Batch: 492901

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 491267

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	10.1	8.975		1.17	1.00	0.550	pCi/L	89	75 - 125	0.21	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	101		40 - 110
Y Carrier	70.7		40 - 110

3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671



Environmental Testing
America

Chain of Custody Record

Client Information		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact: Lauren Parker Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283(Tel) Email: laparker@southernco.com Project Name: Plant Watson Site:		Whitmire, Cheyenne R Cheyenne, Whitmire@Eurofinset.com		400-95134-34480.1 Page 1 of 2 Job #: 1915		400-194965 COC	
Sample Identification		Analysis Requested		Special Instructions/Note:		Preservation Codes:	
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil)	Field Sampling - Field Sampling Ph	2320B - Total, Carb & Bicarbonate Alkalinity	FF 2320B - Total, Carb & Bicarbonate Alkalinity
SW-1-1ft	10-26-20	1612	G	Water	X	X	X
SW-1-1ft - FF		1632		Water	X	X	X
SW-1-7ft		1645		Water	X	X	X
SW-1-7ft - FF		1652		Water	X	X	X
SW-2-1ft		1515		Water	X	X	X
SW-2-1ft - FF		1530		Water	X	X	X
SW-2-7ft		1545		Water	X	X	X
SW-2-7ft - FF		1555		Water	X	X	X
SW-3-1ft		0814		Water	X	X	X
SW-3-1ft - FF		0824		Water	X	X	X
SW-3-4ft		0851		Water	X	X	X

Special Instructions/Note:

400-194965 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:		Method of Shipment:	
Relinquished by: <i>F. W. W.</i>		Date/Time: 10-27-20 0835	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:	

Relinquished by: *Kathleen Owen* Date/Time: 10-27-20 835 Company: *ETA*

Relinquished by: Date/Time: Company:

Relinquished by: Date/Time: Company:

Cooling Temperature(s) 25 and Other Remarks:
 2.7, 2.4, 3.1, 6.0, 3.8, 1.6, 4.3, 4.4
 0-2, 14, 9, 0.5, 18.9



Chain of Custody Record

Client Information
 Client Contact: Lauren Parker
 Company: Southern Company
 Address: 3535 Colonnade Parkway Bin S 530 EC
 City: Birmingham
 State, Zip: AL, 35243
 Phone: 205-992-6283(Tel)
 Email: laparker@southernco.com
 Project Name: Plant Watson
 Site:
 Sampler: *Side Agency Site / Col for 10/20/20* Lab PM: Whitmore, Chyenne R
 Phone: *850-336-0192* E-Mail: Chyenne.Whitmore@Eurofins.com

COC No: 400-95134-34480.1
 Page: *1 of 5*
 Job #: *185*

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Sewage, Oil)	Analysis Requested												Special Instructions/Note:
					Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	4500 F-C-Fluoride, SM4500 Cl-E-Chloride, SM4500 SO4 F-Sulfate, 2540C - TDS	6020 Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, 7470A-Mercury, SM2340B IC/PMS - Total Hardness (as CaCO3)	9315 Ra226 - Radium 226, 9320 Ra228 - Radium 228	Ra226Ra228 GFC - Radium 226 + Radium 228	2320B - Total, Carb & Bicarbonate Alkalinity	Field Sampling - Field Sampling Ph	SM4500 SO4 E-Sulfate, FF 2540C - TDS	7470A-Mercury, FF SM2340B IC/PMS - Total Hardness (as CaCO3)	FF 9315 Ra226 - Radium 226, FF 9320 Ra228 - Radium 228	FF Ra226Ra228 GFC - Radium 226 + Radium 228	
SW-3-4ft - FF	10-26-20	0901	G	Water	X	X	X	X	X	X	X	X	X	X	X		
SW-4-1.5ft		1205		Water	X	X	X	X	X	X	X	X	X	X	X		
SW-4-1.5ft - FF		1215		Water	X	X	X	X	X	X	X	X	X	X	X		
SW-5-1ft		0835		Water	X	X	X	X	X	X	X	X	X	X	X		
SW-5-1ft - FF		0905		Water	X	X	X	X	X	X	X	X	X	X	X		
SW-5-13ft		0925		Water	X	X	X	X	X	X	X	X	X	X	X		
SW-5-13ft - FF		0945		Water	X	X	X	X	X	X	X	X	X	X	X		
SW-6-1ft		1010		Water	X	X	X	X	X	X	X	X	X	X	X		
SW-6-1ft - FF		1020		Water	X	X	X	X	X	X	X	X	X	X	X		
SW-6-9.5ft		1030		Water	X	X	X	X	X	X	X	X	X	X	X		
SW-6-9.5ft - FF		1040		Water	X	X	X	X	X	X	X	X	X	X	X		

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: _____ Time: _____

Relinquished by: *mw* Date/Time: *10-27-20 0635* Company: *ROH*

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No **Custody Seal No.:** _____

Special 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: _____ Date/Time: *10-27-20 835* Company: *ETA*

Received by: *Kathy Rowen* Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record

Client Information Client Contact: Lauren Parker Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283(Tel) Email: laparker@southernco.com Project Name: Plant Watson Site:		Lab PM: Whitmire, Cheryenne R E-Mail: Cheryenne.Whitmire@Eurofinset.com Carrier Tracking No(s): COC No: 400-95134-34480.1 Page: 1 of 2 Job #: 3015			
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 40001674 SSOW#:		Analysis Requested 4500 F-C-Fluoride, SM4500 Cl-E-Chloride, SM4500 SO4 F-Perform MS/MSD (Yes or No) 6020 Sb, As, Ba, Be, Ca, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, 7470A-Mercury, SM2340B IC/PMS - Total Hardness (as CaCO3) 9315 Ra226 - Radium 226, 9320 Ra228 - Radium 228, Ra226Ra228 GFPC - Radium 226 + Radium 228 2320B - Total Carb & Bicarbonate Alkalinity Fieldsampling - Field Sampling Ph FF 4500, F-C-Fluoride, FF SM4500 Cl-E-Chloride, FF SM4500 SO4 E-Sulfate, FF 2540C - TDS FF 6020-Sb, As, Ba, Be, Ca, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, FF 7470A-Mercury, FF SM2340B IC/PMS - Total Hardness (as CaCO3) 9315 Ra226 - Radium 226, 9320 Ra228 - Radium 228, Ra226Ra228 GFPC - Radium 226 + Radium 228 FF 2320B - Total Carb & Bicarbonate Alkalinity Total Number of Containers		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 - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification SW-9-1ft SW-9-1ft - FF SW-9-4ft SW-9-4ft - FF SW-10-2ft SW-10-2ft - FF SW-11-1ft SW-11-1ft - FF SW-12-1ft SW-12-1ft - FF SW-13-1ft		Special Instructions/Note: Sample Date: 10-26-20 Sample Time: 1110, 1120, 1130, 1140, 1200, 1210, 1300, 1310, 1315, 1325, 1340 Matrix (Water, Solid, Sewage, Oil, Tissue, Air) Water, Water, Water, Water, Water, Water, Water, Water, Water, Water			
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			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date/Time: 10-27-20 0835 Date/Time: 10-27-20 835 Date/Time:			
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:			



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-194965-2

Login Number: 194965

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Whitley, Adrian

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7, 2.4, 3.1, 6.0, 3.8, 1.6, 4.3, 4.4, 0.2, 4.5, 0.5°C IR9
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	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-194965-2

Login Number: 194965

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/28/20 09:04 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-21
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-21
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-21

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	
400-194965-1	SW-1-1FT	77.7	
400-194965-3	SW-1-7FT	72.7	
400-194965-5	SW-2-1FT	61.9	
400-194965-7	SW-2-7FT	71.6	
400-194965-9	SW-3-1FT	75.4	
400-194965-11	SW-3-4FT	82.1	
400-194965-13	SW-4-1.5FT	31.5 X	
400-194965-15	SW-5-1FT	64.5	
400-194965-17	SW-5-13FT	26.7 X	
400-194965-19	SW-6-1FT	65.2	
400-194965-21	SW-6-9.5FT	66.4	
400-194965-23	SW-9-1FT	70.9	
400-194965-25	SW-9-4FT	66.4	
400-194965-27	SW-10-2FT	68.5	
400-194965-29	SW-11-1FT	79.4	
400-194965-31	SW-12-1FT	74.2	
400-194965-33	SW-13-1FT	77.9	
400-194965-35	SW-14-1.5FT	68.5	
400-194965-37	SW-15-1.5FT	79.4	
400-194965-39	SW-16-1.5FT	66.7	
400-194965-41	SW-17-1FT	72.4	
400-194965-43	EB-01	85.8	
400-194965-44	EB-02	81.5	
400-194965-45	DUP-01	79.1	
400-194965-47	DUP-02	77.3	
400-194965-49	DUP-03	79.1	
500-190086-T-1-B MS	Matrix Spike	67.9	
500-190086-T-1-C MSD	Matrix Spike Duplicate	90.0	
LCS 160-487741/2-A	Lab Control Sample	80.1	
LCS 160-487779/1-A	Lab Control Sample	77.6	
LCS 160-488147/1-A	Lab Control Sample	82.7	
LCSD 160-487741/3-A	Lab Control Sample Dup	86.5	
LCSD 160-487779/2-A	Lab Control Sample Dup	70.9	
MB 160-487741/1-A	Method Blank	85.0	
MB 160-487779/23-A	Method Blank	78.5	
MB 160-488147/24-A	Method Blank	90.0	

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Dissolved

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	
400-194965-2	SW-1-1FT-FF	78.0	
400-194965-4	SW-1-7FT-FF	75.1	
400-194965-6	SW-2-1FT-FF	71.3	
400-194965-8	SW-2-7FT-FF	84.5	

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Matrix: Water

Prep Type: Dissolved

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y
400-194965-10	SW-3-1FT-FF	71.3	
400-194965-12	SW-3-4FT-FF	74.2	
400-194965-14	SW-4-1.5FT-FF	73.6	
400-194965-16	SW-5-1FT-FF	72.4	
400-194965-18	SW-5-13FT-FF	14.5 X	
400-194965-20	SW-6-1FT-FF	75.5	
400-194965-22	SW-6-9.5FT-FF	68.8	
400-194965-24	SW-9-1FT-FF	74.8	
400-194965-26	SW-9-4FT-FF	71.2	
400-194965-28	SW-10-2FT-FF	73.6	
400-194965-30	SW-11-1FT-FF	77.6	
400-194965-32	SW-12-1FT-FF	74.2	
400-194965-34	SW-13-1FT-FF	71.5	
400-194965-36	SW-14-1.5FT-FF	74.8	
400-194965-38	SW-15-1.5FT-FF	73.6	
400-194965-40	SW-16-1.5FT-FF	67.6	
400-194965-42	SW-17-1FT-FF	72.7	
400-194965-46	DUP-01-FF	79.7	
400-194965-48	DUP-02-FF	72.1	
400-194965-50	DUP-03-FF	73.6	

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
400-194965-1	SW-1-1FT	77.7	86.4
400-194965-3	SW-1-7FT	72.7	80.7
400-194965-5	SW-2-1FT	61.9	79.3
400-194965-7	SW-2-7FT	71.6	77.0
400-194965-9	SW-3-1FT	75.4	81.5
400-194965-11	SW-3-4FT	82.1	74.8
400-194965-13	SW-4-1.5FT	31.5 X	74.4
400-194965-15	SW-5-1FT	64.5	89.7
400-194965-17	SW-5-13FT	26.7 X	79.3
400-194965-19	SW-6-1FT	65.2	85.6
400-194965-21	SW-6-9.5FT	66.4	95.3
400-194965-23	SW-9-1FT	70.9	101
400-194965-25	SW-9-4FT	85.4	68.8
400-194965-27	SW-10-2FT	68.5	49.3
400-194965-29	SW-11-1FT	79.4	87.9
400-194965-31	SW-12-1FT	74.2	63.6
400-194965-33	SW-13-1FT	77.9	71.8
400-194965-35	SW-14-1.5FT	68.5	78.9
400-194965-37	SW-15-1.5FT	79.4	76.3
400-194965-39	SW-16-1.5FT	66.7	77.8
400-194965-41	SW-17-1FT	72.4	77.4

Eurofins TestAmerica, Pensacola

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
400-194965-43	EB-01	85.8	80.0
400-194965-44	EB-02	81.5	78.5
400-194965-45	DUP-01	79.1	77.0
400-194965-47	DUP-02	77.3	85.2
400-194965-49	DUP-03	79.1	80.0
500-190086-T-1-E MS	Matrix Spike	67.9	84.1
500-190086-T-1-F MSD	Matrix Spike Duplicate	90.0	89.0
LCS 160-487746/2-A	Lab Control Sample	80.1	84.1
LCS 160-487781/1-A	Lab Control Sample	77.6	87.9
LCS 160-488148/1-A	Lab Control Sample	82.7	84.1
LCS 160-491267/1-A	Lab Control Sample	81.9	83.7
LCSD 160-487746/3-A	Lab Control Sample Dup	86.5	82.2
LCSD 160-487781/2-A	Lab Control Sample Dup	70.9	74.4
LCSD 160-491267/2-A	Lab Control Sample Dup	101	70.7
MB 160-487746/1-A	Method Blank	85.0	81.9
MB 160-487781/23-A	Method Blank	78.5	57.9
MB 160-488148/24-A	Method Blank	90.0	87.5
MB 160-491267/5-A	Method Blank	77.9	71.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Dissolved

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
400-194965-2	SW-1-1FT-FF	78.0	83.7
400-194965-4	SW-1-7FT-FF	75.1	72.9
400-194965-6	SW-2-1FT-FF	71.3	84.5
400-194965-8	SW-2-7FT-FF	84.5	68.4
400-194965-10	SW-3-1FT-FF	71.3	83.7
400-194965-12	SW-3-4FT-FF	74.2	86.4
400-194965-14	SW-4-1.5FT-FF	73.6	81.9
400-194965-16	SW-5-1FT-FF	72.4	80.7
400-194965-18	SW-5-13FT-FF	14.5 X	96.1
400-194965-20	SW-6-1FT-FF	75.5	96.8
400-194965-22	SW-6-9.5FT-FF	68.8	87.5
400-194965-24	SW-9-1FT-FF	74.8	81.1
400-194965-26	SW-9-4FT-FF	71.2	75.1
400-194965-28	SW-10-2FT-FF	94.0	75.9
400-194965-30	SW-11-1FT-FF	77.6	79.6
400-194965-32	SW-12-1FT-FF	74.2	78.9
400-194965-34	SW-13-1FT-FF	71.5	82.2
400-194965-36	SW-14-1.5FT-FF	74.8	74.8
400-194965-38	SW-15-1.5FT-FF	73.6	79.3
400-194965-40	SW-16-1.5FT-FF	67.6	78.5
400-194965-42	SW-17-1FT-FF	72.7	78.1
400-194965-46	DUP-01-FF	79.7	75.9

Eurofins TestAmerica, Pensacola

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-194965-2

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

Matrix: Water

Prep Type: Dissolved

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba	Y	Percent Yield (Acceptance Limits)			
		(40-110)	(40-110)				
400-194965-48	DUP-02-FF	72.1	80.0				
400-194965-50	DUP-03-FF	73.6	78.5				

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Product Name: Low-Flow System

Date: 2020-11-09 09:41:45

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Watson CCR
Site Name Plant Watson CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 625126
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 46.6 ft

Well Information:

Well ID APMW-11
Well diameter 2 in
Well Total Depth 51.6 ft
Screen Length 10 ft
Depth to Water 18.52 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	09:25:54	300.08	24.29	6.15	121.36	0.84	18.58	0.25	45.00
Last 5	09:30:54	600.02	24.33	6.18	120.22	0.65	18.58	0.23	39.35
Last 5	09:35:54	900.04	24.28	6.17	119.63	0.56	18.58	0.16	37.12
Last 5	09:40:54	1200.03	24.27	6.21	119.34	0.49	18.58	0.14	32.61
Last 5									
Variance 0			0.04	0.03	-1.14			-0.03	-5.65
Variance 1			-0.05	-0.01	-0.59			-0.07	-2.23
Variance 2			-0.01	0.04	-0.29			-0.02	-4.51

Notes

Sample@0941, cloudy 73

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-09 15:32:29

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Watson CCR
Site Name Plant Watson CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 625126
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 50 ft

Pump placement from TOC 37.8 ft

Well Information:

Well ID APMW-8
Well diameter 2 in
Well Total Depth 42.8 ft
Screen Length 10 ft
Depth to Water 20.68 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	15:10:44	1500.02	24.04	6.64	12333.08	0.67	20.70	0.07	-20.24
Last 5	15:15:44	1800.03	23.95	6.68	12445.61	0.62	20.70	0.07	-29.38
Last 5	15:20:44	2100.02	23.95	6.71	12519.27	0.78	20.70	0.06	-35.35
Last 5	15:25:44	2400.02	24.00	6.73	12543.14	0.64	20.70	0.06	-39.91
Last 5	15:30:44	2700.03	23.87	6.74	12545.38	0.37	20.70	0.06	-43.54
Variance 0			0.00	0.03	73.66			-0.00	-5.97
Variance 1			0.04	0.02	23.86			-0.00	-4.56
Variance 2			-0.13	0.01	2.25			-0.00	-3.63

Notes

Sample@1532, Sunny 83

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-10 07:42:40

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Watson CCR
Site Name Plant Watson CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 625126
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 95 ft

Pump placement from TOC 90 ft

Well Information:

Well ID APMW 8D
Well diameter 2 in
Well Total Depth 92.5 ft
Screen Length 10 ft
Depth to Water 19.05 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.9040251 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 14 in
Total Volume Pumped 14 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	07:21:03	900.03	23.66	6.99	326.64	2.10	20.18	0.12	-66.37
Last 5	07:26:03	1200.02	23.47	7.01	327.65	1.98	20.18	0.11	-74.85
Last 5	07:31:03	1500.03	23.41	7.03	327.83	1.90	20.18	0.10	-82.00
Last 5	07:36:04	1801.02	23.51	7.04	326.91	1.58	20.18	0.10	-86.27
Last 5	07:41:04	2101.03	23.37	7.06	326.97	1.39	20.18	0.10	-90.76
Variance 0			-0.06	0.03	0.18			-0.01	-7.15
Variance 1			0.10	0.01	-0.92			-0.00	-4.27
Variance 2			-0.14	0.02	0.06			-0.00	-4.49

Notes

Sample@0742, DUP-05@0642, cloudy 72

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-10 08:38:07

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Watson CCR
Site Name Plant Watson CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 625126
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 40 ft

Pump placement from TOC 32.4 ft

Well Information:

Well ID APMW-7
Well diameter 2 in
Well Total Depth 37.4 ft
Screen Length 10 ft
Depth to Water 11.38 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.07 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	08:21:38	300.03	23.68	6.52	12907.64	2.18	11.58	0.10	-72.23
Last 5	08:26:38	600.02	23.56	6.38	14819.21	1.15	11.63	0.06	-89.14
Last 5	08:31:38	900.03	23.50	6.38	15149.52	0.82	11.69	0.06	-87.95
Last 5	08:36:38	1200.03	23.40	6.37	15324.92	0.79	11.70	0.05	-85.58
Last 5									
Variance 0			-0.12	-0.13	1911.57			-0.04	-16.91
Variance 1			-0.06	-0.01	330.31			-0.00	1.18
Variance 2			-0.10	-0.00	175.40			-0.00	2.37

Notes

Sample@0837, EB-02@0845, Cloudy 74

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-03 14:36:25

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 30 ft

Pump placement from TOC 23 ft

Well Information:

Well ID APMW-15
Well diameter 2 in
Well Total Depth 25.5 ft
Screen Length 5 ft
Depth to Water 3.00 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.36 in
Total Volume Pumped 62 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	14:13:31	8110.03	20.85	6.50	12909.62	4.33	3.03	0.10	-472.35
Last 5	14:18:31	8410.03	20.87	6.50	13000.54	3.89	3.03	0.10	-469.47
Last 5	14:23:31	8710.03	20.77	6.50	13114.64	1.88	3.03	0.10	-466.38
Last 5	14:28:32	9011.03	20.85	6.51	13179.88	1.65	3.03	0.10	-462.65
Last 5	14:33:35	9314.03	20.72	6.51	13283.24	1.51	3.03	0.10	-458.88
Variance 0			-0.10	0.00	114.10			0.00	3.08
Variance 1			0.08	0.00	65.24			-0.00	3.74
Variance 2			-0.13	0.00	103.36			0.00	3.76

Notes

Sample time @ 1440. Sunny 78. DUP-01@ fake time 1340. EB-01@1155.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-04 08:31:02

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 30 ft

Pump placement from TOC 22 ft

Well Information:

Well ID APMW-16
Well diameter 2 in
Well Total Depth 24.5 ft
Screen Length 10 ft
Depth to Water 2.57 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.6 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	08:05:57	2403.03	17.27	6.57	11008.49	2.75	2.62	0.15	-369.68
Last 5	08:10:57	2703.03	17.27	6.57	11297.26	2.30	2.62	0.14	-368.97
Last 5	08:15:57	3003.03	17.32	6.58	11624.00	1.89	2.62	0.14	-368.30
Last 5	08:20:57	3303.03	17.36	6.58	11886.86	1.62	2.62	0.14	-367.54
Last 5	08:25:57	3603.03	17.45	6.58	12212.88	1.51	2.62	0.13	-366.95
Variance 0			0.04	0.00	326.74			-0.00	0.67
Variance 1			0.04	0.00	262.86			-0.00	0.77
Variance 2			0.10	0.00	326.02			-0.00	0.59

Notes

Sample time @ 0830. Sunny 60. DUP-02@ fake time 0730.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-04 09:50:34

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 35 ft

Pump placement from TOC 19 ft

Well Information:

Well ID APMW-13
Well diameter 2 in
Well Total Depth 21.5 ft
Screen Length 5 ft
Depth to Water 3.65 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.16 in
Total Volume Pumped 14 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	09:27:02	900.03	20.42	6.01	6704.93	2.20	3.83	0.12	-134.90
Last 5	09:32:02	1200.03	20.43	6.01	6878.86	1.67	3.83	0.11	-137.81
Last 5	09:37:02	1500.03	20.48	6.01	7133.22	1.45	3.83	0.10	-138.26
Last 5	09:42:02	1800.03	20.57	6.01	7311.46	1.10	3.83	0.10	-138.02
Last 5	09:47:02	2100.03	20.61	6.01	7399.67	0.89	3.83	0.10	-137.71
Variance 0			0.05	0.00	254.35			-0.00	-0.45
Variance 1			0.09	0.00	178.24			-0.00	0.24
Variance 2			0.04	0.00	88.21			-0.00	0.30

Notes

Sample time @ 0950. Sunny 75.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-04 11:28:52

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 30 ft

Pump placement from TOC 19 ft

Well Information:

Well ID APMW-14
Well diameter 2 in
Well Total Depth 21.5 ft
Screen Length 5 ft
Depth to Water 3.35 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 28 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	11:04:41	3005.03	22.00	6.04	9545.77	2.80	3.44	0.10	-85.69
Last 5	11:09:41	3305.03	22.01	6.04	9525.93	2.26	3.45	0.09	-86.57
Last 5	11:14:41	3605.03	22.08	6.04	9521.17	1.98	3.45	0.10	-88.53
Last 5	11:19:41	3905.03	22.13	6.04	9506.55	1.92	3.45	0.09	-88.63
Last 5	11:24:47	4211.03	22.15	6.03	9479.15	1.76	3.45	0.09	-90.43
Variance 0			0.06	-0.00	-4.76			0.00	-1.96
Variance 1			0.05	0.00	-14.61			-0.00	-0.10
Variance 2			0.02	-0.00	-27.40			-0.00	-1.80

Notes

Sample time @ 1130. Sunny 80.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-04 15:03:43

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 40 ft

Pump placement from TOC 36.1 ft

Well Information:

Well ID APMW-1R
Well diameter 2 in
Well Total Depth 38.6 ft
Screen Length 5 ft
Depth to Water 24.75 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.84 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	14:46:06	300.04	21.41	6.55	6977.45	0.52	25.32	0.15	-221.13
Last 5	14:51:06	600.03	21.34	6.50	7030.37	0.40	25.32	0.13	-231.47
Last 5	14:56:06	900.03	21.28	6.47	7062.89	0.31	25.32	0.12	-237.23
Last 5	15:01:06	1200.04	21.25	6.45	7077.16	0.25	25.32	0.11	-241.03
Last 5									
Variance 0			-0.07	-0.04	52.92			-0.02	-10.34
Variance 1			-0.06	-0.03	32.53			-0.01	-5.76
Variance 2			-0.03	-0.02	14.27			-0.01	-3.80

Notes

Sample time @ 1505. Sunny 68. FB-01@ 1510.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-05 10:00:27

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 170 ft

Pump placement from TOC 157.8 ft

Well Information:

Well ID APMW-2D
Well diameter 2 in
Well Total Depth 162.8 ft
Screen Length 10 ft
Depth to Water 15.20 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.8487819 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 74 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	09:36:49	9922.04	20.50	7.85	262.40	2.04	15.45	0.09	-237.88
Last 5	09:41:49	10222.04	20.53	7.83	259.59	1.94	15.45	0.09	-236.11
Last 5	09:46:49	10522.04	20.52	7.81	257.67	1.85	15.45	0.09	-235.30
Last 5	09:51:49	10822.04	20.53	7.80	256.49	1.76	15.45	0.09	-235.31
Last 5	09:56:49	11122.04	20.57	7.79	254.67	1.72	15.45	0.08	-233.74
Variance 0			-0.02	-0.02	-1.91			0.00	0.81
Variance 1			0.01	-0.01	-1.18			-0.00	-0.01
Variance 2			0.04	-0.01	-1.82			-0.00	1.57

Notes

Sample time @ 1000. Sunny 65.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-05 10:42:27

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 45 ft

Pump placement from TOC 37.9 ft

Well Information:

Well ID APMW-2
Well diameter 2 in
Well Total Depth 42.9 ft
Screen Length 10 ft
Depth to Water 22.97 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.680854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.72 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	10:25:19	300.05	21.11	5.84	7498.08	1.10	23.03	0.36	-58.11
Last 5	10:30:19	600.04	21.05	5.89	7553.14	0.93	23.03	0.22	-72.59
Last 5	10:35:19	900.04	21.04	5.91	7615.41	0.89	23.03	0.19	-77.73
Last 5	10:40:19	1200.04	21.13	5.92	7639.56	0.73	23.03	0.18	-78.64
Last 5									
Variance 0			-0.06	0.05	55.06			-0.14	-14.47
Variance 1			-0.01	0.02	62.28			-0.03	-5.14
Variance 2			0.10	0.01	24.14			-0.01	-0.91

Notes

Sample time @ 1045. Sunny 70. DUP-03@ fake time 0945.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-05 11:53:06

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 40 ft

Pump placement from TOC 31.6 ft

Well Information:

Well ID APMW-3
Well diameter 2 in
Well Total Depth 36.6 ft
Screen Length 10 ft
Depth to Water 8.60 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.6585369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.48 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	11:36:24	300.04	22.19	6.52	29921.49	1.78	8.64	0.19	-62.75
Last 5	11:41:24	600.04	22.12	6.55	29375.84	1.12	8.64	0.15	-72.32
Last 5	11:46:24	900.04	22.08	6.57	29000.18	0.80	8.64	0.15	-73.26
Last 5	11:51:24	1200.04	22.05	6.58	28782.12	0.56	8.64	0.15	-74.25
Last 5									
Variance 0			-0.07	0.03	-545.65			-0.04	-9.57
Variance 1			-0.03	0.02	-375.67			-0.00	-0.95
Variance 2			-0.04	0.02	-218.05			-0.00	-0.99

Notes

Sample time @ 1200. Sunny 70.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-09 11:14:06

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 100 ft

Pump placement from TOC 90.6 ft

Well Information:

Well ID APMW-3D
Well diameter 2 in
Well Total Depth 93.1 ft
Screen Length 5 ft
Depth to Water 6.43 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.5363423 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 36.48 in
Total Volume Pumped 30 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	10:47:12	3302.04	20.84	6.89	348.29	1.04	9.47	0.15	-92.56
Last 5	10:52:12	3602.04	20.88	6.88	335.83	1.08	9.47	0.15	-89.51
Last 5	10:57:16	3906.05	20.88	6.87	304.65	1.08	9.47	0.15	-84.71
Last 5	11:02:16	4206.04	20.92	6.87	307.53	1.05	9.47	0.14	-84.93
Last 5	11:07:16	4506.04	20.97	6.86	314.40	1.06	9.47	0.14	-83.93
Variance 0			-0.00	-0.01	-31.18			-0.00	4.80
Variance 1			0.05	-0.00	2.88			-0.00	-0.22
Variance 2			0.05	-0.01	6.87			-0.00	1.00

Notes

Sample time @ 1115. Sunny 80. DUP-04@ fake time 1015.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-09 12:11:30

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 100 ft

Pump placement from TOC 95.3 ft

Well Information:

Well ID APMW-4D
Well diameter 2 in
Well Total Depth 100.3 ft
Screen Length 10 ft
Depth to Water 10.48 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.5363423 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.12 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	11:54:15	300.05	21.54	6.86	24420.83	1.70	10.74	0.21	-89.78
Last 5	11:59:15	600.05	21.27	6.88	24473.85	1.38	10.74	0.17	-76.43
Last 5	12:04:15	900.05	21.19	6.88	24533.74	1.40	10.74	0.15	-69.28
Last 5	12:09:15	1200.04	21.32	6.89	24495.29	1.62	10.74	0.14	-67.56
Last 5									
Variance 0			-0.27	0.01	53.02			-0.04	13.35
Variance 1			-0.08	0.01	59.90			-0.02	7.15
Variance 2			0.13	0.00	-38.45			-0.01	1.71

Notes

Sample time @ 1215. Sunny 82.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-09 13:00:37

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 45 ft

Pump placement from TOC 32.05 ft

Well Information:

Well ID APMW-4
Well diameter 2 in
Well Total Depth 37.05 ft
Screen Length 10 ft
Depth to Water 12.10 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.680854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	12:37:30	300.05	23.07	6.42	9926.51	2.08	12.20	0.18	-25.93
Last 5	12:42:30	600.05	22.85	6.40	9917.01	1.20	12.20	0.16	-70.14
Last 5	12:47:30	900.04	22.98	6.39	9904.16	1.06	12.20	0.15	-84.79
Last 5	12:52:30	1200.05	22.90	6.38	9880.43	0.92	12.20	0.15	-86.94
Last 5	12:57:30	1500.04	22.93	6.37	9880.43	0.65	12.20	0.16	-86.51
Variance 0			0.13	-0.02	-12.85			-0.00	-14.65
Variance 1			-0.08	-0.01	-23.73			-0.00	-2.16
Variance 2			0.02	-0.01	-0.00			0.00	0.43

Notes

Sample time @ 1305. Sunny 85. FB-02@ 1310.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-09 14:06:57

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 45 ft

Pump placement from TOC 31.6 ft

Well Information:

Well ID APMW-5
Well diameter 2 in
Well Total Depth 36.6 ft
Screen Length 10 ft
Depth to Water 7.32 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.680854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.48 in
Total Volume Pumped 14 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	13:44:25	900.05	21.82	6.37	24465.11	3.90	7.36	0.23	27.29
Last 5	13:49:25	1200.05	21.71	6.37	24521.34	3.28	7.36	0.26	20.89
Last 5	13:54:25	1500.05	21.61	6.37	24559.10	2.70	7.36	0.20	15.40
Last 5	13:59:25	1800.05	21.51	6.37	24575.41	1.32	7.36	0.20	10.40
Last 5	14:04:25	2100.05	21.51	6.37	24590.06	0.96	7.36	0.20	6.12
Variance 0			-0.10	0.00	37.76			-0.05	-5.50
Variance 1			-0.11	0.00	16.32			-0.00	-5.00
Variance 2			-0.00	-0.00	14.64			-0.00	-4.27

Notes

Sample time @ 1410. Sunny 85.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-09 16:49:34

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 115 ft

Pump placement from TOC 108.5 ft

Well Information:

Well ID APMW-5D
Well diameter 2 in
Well Total Depth 111.0 ft
Screen Length 5 ft
Depth to Water 9.32 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.6032937 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 47.4 in
Total Volume Pumped 52 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	16:20:56	6635.05	20.26	6.73	198.46	34.50	13.27	0.13	-54.59
Last 5	16:25:56	6935.05	20.25	6.73	197.65	34.20	13.27	0.13	-53.40
Last 5	16:30:56	7235.05	20.21	6.73	198.23	34.20	13.27	0.13	-51.79
Last 5	16:35:56	7535.05	20.17	6.72	197.83	34.40	13.27	0.13	-51.08
Last 5	16:40:58	7837.05	20.15	6.71	196.96	34.60	13.27	0.13	-49.59
Variance 0			-0.04	-0.01	0.58			-0.00	1.61
Variance 1			-0.04	-0.00	-0.41			-0.00	0.71
Variance 2			-0.02	-0.01	-0.87			-0.00	1.49

Notes

Sample time @ 1650. Sunny 80. APMW-5D FF @ 1650.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-20 10:47:17

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 210 ft

Pump placement from TOC 203.5 ft

Well Information:

Well ID APMW-10D
Well diameter 2 in
Well Total Depth 206.4 ft
Screen Length 5 ft
Depth to Water 14.80 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 1.027319 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.44 in
Total Volume Pumped 28 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	10:23:28	3004.03	23.51	8.88	231.12	4.64	15.42	0.19	-128.69
Last 5	10:28:28	3304.02	23.52	8.88	230.51	4.48	15.42	0.19	-124.31
Last 5	10:33:31	3607.02	23.53	8.85	231.59	4.55	15.42	0.18	-128.01
Last 5	10:38:32	3908.02	23.53	8.86	229.86	4.68	15.42	0.18	-131.22
Last 5	10:43:36	4212.02	23.56	8.86	228.78	4.55	15.42	0.17	-134.53
Variance 0			0.01	-0.03	1.08			-0.00	-3.69
Variance 1			0.00	0.01	-1.73			-0.00	-3.21
Variance 2			0.03	-0.00	-1.08			-0.01	-3.31

Notes

Sample time @ 1050. Sunny 75. FB-02@ 1052.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-20 11:35:02

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 35 ft

Pump placement from TOC 27.9 ft

Well Information:

Well ID APMW-10
Well diameter 2 in
Well Total Depth 32.9 ft
Screen Length 10 ft
Depth to Water 20.76 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3762198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.48 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	11:17:09	300.04	23.97	6.73	3326.80	1.24	20.80	0.16	-109.97
Last 5	11:22:09	600.02	23.93	6.80	3405.74	0.70	20.80	0.14	-114.53
Last 5	11:27:09	900.02	23.93	6.90	3521.12	0.58	20.80	0.13	-119.99
Last 5	11:32:09	1200.02	23.92	6.94	3580.98	0.55	20.80	0.13	-121.39
Last 5									
Variance 0			-0.05	0.06	78.94			-0.02	-4.57
Variance 1			0.00	0.10	115.38			-0.00	-5.45
Variance 2			-0.00	0.04	59.86			-0.00	-1.41

Notes

Sample time @ 1135. Sunny 75. DUP-04@ fake time 1035.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-20 12:18:40

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 50 ft

Pump placement from TOC 37.5 ft

Well Information:

Well ID APMW-9
Well diameter 2 in
Well Total Depth 42.5 ft
Screen Length 10 ft
Depth to Water 22.37 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.4431711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.6 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	12:01:52	300.03	22.81	6.22	8558.86	2.38	22.42	0.22	-38.22
Last 5	12:06:52	600.02	22.72	6.22	8565.98	1.50	22.42	0.19	-39.38
Last 5	12:11:52	900.02	22.71	6.23	8589.89	1.22	22.42	0.19	-38.93
Last 5	12:16:52	1200.02	22.66	6.23	8631.50	1.20	22.42	0.19	-38.20
Last 5									
Variance 0			-0.09	0.00	7.12			-0.03	-1.16
Variance 1			-0.01	0.00	23.91			-0.00	0.45
Variance 2			-0.05	0.01	41.62			0.00	0.74

Notes

Sample time @ 1220. Sunny 75.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-20 13:18:54

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 60 ft

Pump placement from TOC 46.85 ft

Well Information:

Well ID APMW-6R
Well diameter 2 in
Well Total Depth 51.85 ft
Screen Length 10 ft
Depth to Water 7.60 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3578054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 34.8 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	12:56:39	600.02	22.44	6.16	10871.62	1.38	10.50	0.14	-72.14
Last 5	13:01:39	900.02	22.56	6.15	11101.19	1.27	10.50	0.13	-71.45
Last 5	13:06:40	1201.02	22.51	6.07	11655.61	1.12	10.50	0.12	-64.96
Last 5	13:11:40	1501.02	22.58	6.09	11864.27	1.03	10.50	0.12	-67.05
Last 5	13:16:40	1801.02	22.44	6.09	11844.15	0.95	10.50	0.11	-65.42
Variance 0			-0.05	-0.08	554.42			-0.01	6.49
Variance 1			0.07	0.01	208.66			-0.00	-2.09
Variance 2			-0.14	0.00	-20.13			-0.00	1.63

Notes

Sample time @ 1320. Sunny 75. EB-02@ 1245.

Grab Samples

Product Name: Low-Flow System

Date: 2020-11-20 14:24:40

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 60 ft

Pump placement from TOC 49.1 ft

Well Information:

Well ID APMW-12
Well diameter 2 in
Well Total Depth 54.1 ft
Screen Length 10 ft
Depth to Water 17.46 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3578054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.72 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	14:07:27	300.02	22.63	6.35	158.18	1.55	17.52	0.16	-31.68
Last 5	14:12:27	600.02	22.56	6.33	160.28	1.28	17.52	0.13	-35.04
Last 5	14:17:27	900.02	22.56	6.31	158.78	1.25	17.52	0.12	-35.83
Last 5	14:22:27	1200.02	22.54	6.31	159.34	1.10	17.52	0.11	-39.37
Last 5									
Variance 0			-0.06	-0.03	2.10			-0.03	-3.36
Variance 1			-0.01	-0.01	-1.50			-0.01	-0.79
Variance 2			-0.02	-0.01	0.55			-0.01	-3.54

Notes

Sample time @ 1430. Sunny 75. EB-03@ 1355.

Grab Samples

2nd
Semi-Annual
Monitoring Event

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-118143-1

Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
3/25/2021 12:53:36 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through
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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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Job ID: 180-118143-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-118143-1**

Comments

No additional comments.

Receipt

The samples were received on 3/10/2021 9:00 AM and 3/11/2021 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 1.6° C, 2.2° C, 2.5° C, 2.5° C, 3.7° C, 3.9° C and 4.1° C.

Receipt Exceptions

The following samples were submitted for analysis; however, they were not listed on the Chain-of-Custody (COC): DUP-02 (180-118244-17), FB-02 (180-118244-18) and EB-02 (180-118244-19)

GC Semi VOA

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

Metals

Method 6020B: The following samples were diluted due to the nature of the sample matrix: APMW-8 (180-118244-1), APMW-6R (180-118244-4), APMW-4D (180-118244-8), APMW-5 (180-118244-9), (180-118244-D-1-C MS ^10), (180-118244-D-1-D MSD ^10), (180-118244-D-1-B PDS ^10) and (180-118244-D-1-B SD ^50). Elevated reporting limits (RLs) are provided.

Method 6020B: The following samples were diluted due to the nature of the sample matrix: APMW-6R (180-118244-4), APMW-3 (180-118244-5), APMW-4D (180-118244-8) and APMW-5 (180-118244-9). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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



Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21
California	State	2891	04-30-21
Connecticut	State	PH-0688	09-30-20 *
Florida	NELAP	E871008	06-30-21
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-21
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	07-31-21
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-21
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-21
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-21
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-21

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



Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-118143-1	APMW-10D	Water	03/08/21 12:32	03/10/21 09:00	
180-118143-2	APMW-10	Water	03/08/21 13:18	03/10/21 09:00	
180-118143-3	APMW-9	Water	03/08/21 14:14	03/10/21 09:00	
180-118143-4	APMW-1R	Water	03/08/21 12:45	03/10/21 09:00	
180-118143-5	APMW-2	Water	03/08/21 13:55	03/10/21 09:00	
180-118143-6	APMW-2D	Water	03/08/21 18:15	03/10/21 09:00	
180-118143-7	FB-01	Water	03/08/21 17:45	03/10/21 09:00	
180-118143-8	EB-01	Water	03/08/21 14:15	03/10/21 09:00	
180-118143-9	DUP-01	Water	03/08/21 11:45	03/10/21 09:00	
180-118143-10	APMW-13	Water	03/08/21 17:00	03/10/21 09:00	
180-118143-11	APMW-14	Water	03/08/21 11:40	03/10/21 09:00	
180-118143-12	APMW-15	Water	03/08/21 14:55	03/10/21 09:00	
180-118143-13	APMW-16	Water	03/08/21 13:30	03/10/21 09:00	
180-118244-1	APMW-8	Water	03/09/21 08:59	03/11/21 08:45	
180-118244-2	APMW-8D	Water	03/09/21 09:40	03/11/21 08:45	
180-118244-3	APMW-7	Water	03/09/21 11:01	03/11/21 08:45	
180-118244-4	APMW-6R	Water	03/09/21 12:08	03/11/21 08:45	
180-118244-5	APMW-3	Water	03/09/21 07:50	03/11/21 08:45	
180-118244-6	APMW-3D	Water	03/09/21 08:40	03/11/21 08:45	
180-118244-7	APMW-4	Water	03/09/21 10:45	03/11/21 08:45	
180-118244-8	APMW-4D	Water	03/09/21 09:45	03/11/21 08:45	
180-118244-9	APMW-5	Water	03/09/21 12:00	03/11/21 08:45	
180-118244-10	APMW-5D	Water	03/09/21 17:35	03/11/21 08:45	
180-118244-11	APMW-6D	Water	03/10/21 07:30	03/11/21 08:45	
180-118244-12	APMW-12	Water	03/10/21 06:58	03/11/21 08:45	
180-118244-13	APMW-11	Water	03/10/21 07:39	03/11/21 08:45	
180-118244-14	DUP-03	Water	03/10/21 06:39	03/11/21 08:45	
180-118244-15	FB-03	Water	03/10/21 07:30	03/11/21 08:45	
180-118244-16	EB-03	Water	03/10/21 06:50	03/11/21 08:45	
180-118244-17	DUP-02	Water	03/09/21 07:40	03/11/21 08:45	
180-118244-18	FB-02	Water	03/09/21 11:50	03/11/21 08:45	
180-118244-19	EB-02	Water	03/09/21 08:08	03/11/21 08:45	

Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

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 PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-10D

Lab Sample ID: 180-118143-1

Date Collected: 03/08/21 12:32

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349528	03/16/21 16:15	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350103	03/20/21 21:26	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 12:48	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	349913	03/18/21 16:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350145	03/20/21 11:28	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349481	03/15/21 15:56	NAF	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10

Lab Sample ID: 180-118143-2

Date Collected: 03/08/21 13:18

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2.5			349528	03/17/21 05:04	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		25			349528	03/17/21 05:21	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350103	03/20/21 21:26	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 13:02	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	349913	03/18/21 16:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350145	03/20/21 11:29	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	349481	03/15/21 15:56	NAF	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-9

Lab Sample ID: 180-118143-3

Date Collected: 03/08/21 14:14

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			349528	03/17/21 05:39	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		100			349528	03/17/21 05:57	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350103	03/20/21 21:26	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 13:05	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	349913	03/18/21 16:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350145	03/20/21 11:30	KHM	TAL PIT
Instrument ID: HGZ										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-9

Lab Sample ID: 180-118143-3

Date Collected: 03/08/21 14:14

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	349481	03/15/21 15:56	NAF	TAL PIT

Client Sample ID: APMW-1R

Lab Sample ID: 180-118143-4

Date Collected: 03/08/21 12:45

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		5			349528	03/16/21 15:04	SAT	TAL PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		50			349528	03/16/21 15:22	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350103	03/20/21 21:26	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			350467	03/23/21 13:27	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	349913	03/18/21 16:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			350145	03/20/21 11:34	KHM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	349481	03/15/21 15:56	NAF	TAL PIT

Client Sample ID: APMW-2

Lab Sample ID: 180-118143-5

Date Collected: 03/08/21 13:55

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		5			349528	03/17/21 03:52	SAT	TAL PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		50			349528	03/17/21 04:10	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350103	03/20/21 21:26	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			350467	03/23/21 13:38	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	349913	03/18/21 16:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			350145	03/20/21 11:35	KHM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	25 mL	100 mL	349481	03/15/21 15:56	NAF	TAL PIT

Client Sample ID: APMW-2D

Lab Sample ID: 180-118143-6

Date Collected: 03/08/21 18:15

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		1			349528	03/16/21 16:33	SAT	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-2D

Lab Sample ID: 180-118143-6

Date Collected: 03/08/21 18:15

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	350103	03/20/21 21:26	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 13:49	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	349913	03/18/21 16:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350145	03/20/21 11:36	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349481	03/15/21 15:56	NAF	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-01

Lab Sample ID: 180-118143-7

Date Collected: 03/08/21 17:45

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349528	03/17/21 00:35	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350103	03/20/21 21:26	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 13:21	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	349913	03/18/21 16:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350145	03/20/21 11:37	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349481	03/15/21 15:56	NAF	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-01

Lab Sample ID: 180-118143-8

Date Collected: 03/08/21 14:15

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349528	03/17/21 00:53	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350103	03/20/21 21:26	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 13:24	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	349913	03/18/21 16:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350145	03/20/21 11:38	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349481	03/15/21 15:56	NAF	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: DUP-01
Date Collected: 03/08/21 11:45
Date Received: 03/10/21 09:00

Lab Sample ID: 180-118143-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			349528	03/16/21 15:40	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		50			349528	03/16/21 15:58	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350103	03/20/21 21:26	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 13:52	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	349913	03/18/21 16:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350145	03/20/21 11:39	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	349481	03/15/21 15:56	NAF	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-13
Date Collected: 03/08/21 17:00
Date Received: 03/10/21 09:00

Lab Sample ID: 180-118143-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			349528	03/17/21 04:28	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		50			349528	03/17/21 04:46	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350103	03/20/21 21:26	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 14:03	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	349913	03/18/21 16:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350145	03/20/21 11:40	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	349481	03/15/21 15:56	NAF	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-14
Date Collected: 03/08/21 11:40
Date Received: 03/10/21 09:00

Lab Sample ID: 180-118143-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			349528	03/17/21 03:16	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		100			349528	03/17/21 03:34	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350103	03/20/21 21:26	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 14:06	RJR	TAL PIT
Instrument ID: NEMO										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-14

Date Collected: 03/08/21 11:40

Date Received: 03/10/21 09:00

Lab Sample ID: 180-118143-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	349913	03/18/21 16:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350145	03/20/21 11:41	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	349480	03/15/21 15:25	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-15

Date Collected: 03/08/21 14:55

Date Received: 03/10/21 09:00

Lab Sample ID: 180-118143-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			349528	03/17/21 02:05	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		100			349528	03/17/21 02:23	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350103	03/20/21 21:26	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 14:11	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	349913	03/18/21 16:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350145	03/20/21 11:42	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	349480	03/15/21 15:25	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-16

Date Collected: 03/08/21 13:30

Date Received: 03/10/21 09:00

Lab Sample ID: 180-118143-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			349644	03/17/21 10:31	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		50			349644	03/17/21 10:48	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	350103	03/20/21 21:26	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 14:22	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	349913	03/18/21 16:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350145	03/20/21 11:43	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	349481	03/15/21 15:56	NAF	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-8
Date Collected: 03/09/21 08:59
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			349805	03/18/21 13:20	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		100			349805	03/18/21 13:38	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		10			350667	03/24/21 19:37	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 16:48	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350147	03/20/21 15:14	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350625	03/24/21 12:29	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	349614	03/16/21 19:42	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-8D
Date Collected: 03/09/21 09:40
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349805	03/18/21 19:36	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350667	03/24/21 20:31	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 18:00	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350147	03/20/21 15:14	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350625	03/24/21 12:30	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349613	03/16/21 19:42	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-7
Date Collected: 03/09/21 11:01
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			349805	03/18/21 12:44	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		100			349805	03/18/21 13:02	SAT	TAL PIT
Instrument ID: INTEGRION										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-7

Lab Sample ID: 180-118244-3

Date Collected: 03/09/21 11:01

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350667	03/24/21 20:35	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 18:03	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:04	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	349613	03/16/21 19:42	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-6R

Lab Sample ID: 180-118244-4

Date Collected: 03/09/21 12:08

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			349805	03/18/21 12:08	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		100			349805	03/18/21 12:26	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		10			350737	03/25/21 10:00	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 18:18	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:05	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	349613	03/16/21 19:42	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3

Lab Sample ID: 180-118244-5

Date Collected: 03/09/21 07:50

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		25			349805	03/18/21 19:00	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		250			349805	03/18/21 19:18	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		5			350737	03/25/21 10:03	RSK	TAL PIT
Instrument ID: A										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-3
Date Collected: 03/09/21 07:50
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 18:39	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:08	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	349614	03/16/21 19:42	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3D
Date Collected: 03/09/21 08:40
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349805	03/18/21 17:31	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350737	03/25/21 10:14	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 18:54	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:09	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349614	03/16/21 19:42	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4
Date Collected: 03/09/21 10:45
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			349805	03/18/21 13:56	SAT	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		100			349805	03/18/21 14:14	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350737	03/25/21 10:18	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 18:57	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:11	KHM	TAL PIT
Instrument ID: HGZ										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-4
Date Collected: 03/09/21 10:45
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	349613	03/16/21 19:42	GRB	TAL PIT

Client Sample ID: APMW-4D
Date Collected: 03/09/21 09:45
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		25			349805	03/18/21 16:19	SAT	TAL PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		250			349805	03/18/21 16:37	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		2			350737	03/25/21 10:32	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			350556	03/23/21 19:12	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			350431	03/23/21 12:12	KHM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	5 mL	100 mL	349613	03/16/21 19:42	GRB	TAL PIT

Client Sample ID: APMW-5
Date Collected: 03/09/21 12:00
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		25			349805	03/18/21 16:55	SAT	TAL PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		250			349805	03/18/21 17:13	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		5			350737	03/25/21 10:47	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			350556	03/23/21 19:26	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			350431	03/23/21 12:13	KHM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	5 mL	100 mL	349613	03/16/21 19:42	GRB	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-5D

Lab Sample ID: 180-118244-10

Date Collected: 03/09/21 17:35

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349805	03/18/21 15:25	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350737	03/25/21 10:50	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 19:40	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:14	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349613	03/16/21 19:42	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-6D

Lab Sample ID: 180-118244-11

Date Collected: 03/10/21 07:30

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349964	03/20/21 00:11	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350737	03/25/21 10:54	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 19:44	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:15	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349760	03/17/21 19:08	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-12

Lab Sample ID: 180-118244-12

Date Collected: 03/10/21 06:58

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349960	03/19/21 19:40	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350737	03/25/21 10:57	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 19:48	RSK	TAL PIT
Instrument ID: DORY										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-12

Date Collected: 03/10/21 06:58

Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:16	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349760	03/17/21 19:08	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-11

Date Collected: 03/10/21 07:39

Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349964	03/19/21 23:17	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350737	03/25/21 11:01	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 19:51	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:19	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349759	03/17/21 19:05	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03

Date Collected: 03/10/21 06:39

Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349960	03/19/21 19:56	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 20:02	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:20	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349759	03/17/21 19:05	KMM	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: FB-03

Lab Sample ID: 180-118244-15

Date Collected: 03/10/21 07:30

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349960	03/19/21 13:30	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 20:05	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:21	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349759	03/17/21 19:05	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-03

Lab Sample ID: 180-118244-16

Date Collected: 03/10/21 06:50

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349960	03/19/21 13:46	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 20:09	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:22	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349759	03/17/21 19:05	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02

Lab Sample ID: 180-118244-17

Date Collected: 03/09/21 07:40

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349805	03/18/21 17:49	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 20:13	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:23	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349613	03/16/21 19:42	GRB	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: FB-02

Date Collected: 03/09/21 11:50

Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349805	03/18/21 15:07	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 20:16	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:24	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349613	03/16/21 19:42	GRB	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-02

Date Collected: 03/09/21 08:08

Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			349805	03/18/21 18:42	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350248	03/22/21 11:12	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350556	03/23/21 20:20	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			50 mL	50 mL	350083	03/19/21 17:07	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			350431	03/23/21 12:25	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349613	03/16/21 19:42	GRB	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KHM = Kyle Mucroski

TJO = Tyler Oliver

Batch Type: Analysis

EPS = Evan Scheuer

GRB = Gabriel Berghe

KHM = Kyle Mucroski

KMM = Kendric Moore

NAF = Nicholas Frankos

RJR = Ron Rosenbaum

RSK = Robert Kurtz

SAT = Stephen Tallam

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-10D

Lab Sample ID: 180-118143-1

Date Collected: 03/08/21 12:32

Matrix: Water

Date Received: 03/10/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.3		1.0	0.71	mg/L			03/16/21 16:15	1
Fluoride	0.23		0.20	0.026	mg/L			03/16/21 16:15	1
Sulfate	3.0		1.0	0.76	mg/L			03/16/21 16:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 12:48	1
Arsenic	0.010		0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 12:48	1
Barium	0.026		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 12:48	1
Beryllium	0.00057	J	0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 12:48	1
Boron	0.14		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 12:48	1
Cadmium	0.00025	J	0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 12:48	1
Calcium	3.4		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 12:48	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 12:48	1
Cobalt	0.00028	J	0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 12:48	1
Lead	0.00086	J	0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 12:48	1
Lithium	0.022		0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 12:48	1
Molybdenum	0.0096	J	0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 12:48	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 12:48	1
Thallium	0.00057	J	0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 12:48	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			03/15/21 15:56	1

Client Sample ID: APMW-10

Lab Sample ID: 180-118143-2

Date Collected: 03/08/21 13:18

Matrix: Water

Date Received: 03/10/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	920		25	18	mg/L			03/17/21 05:21	25
Fluoride	0.66		0.50	0.065	mg/L			03/17/21 05:04	2.5
Sulfate	24		2.5	1.9	mg/L			03/17/21 05:04	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 13:02	1
Arsenic	0.047		0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 13:02	1
Barium	0.32		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 13:02	1
Beryllium	0.00076	J	0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 13:02	1
Boron	1.8		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 13:02	1
Cadmium	0.00025	J	0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 13:02	1
Calcium	47		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 13:02	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 13:02	1
Cobalt	0.00033	J	0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 13:02	1
Lead	0.00016	J	0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 13:02	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-10

Lab Sample ID: 180-118143-2

Date Collected: 03/08/21 13:18

Matrix: Water

Date Received: 03/10/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.010		0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 13:02	1
Molybdenum	0.055		0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 13:02	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 13:02	1
Thallium	0.00068	J	0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 13:02	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2100		20	20	mg/L			03/15/21 15:56	1

Client Sample ID: APMW-9

Lab Sample ID: 180-118143-3

Date Collected: 03/08/21 14:14

Matrix: Water

Date Received: 03/10/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3100		100	71	mg/L			03/17/21 05:57	100
Fluoride	<0.26		2.0	0.26	mg/L			03/17/21 05:39	10
Sulfate	280		10	7.6	mg/L			03/17/21 05:39	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 13:05	1
Arsenic	0.0015		0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 13:05	1
Barium	0.47		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 13:05	1
Beryllium	0.00024	J	0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 13:05	1
Boron	6.5		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 13:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 13:05	1
Calcium	300		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 13:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 13:05	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 13:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 13:05	1
Lithium	0.0045	J	0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 13:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 13:05	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 13:05	1
Thallium	0.00024	J	0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 13:05	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6300		100	100	mg/L			03/15/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-1R

Lab Sample ID: 180-118143-4

Date Collected: 03/08/21 12:45

Matrix: Water

Date Received: 03/10/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500		50	36	mg/L			03/16/21 15:22	50
Fluoride	<0.13		1.0	0.13	mg/L			03/16/21 15:04	5
Sulfate	12		5.0	3.8	mg/L			03/16/21 15:04	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 13:27	1
Arsenic	0.00050	J	0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 13:27	1
Barium	1.3		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 13:27	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 13:27	1
Boron	7.3		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 13:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 13:27	1
Calcium	210		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 13:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 13:27	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 13:27	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 13:27	1
Lithium	0.013		0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 13:27	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 13:27	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 13:27	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 13:27	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5200		100	100	mg/L			03/15/21 15:56	1

Client Sample ID: APMW-2

Lab Sample ID: 180-118143-5

Date Collected: 03/08/21 13:55

Matrix: Water

Date Received: 03/10/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500		50	36	mg/L			03/17/21 04:10	50
Fluoride	<0.13		1.0	0.13	mg/L			03/17/21 03:52	5
Sulfate	5.7		5.0	3.8	mg/L			03/17/21 03:52	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 13:38	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 13:38	1
Barium	3.3		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 13:38	1
Beryllium	0.00018	J	0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 13:38	1
Boron	3.5		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 13:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 13:38	1
Calcium	350		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 13:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 13:38	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 13:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 13:38	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-2

Lab Sample ID: 180-118143-5

Date Collected: 03/08/21 13:55

Matrix: Water

Date Received: 03/10/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.030		0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 13:38	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 13:38	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 13:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 13:38	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4300		40	40	mg/L			03/15/21 15:56	1

Client Sample ID: APMW-2D

Lab Sample ID: 180-118143-6

Date Collected: 03/08/21 18:15

Matrix: Water

Date Received: 03/10/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.71	mg/L			03/16/21 16:33	1
Fluoride	0.20		0.20	0.026	mg/L			03/16/21 16:33	1
Sulfate	4.6		1.0	0.76	mg/L			03/16/21 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 13:49	1
Arsenic	0.0032		0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 13:49	1
Barium	0.037		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 13:49	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 13:49	1
Boron	0.094		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 13:49	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 13:49	1
Calcium	3.6		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 13:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 13:49	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 13:49	1
Lead	0.00016	J	0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 13:49	1
Lithium	0.0091		0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 13:49	1
Molybdenum	0.0018	J	0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 13:49	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 13:49	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 13:49	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			03/15/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: FB-01

Lab Sample ID: 180-118143-7

Date Collected: 03/08/21 17:45

Matrix: Water

Date Received: 03/10/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/17/21 00:35	1
Fluoride	<0.026		0.20	0.026	mg/L			03/17/21 00:35	1
Sulfate	<0.76		1.0	0.76	mg/L			03/17/21 00:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 13:21	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 13:21	1
Barium	<0.0016		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 13:21	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 13:21	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 13:21	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 13:21	1
Calcium	<0.13		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 13:21	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 13:21	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 13:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 13:21	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 13:21	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 13:21	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 13:21	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 13:21	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/15/21 15:56	1

Client Sample ID: EB-01

Lab Sample ID: 180-118143-8

Date Collected: 03/08/21 14:15

Matrix: Water

Date Received: 03/10/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/17/21 00:53	1
Fluoride	<0.026		0.20	0.026	mg/L			03/17/21 00:53	1
Sulfate	<0.76		1.0	0.76	mg/L			03/17/21 00:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 13:24	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 13:24	1
Barium	<0.0016		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 13:24	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 13:24	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 13:24	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 13:24	1
Calcium	<0.13		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 13:24	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 13:24	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 13:24	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 13:24	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: EB-01

Lab Sample ID: 180-118143-8

Date Collected: 03/08/21 14:15

Matrix: Water

Date Received: 03/10/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0034		0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 13:24	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 13:24	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 13:24	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 13:24	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/15/21 15:56	1

Client Sample ID: DUP-01

Lab Sample ID: 180-118143-9

Date Collected: 03/08/21 11:45

Matrix: Water

Date Received: 03/10/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		50	36	mg/L			03/16/21 15:58	50
Fluoride	<0.13		1.0	0.13	mg/L			03/16/21 15:40	5
Sulfate	7.8		5.0	3.8	mg/L			03/16/21 15:40	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 13:52	1
Arsenic	0.00053	J	0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 13:52	1
Barium	1.3		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 13:52	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 13:52	1
Boron	7.3		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 13:52	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 13:52	1
Calcium	210		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 13:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 13:52	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 13:52	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 13:52	1
Lithium	0.013		0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 13:52	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 13:52	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 13:52	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 13:52	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5400		100	100	mg/L			03/15/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-13

Lab Sample ID: 180-118143-10

Date Collected: 03/08/21 17:00

Matrix: Water

Date Received: 03/10/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600		50	36	mg/L			03/17/21 04:46	50
Fluoride	0.17	J	1.0	0.13	mg/L			03/17/21 04:28	5
Sulfate	720		5.0	3.8	mg/L			03/17/21 04:28	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 14:03	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 14:03	1
Barium	0.24		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 14:03	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 14:03	1
Boron	0.63		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 14:03	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 14:03	1
Calcium	92		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 14:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 14:03	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 14:03	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 14:03	1
Lithium	0.0042	J	0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 14:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 14:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 14:03	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 14:03	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3600		40	40	mg/L			03/15/21 15:56	1

Client Sample ID: APMW-14

Lab Sample ID: 180-118143-11

Date Collected: 03/08/21 11:40

Matrix: Water

Date Received: 03/10/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		100	71	mg/L			03/17/21 03:34	100
Fluoride	<0.26		2.0	0.26	mg/L			03/17/21 03:16	10
Sulfate	740		10	7.6	mg/L			03/17/21 03:16	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 14:06	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 14:06	1
Barium	0.21		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 14:06	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 14:06	1
Boron	0.71		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 14:06	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 14:06	1
Calcium	110		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 14:06	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 14:06	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 14:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 14:06	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-14

Lab Sample ID: 180-118143-11

Date Collected: 03/08/21 11:40

Matrix: Water

Date Received: 03/10/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0034		0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 14:06	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 14:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 14:06	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 14:06	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6800		100	100	mg/L			03/15/21 15:25	1

Client Sample ID: APMW-15

Lab Sample ID: 180-118143-12

Date Collected: 03/08/21 14:55

Matrix: Water

Date Received: 03/10/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		100	71	mg/L			03/17/21 02:23	100
Fluoride	0.41	J	2.0	0.26	mg/L			03/17/21 02:05	10
Sulfate	97		10	7.6	mg/L			03/17/21 02:05	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 14:11	1
Arsenic	0.00073	J	0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 14:11	1
Barium	0.048		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 14:11	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 14:11	1
Boron	0.59		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 14:11	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 14:11	1
Calcium	69		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 14:11	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 14:11	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 14:11	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 14:11	1
Lithium	0.0080		0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 14:11	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 14:11	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 14:11	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 14:11	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6200		100	100	mg/L			03/15/21 15:25	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-16

Lab Sample ID: 180-118143-13

Date Collected: 03/08/21 13:30

Matrix: Water

Date Received: 03/10/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2600		50	36	mg/L			03/17/21 10:48	50
Fluoride	0.28	J	1.0	0.13	mg/L			03/17/21 10:31	5
Sulfate	72		5.0	3.8	mg/L			03/17/21 10:31	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 14:22	1
Arsenic	0.00072	J	0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 14:22	1
Barium	0.063		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 14:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 14:22	1
Boron	0.60		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 14:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 14:22	1
Calcium	69		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 14:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 14:22	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 14:22	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 14:22	1
Lithium	0.0086		0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 14:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 14:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 14:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 14:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5100		100	100	mg/L			03/15/21 15:56	1

Client Sample ID: APMW-8

Lab Sample ID: 180-118244-1

Date Collected: 03/09/21 08:59

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3600		100	71	mg/L			03/18/21 13:38	100
Fluoride	1.1	J	2.0	0.26	mg/L			03/18/21 13:20	10
Sulfate	630		10	7.6	mg/L			03/18/21 13:20	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 16:48	1
Arsenic	0.035		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 16:48	1
Barium	0.22		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 16:48	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 16:48	1
Boron	21		0.80	0.39	mg/L		03/22/21 11:12	03/24/21 19:37	10
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 16:48	1
Calcium	480		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 16:48	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 16:48	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 16:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 16:48	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-8

Lab Sample ID: 180-118244-1

Date Collected: 03/09/21 08:59

Matrix: Water

Date Received: 03/11/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.073		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 16:48	1
Molybdenum	0.069		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 16:48	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 16:48	1
Thallium	0.00017	J	0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 16:48	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/20/21 15:14	03/24/21 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8100		100	100	mg/L			03/16/21 19:42	1

Client Sample ID: APMW-8D

Lab Sample ID: 180-118244-2

Date Collected: 03/09/21 09:40

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.2		1.0	0.71	mg/L			03/18/21 19:36	1
Fluoride	0.17	J	0.20	0.026	mg/L			03/18/21 19:36	1
Sulfate	0.84	J	1.0	0.76	mg/L			03/18/21 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 18:00	1
Arsenic	0.0045		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 18:00	1
Barium	0.15		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 18:00	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 18:00	1
Boron	0.095		0.080	0.039	mg/L		03/22/21 11:12	03/24/21 20:31	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 18:00	1
Calcium	13		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 18:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 18:00	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 18:00	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 18:00	1
Lithium	0.0050		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 18:00	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 18:00	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 18:00	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 18:00	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/20/21 15:14	03/24/21 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			03/16/21 19:42	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-7

Lab Sample ID: 180-118244-3

Date Collected: 03/09/21 11:01

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4600		100	71	mg/L			03/18/21 13:02	100
Fluoride	0.26	J	2.0	0.26	mg/L			03/18/21 12:44	10
Sulfate	100		10	7.6	mg/L			03/18/21 12:44	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 18:03	1
Arsenic	0.00045	J	0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 18:03	1
Barium	0.53		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 18:03	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 18:03	1
Boron	0.91		0.080	0.039	mg/L		03/22/21 11:12	03/24/21 20:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 18:03	1
Calcium	120		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 18:03	1
Chromium	0.0022		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 18:03	1
Cobalt	0.00025	J	0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 18:03	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 18:03	1
Lithium	0.0040	J	0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 18:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 18:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 18:03	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 18:03	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7800		100	100	mg/L			03/16/21 19:42	1

Client Sample ID: APMW-6R

Lab Sample ID: 180-118244-4

Date Collected: 03/09/21 12:08

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		100	71	mg/L			03/18/21 12:26	100
Fluoride	<0.26		2.0	0.26	mg/L			03/18/21 12:08	10
Sulfate	830		10	7.6	mg/L			03/18/21 12:08	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 18:18	1
Arsenic	0.21		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 18:18	1
Barium	0.055		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 18:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 18:18	1
Boron	12	B	0.80	0.39	mg/L		03/22/21 11:12	03/25/21 10:00	10
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 18:18	1
Calcium	460		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 18:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 18:18	1
Cobalt	0.0017	J	0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 18:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 18:18	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-6R

Lab Sample ID: 180-118244-4

Date Collected: 03/09/21 12:08

Matrix: Water

Date Received: 03/11/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.057		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 18:18	1
Molybdenum	0.48		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 18:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 18:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 18:18	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8800		100	100	mg/L			03/16/21 19:42	1

Client Sample ID: APMW-3

Lab Sample ID: 180-118244-5

Date Collected: 03/09/21 07:50

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10000		250	180	mg/L			03/18/21 19:18	250
Fluoride	0.87	J	5.0	0.65	mg/L			03/18/21 19:00	25
Sulfate	1100		25	19	mg/L			03/18/21 19:00	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 18:39	1
Arsenic	0.042		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 18:39	1
Barium	0.10		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 18:39	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 18:39	1
Boron	5.5	B	0.40	0.19	mg/L		03/22/21 11:12	03/25/21 10:03	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 18:39	1
Calcium	350		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 18:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 18:39	1
Cobalt	0.0034		0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 18:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 18:39	1
Lithium	0.075		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 18:39	1
Molybdenum	0.076		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 18:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 18:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 18:39	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	22000		200	200	mg/L			03/16/21 19:42	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-3D

Lab Sample ID: 180-118244-6

Date Collected: 03/09/21 08:40

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49		1.0	0.71	mg/L			03/18/21 17:31	1
Fluoride	0.18	J	0.20	0.026	mg/L			03/18/21 17:31	1
Sulfate	11		1.0	0.76	mg/L			03/18/21 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 18:54	1
Arsenic	0.0035		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 18:54	1
Barium	0.16		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 18:54	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 18:54	1
Boron	0.099	B	0.080	0.039	mg/L		03/22/21 11:12	03/25/21 10:14	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 18:54	1
Calcium	13		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 18:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 18:54	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 18:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 18:54	1
Lithium	0.0098		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 18:54	1
Molybdenum	0.0012	J	0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 18:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 18:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 18:54	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		10	10	mg/L			03/16/21 19:42	1

Client Sample ID: APMW-4

Lab Sample ID: 180-118244-7

Date Collected: 03/09/21 10:45

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3100		100	71	mg/L			03/18/21 14:14	100
Fluoride	0.55	J	2.0	0.26	mg/L			03/18/21 13:56	10
Sulfate	320		10	7.6	mg/L			03/18/21 13:56	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 18:57	1
Arsenic	0.016		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 18:57	1
Barium	0.22		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 18:57	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 18:57	1
Boron	1.2	B	0.080	0.039	mg/L		03/22/21 11:12	03/25/21 10:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 18:57	1
Calcium	160		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 18:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 18:57	1
Cobalt	0.0041		0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 18:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 18:57	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-4

Lab Sample ID: 180-118244-7

Date Collected: 03/09/21 10:45

Matrix: Water

Date Received: 03/11/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.051		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 18:57	1
Molybdenum	0.0059	J	0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 18:57	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 18:57	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 18:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5500		100	100	mg/L			03/16/21 19:42	1

Client Sample ID: APMW-4D

Lab Sample ID: 180-118244-8

Date Collected: 03/09/21 09:45

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9100		250	180	mg/L			03/18/21 16:37	250
Fluoride	<0.65		5.0	0.65	mg/L			03/18/21 16:19	25
Sulfate	520		25	19	mg/L			03/18/21 16:19	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 19:12	1
Arsenic	0.0059		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 19:12	1
Barium	0.21		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 19:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 19:12	1
Boron	3.3	B	0.16	0.077	mg/L		03/22/21 11:12	03/25/21 10:32	2
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 19:12	1
Calcium	240		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 19:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 19:12	1
Cobalt	0.0023	J	0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 19:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 19:12	1
Lithium	0.044		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 19:12	1
Molybdenum	0.37		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 19:12	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 19:12	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 19:12	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	19000		200	200	mg/L			03/16/21 19:42	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-5

Lab Sample ID: 180-118244-9

Date Collected: 03/09/21 12:00

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8700		250	180	mg/L			03/18/21 17:13	250
Fluoride	<0.65		5.0	0.65	mg/L			03/18/21 16:55	25
Sulfate	910		25	19	mg/L			03/18/21 16:55	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 19:26	1
Arsenic	0.21		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 19:26	1
Barium	0.10		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 19:26	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 19:26	1
Boron	6.1	B	0.40	0.19	mg/L		03/22/21 11:12	03/25/21 10:47	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 19:26	1
Calcium	340		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 19:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 19:26	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 19:26	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 19:26	1
Lithium	0.048		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 19:26	1
Molybdenum	0.072		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 19:26	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 19:26	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 19:26	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	20000		200	200	mg/L			03/16/21 19:42	1

Client Sample ID: APMW-5D

Lab Sample ID: 180-118244-10

Date Collected: 03/09/21 17:35

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.5		1.0	0.71	mg/L			03/18/21 15:25	1
Fluoride	0.17	J	0.20	0.026	mg/L			03/18/21 15:25	1
Sulfate	11		1.0	0.76	mg/L			03/18/21 15:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 19:40	1
Arsenic	0.013		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 19:40	1
Barium	0.059		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 19:40	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 19:40	1
Boron	0.083	B	0.080	0.039	mg/L		03/22/21 11:12	03/25/21 10:50	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 19:40	1
Calcium	1.5		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 19:40	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 19:40	1
Cobalt	0.00041	J	0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 19:40	1
Lead	0.00026	J	0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 19:40	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-5D

Lab Sample ID: 180-118244-10

Date Collected: 03/09/21 17:35

Matrix: Water

Date Received: 03/11/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0099		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 19:40	1
Molybdenum	0.00091	J	0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 19:40	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 19:40	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 19:40	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			03/16/21 19:42	1

Client Sample ID: APMW-6D

Lab Sample ID: 180-118244-11

Date Collected: 03/10/21 07:30

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.6		1.0	0.71	mg/L			03/20/21 00:11	1
Fluoride	0.18	J	0.20	0.026	mg/L			03/20/21 00:11	1
Sulfate	14		1.0	0.76	mg/L			03/20/21 00:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 19:44	1
Arsenic	0.0045		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 19:44	1
Barium	0.087		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 19:44	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 19:44	1
Boron	0.076	J B	0.080	0.039	mg/L		03/22/21 11:12	03/25/21 10:54	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 19:44	1
Calcium	5.3		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 19:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 19:44	1
Cobalt	0.00021	J	0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 19:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 19:44	1
Lithium	0.0059		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 19:44	1
Molybdenum	0.0011	J	0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 19:44	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 19:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 19:44	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			03/17/21 19:08	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-12

Lab Sample ID: 180-118244-12

Date Collected: 03/10/21 06:58

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		1.0	0.71	mg/L			03/19/21 19:40	1
Fluoride	0.052	J	0.20	0.026	mg/L			03/19/21 19:40	1
Sulfate	1.1		1.0	0.76	mg/L			03/19/21 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 19:48	1
Arsenic	0.00039	J	0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 19:48	1
Barium	0.060		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 19:48	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 19:48	1
Boron	0.046	J B	0.080	0.039	mg/L		03/22/21 11:12	03/25/21 10:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 19:48	1
Calcium	12		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 19:48	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 19:48	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 19:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 19:48	1
Lithium	0.017		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 19:48	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 19:48	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 19:48	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 19:48	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			03/17/21 19:08	1

Client Sample ID: APMW-11

Lab Sample ID: 180-118244-13

Date Collected: 03/10/21 07:39

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.9		1.0	0.71	mg/L			03/19/21 23:17	1
Fluoride	0.056	J	0.20	0.026	mg/L			03/19/21 23:17	1
Sulfate	<0.76		1.0	0.76	mg/L			03/19/21 23:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 19:51	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 19:51	1
Barium	0.038		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 19:51	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 19:51	1
Boron	<0.039		0.080	0.039	mg/L		03/22/21 11:12	03/25/21 11:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 19:51	1
Calcium	12		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 19:51	1
Chromium	0.0044		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 19:51	1
Cobalt	0.00031	J	0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 19:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 19:51	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: APMW-11

Lab Sample ID: 180-118244-13

Date Collected: 03/10/21 07:39

Matrix: Water

Date Received: 03/11/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.012		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 19:51	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 19:51	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 19:51	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 19:51	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	89		10	10	mg/L			03/17/21 19:05	1

Client Sample ID: DUP-03

Lab Sample ID: 180-118244-14

Date Collected: 03/10/21 06:39

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		1.0	0.71	mg/L			03/19/21 19:56	1
Fluoride	0.054	J	0.20	0.026	mg/L			03/19/21 19:56	1
Sulfate	<0.76		1.0	0.76	mg/L			03/19/21 19:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 20:02	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 20:02	1
Barium	0.039		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 20:02	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 20:02	1
Boron	0.086	B	0.080	0.039	mg/L		03/22/21 11:12	03/23/21 20:02	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 20:02	1
Calcium	12		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 20:02	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 20:02	1
Cobalt	0.00033	J	0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 20:02	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 20:02	1
Lithium	0.011		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 20:02	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 20:02	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 20:02	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 20:02	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	71		10	10	mg/L			03/17/21 19:05	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: FB-03

Lab Sample ID: 180-118244-15

Date Collected: 03/10/21 07:30

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/19/21 13:30	1
Fluoride	<0.026		0.20	0.026	mg/L			03/19/21 13:30	1
Sulfate	<0.76		1.0	0.76	mg/L			03/19/21 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 20:05	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 20:05	1
Barium	<0.0016		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 20:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 20:05	1
Boron	0.070	J B	0.080	0.039	mg/L		03/22/21 11:12	03/23/21 20:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 20:05	1
Calcium	<0.13		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 20:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 20:05	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 20:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 20:05	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 20:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 20:05	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 20:05	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 20:05	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/17/21 19:05	1

Client Sample ID: EB-03

Lab Sample ID: 180-118244-16

Date Collected: 03/10/21 06:50

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/19/21 13:46	1
Fluoride	<0.026		0.20	0.026	mg/L			03/19/21 13:46	1
Sulfate	<0.76		1.0	0.76	mg/L			03/19/21 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 20:09	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 20:09	1
Barium	<0.0016		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 20:09	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 20:09	1
Boron	0.051	J B	0.080	0.039	mg/L		03/22/21 11:12	03/23/21 20:09	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 20:09	1
Calcium	<0.13		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 20:09	1
Chromium	0.0029		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 20:09	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 20:09	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 20:09	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: EB-03
Date Collected: 03/10/21 06:50
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0034		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 20:09	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 20:09	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 20:09	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 20:09	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/17/21 19:05	1

Client Sample ID: DUP-02
Date Collected: 03/09/21 07:40
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-17
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47		1.0	0.71	mg/L			03/18/21 17:49	1
Fluoride	0.19	J	0.20	0.026	mg/L			03/18/21 17:49	1
Sulfate	10		1.0	0.76	mg/L			03/18/21 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 20:13	1
Arsenic	0.0034		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 20:13	1
Barium	0.16		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 20:13	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 20:13	1
Boron	0.11	B	0.080	0.039	mg/L		03/22/21 11:12	03/23/21 20:13	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 20:13	1
Calcium	13		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 20:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 20:13	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 20:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 20:13	1
Lithium	0.0097		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 20:13	1
Molybdenum	0.0012	J	0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 20:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 20:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 20:13	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		10	10	mg/L			03/16/21 19:42	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: FB-02

Lab Sample ID: 180-118244-18

Date Collected: 03/09/21 11:50

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/18/21 15:07	1
Fluoride	<0.026		0.20	0.026	mg/L			03/18/21 15:07	1
Sulfate	<0.76		1.0	0.76	mg/L			03/18/21 15:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 20:16	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 20:16	1
Barium	<0.0016		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 20:16	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 20:16	1
Boron	<0.039		0.080	0.039	mg/L		03/22/21 11:12	03/23/21 20:16	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 20:16	1
Calcium	<0.13		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 20:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 20:16	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 20:16	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 20:16	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 20:16	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 20:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 20:16	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 20:16	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/16/21 19:42	1

Client Sample ID: EB-02

Lab Sample ID: 180-118244-19

Date Collected: 03/09/21 08:08

Matrix: Water

Date Received: 03/11/21 08:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/18/21 18:42	1
Fluoride	<0.026		0.20	0.026	mg/L			03/18/21 18:42	1
Sulfate	<0.76		1.0	0.76	mg/L			03/18/21 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 20:20	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 20:20	1
Barium	<0.0016		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 20:20	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 20:20	1
Boron	<0.039		0.080	0.039	mg/L		03/22/21 11:12	03/23/21 20:20	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 20:20	1
Calcium	<0.13		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 20:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 20:20	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 20:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 20:20	1

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Client Sample ID: EB-02
Date Collected: 03/09/21 08:08
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0034		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 20:20	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 20:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 20:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 20:20	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/16/21 19:42	1



QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-349528/53
Matrix: Water
Analysis Batch: 349528

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/17/21 00:18	1
Fluoride	<0.026		0.20	0.026	mg/L			03/17/21 00:18	1
Sulfate	<0.76		1.0	0.76	mg/L			03/17/21 00:18	1

Lab Sample ID: MB 180-349528/6
Matrix: Water
Analysis Batch: 349528

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/16/21 09:03	1
Fluoride	<0.026		0.20	0.026	mg/L			03/16/21 09:03	1
Sulfate	<0.76		1.0	0.76	mg/L			03/16/21 09:03	1

Lab Sample ID: LCS 180-349528/5
Matrix: Water
Analysis Batch: 349528

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.8		mg/L		106	90 - 110
Fluoride	2.50	2.52		mg/L		101	90 - 110
Sulfate	50.0	52.7		mg/L		105	90 - 110

Lab Sample ID: LCS 180-349528/52
Matrix: Water
Analysis Batch: 349528

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.9		mg/L		104	90 - 110
Fluoride	2.50	2.45		mg/L		98	90 - 110
Sulfate	50.0	51.6		mg/L		103	90 - 110

Lab Sample ID: MB 180-349644/6
Matrix: Water
Analysis Batch: 349644

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/17/21 07:38	1
Fluoride	<0.026		0.20	0.026	mg/L			03/17/21 07:38	1
Sulfate	<0.76		1.0	0.76	mg/L			03/17/21 07:38	1

Lab Sample ID: LCS 180-349644/5
Matrix: Water
Analysis Batch: 349644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	47.5		mg/L		95	90 - 110
Fluoride	2.50	2.58		mg/L		103	90 - 110
Sulfate	50.0	49.2		mg/L		98	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-349805/6
Matrix: Water
Analysis Batch: 349805

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/18/21 07:57	1
Fluoride	<0.026		0.20	0.026	mg/L			03/18/21 07:57	1
Sulfate	<0.76		1.0	0.76	mg/L			03/18/21 07:57	1

Lab Sample ID: LCS 180-349805/5
Matrix: Water
Analysis Batch: 349805

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.4		mg/L		105	90 - 110
Fluoride	2.50	2.51		mg/L		100	90 - 110
Sulfate	50.0	52.4		mg/L		105	90 - 110

Lab Sample ID: 180-118244-10 MS
Matrix: Water
Analysis Batch: 349805

Client Sample ID: APMW-5D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.5		50.0	58.3		mg/L		100	90 - 110
Fluoride	0.17	J	2.50	2.54		mg/L		95	90 - 110
Sulfate	11		50.0	60.3		mg/L		98	90 - 110

Lab Sample ID: 180-118244-10 MSD
Matrix: Water
Analysis Batch: 349805

Client Sample ID: APMW-5D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.5		50.0	57.4		mg/L		98	90 - 110	2	20
Fluoride	0.17	J	2.50	2.51		mg/L		93	90 - 110	1	20
Sulfate	11		50.0	59.4		mg/L		96	90 - 110	2	20

Lab Sample ID: MB 180-349960/6
Matrix: Water
Analysis Batch: 349960

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/19/21 07:13	1
Fluoride	<0.026		0.20	0.026	mg/L			03/19/21 07:13	1
Sulfate	<0.76		1.0	0.76	mg/L			03/19/21 07:13	1

Lab Sample ID: LCS 180-349960/5
Matrix: Water
Analysis Batch: 349960

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.4		mg/L		105	90 - 110
Fluoride	2.50	2.61		mg/L		104	90 - 110
Sulfate	50.0	53.6		mg/L		107	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-349964/40
Matrix: Water
Analysis Batch: 349964

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/19/21 20:54	1
Fluoride	<0.026		0.20	0.026	mg/L			03/19/21 20:54	1
Sulfate	<0.76		1.0	0.76	mg/L			03/19/21 20:54	1

Lab Sample ID: LCS 180-349964/39
Matrix: Water
Analysis Batch: 349964

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.9		mg/L		106	90 - 110
Fluoride	2.50	2.51		mg/L		100	90 - 110
Sulfate	50.0	52.5		mg/L		105	90 - 110

Lab Sample ID: 180-118244-13 MS
Matrix: Water
Analysis Batch: 349964

Client Sample ID: APMW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.9		50.0	57.7		mg/L		98	90 - 110
Fluoride	0.056	J	2.50	2.41		mg/L		94	90 - 110
Sulfate	<0.76		50.0	49.1		mg/L		98	90 - 110

Lab Sample ID: 180-118244-13 MSD
Matrix: Water
Analysis Batch: 349964

Client Sample ID: APMW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.9		50.0	58.1		mg/L		98	90 - 110	1	20
Fluoride	0.056	J	2.50	2.42		mg/L		95	90 - 110	1	20
Sulfate	<0.76		50.0	49.3		mg/L		99	90 - 110	0	20

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

Lab Sample ID: MB 180-350103/1-A
Matrix: Water
Analysis Batch: 350467

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 350103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:26	03/23/21 12:43	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:26	03/23/21 12:43	1
Barium	<0.0016		0.010	0.0016	mg/L		03/20/21 21:26	03/23/21 12:43	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:26	03/23/21 12:43	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:26	03/23/21 12:43	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/20/21 21:26	03/23/21 12:43	1
Calcium	<0.13		0.50	0.13	mg/L		03/20/21 21:26	03/23/21 12:43	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:26	03/23/21 12:43	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:26	03/23/21 12:43	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:26	03/23/21 12:43	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/20/21 21:26	03/23/21 12:43	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:26	03/23/21 12:43	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

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

Lab Sample ID: MB 180-350103/1-A
Matrix: Water
Analysis Batch: 350467

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 350103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:26	03/23/21 12:43	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:26	03/23/21 12:43	1

Lab Sample ID: LCS 180-350103/2-A
Matrix: Water
Analysis Batch: 350467

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 350103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.237		mg/L		95	80 - 120
Arsenic	1.00	0.925		mg/L		92	80 - 120
Barium	1.00	0.995		mg/L		99	80 - 120
Beryllium	0.500	0.489		mg/L		98	80 - 120
Boron	1.25	1.24		mg/L		99	80 - 120
Cadmium	0.500	0.509		mg/L		102	80 - 120
Calcium	25.0	26.0		mg/L		104	80 - 120
Chromium	0.500	0.488		mg/L		98	80 - 120
Cobalt	0.500	0.463		mg/L		93	80 - 120
Lead	0.500	0.497		mg/L		99	80 - 120
Lithium	0.500	0.496		mg/L		99	80 - 120
Molybdenum	0.500	0.492		mg/L		98	80 - 120
Selenium	1.00	1.11		mg/L		111	80 - 120
Thallium	1.00	0.979		mg/L		98	80 - 120

Lab Sample ID: 180-118143-1 MS
Matrix: Water
Analysis Batch: 350467

Client Sample ID: APMW-10D
Prep Type: Total Recoverable
Prep Batch: 350103

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.00038		0.250	0.234		mg/L		94	75 - 125
Arsenic	0.010		1.00	0.957		mg/L		95	75 - 125
Barium	0.026		1.00	1.01		mg/L		99	75 - 125
Beryllium	0.00057	J	0.500	0.469		mg/L		94	75 - 125
Boron	0.14		1.25	1.36		mg/L		98	75 - 125
Cadmium	0.00025	J	0.500	0.503		mg/L		101	75 - 125
Calcium	3.4		25.0	28.6		mg/L		101	75 - 125
Chromium	<0.0015		0.500	0.477		mg/L		95	75 - 125
Cobalt	0.00028	J	0.500	0.467		mg/L		93	75 - 125
Lead	0.00086	J	0.500	0.494		mg/L		99	75 - 125
Lithium	0.022		0.500	0.497		mg/L		95	75 - 125
Molybdenum	0.0096	J	0.500	0.508		mg/L		100	75 - 125
Selenium	<0.0015		1.00	1.06		mg/L		106	75 - 125
Thallium	0.00057	J	1.00	0.953		mg/L		95	75 - 125

Lab Sample ID: 180-118143-1 MSD
Matrix: Water
Analysis Batch: 350467

Client Sample ID: APMW-10D
Prep Type: Total Recoverable
Prep Batch: 350103

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.00038		0.250	0.242		mg/L		97	75 - 125	3	20

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

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

Lab Sample ID: 180-118143-1 MSD
Matrix: Water
Analysis Batch: 350467

Client Sample ID: APMW-10D
Prep Type: Total Recoverable
Prep Batch: 350103

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.010		1.00	0.990		mg/L		98	75 - 125	3	20
Barium	0.026		1.00	1.03		mg/L		100	75 - 125	1	20
Beryllium	0.00057	J	0.500	0.499		mg/L		100	75 - 125	6	20
Boron	0.14		1.25	1.40		mg/L		101	75 - 125	3	20
Cadmium	0.00025	J	0.500	0.511		mg/L		102	75 - 125	1	20
Calcium	3.4		25.0	29.7		mg/L		105	75 - 125	4	20
Chromium	<0.0015		0.500	0.488		mg/L		98	75 - 125	2	20
Cobalt	0.00028	J	0.500	0.483		mg/L		97	75 - 125	3	20
Lead	0.00086	J	0.500	0.489		mg/L		98	75 - 125	1	20
Lithium	0.022		0.500	0.515		mg/L		99	75 - 125	3	20
Molybdenum	0.0096	J	0.500	0.520		mg/L		102	75 - 125	2	20
Selenium	<0.0015		1.00	1.08		mg/L		108	75 - 125	2	20
Thallium	0.00057	J	1.00	0.934		mg/L		93	75 - 125	2	20

Lab Sample ID: MB 180-350248/1-A
Matrix: Water
Analysis Batch: 350556

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 350248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/22/21 11:12	03/23/21 16:19	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/22/21 11:12	03/23/21 16:19	1
Barium	<0.0016		0.010	0.0016	mg/L		03/22/21 11:12	03/23/21 16:19	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/22/21 11:12	03/23/21 16:19	1
Boron	0.0515	J	0.080	0.039	mg/L		03/22/21 11:12	03/23/21 16:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/22/21 11:12	03/23/21 16:19	1
Calcium	<0.13		0.50	0.13	mg/L		03/22/21 11:12	03/23/21 16:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/22/21 11:12	03/23/21 16:19	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/22/21 11:12	03/23/21 16:19	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/22/21 11:12	03/23/21 16:19	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/22/21 11:12	03/23/21 16:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/22/21 11:12	03/23/21 16:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/22/21 11:12	03/23/21 16:19	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/22/21 11:12	03/23/21 16:19	1

Lab Sample ID: MB 180-350248/1-A
Matrix: Water
Analysis Batch: 350667

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 350248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		03/22/21 11:12	03/24/21 19:08	1

Lab Sample ID: LCS 180-350248/2-A
Matrix: Water
Analysis Batch: 350556

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 350248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.233		mg/L		93	80 - 120
Arsenic	1.00	0.981		mg/L		98	80 - 120
Barium	1.00	0.998		mg/L		100	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

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

Lab Sample ID: LCS 180-350248/2-A
Matrix: Water
Analysis Batch: 350556

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 350248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.500	0.508		mg/L		102	80 - 120
Cadmium	0.500	0.492		mg/L		98	80 - 120
Calcium	25.0	28.8		mg/L		115	80 - 120
Chromium	0.500	0.491		mg/L		98	80 - 120
Cobalt	0.500	0.488		mg/L		98	80 - 120
Lead	0.500	0.499		mg/L		100	80 - 120
Lithium	0.500	0.548		mg/L		110	80 - 120
Molybdenum	0.500	0.498		mg/L		100	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: LCS 180-350248/2-A
Matrix: Water
Analysis Batch: 350667

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 350248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.21		mg/L		97	80 - 120

Lab Sample ID: 180-118244-1 MS
Matrix: Water
Analysis Batch: 350556

Client Sample ID: APMW-8
Prep Type: Total Recoverable
Prep Batch: 350248

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.00038		0.250	0.236		mg/L		94	75 - 125
Arsenic	0.035		1.00	1.10		mg/L		106	75 - 125
Barium	0.22		1.00	1.23		mg/L		102	75 - 125
Beryllium	<0.00018		0.500	0.464		mg/L		93	75 - 125
Cadmium	<0.00022		0.500	0.462		mg/L		92	75 - 125
Calcium	480		25.0	522	4	mg/L		184	75 - 125
Chromium	<0.0015		0.500	0.467		mg/L		93	75 - 125
Cobalt	<0.00013		0.500	0.513		mg/L		103	75 - 125
Lead	<0.00013		0.500	0.516		mg/L		103	75 - 125
Lithium	0.073		0.500	0.546		mg/L		95	75 - 125
Molybdenum	0.069		0.500	0.601		mg/L		106	75 - 125
Selenium	<0.0015		1.00	0.901		mg/L		90	75 - 125
Thallium	0.00017	J	1.00	1.07		mg/L		107	75 - 125

Lab Sample ID: 180-118244-1 MS
Matrix: Water
Analysis Batch: 350667

Client Sample ID: APMW-8
Prep Type: Total Recoverable
Prep Batch: 350248

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	21		1.25	22.3	4	mg/L		90	75 - 125

Lab Sample ID: 180-118244-1 MSD
Matrix: Water
Analysis Batch: 350556

Client Sample ID: APMW-8
Prep Type: Total Recoverable
Prep Batch: 350248

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.00038		0.250	0.242		mg/L		97	75 - 125	3	20

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

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

Lab Sample ID: 180-118244-1 MSD
Matrix: Water
Analysis Batch: 350556

Client Sample ID: APMW-8
Prep Type: Total Recoverable
Prep Batch: 350248

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.035		1.00	1.11		mg/L		108	75 - 125	2	20
Barium	0.22		1.00	1.26		mg/L		104	75 - 125	2	20
Beryllium	<0.00018		0.500	0.486		mg/L		97	75 - 125	5	20
Cadmium	<0.00022		0.500	0.468		mg/L		94	75 - 125	1	20
Calcium	480		25.0	520	4	mg/L		176	75 - 125	0	20
Chromium	<0.0015		0.500	0.472		mg/L		94	75 - 125	1	20
Cobalt	<0.00013		0.500	0.518		mg/L		104	75 - 125	1	20
Lead	<0.00013		0.500	0.519		mg/L		104	75 - 125	1	20
Lithium	0.073		0.500	0.564		mg/L		98	75 - 125	3	20
Molybdenum	0.069		0.500	0.606		mg/L		107	75 - 125	1	20
Selenium	<0.0015		1.00	0.930		mg/L		93	75 - 125	3	20
Thallium	0.00017	J	1.00	1.08		mg/L		108	75 - 125	2	20

Lab Sample ID: 180-118244-1 MSD
Matrix: Water
Analysis Batch: 350667

Client Sample ID: APMW-8
Prep Type: Total Recoverable
Prep Batch: 350248

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	21		1.25	22.3	4	mg/L		88	75 - 125	0	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-349913/1-A
Matrix: Water
Analysis Batch: 350145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/21 16:00	03/20/21 11:24	1

Lab Sample ID: LCS 180-349913/2-A
Matrix: Water
Analysis Batch: 350145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349913

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00256		mg/L		103	80 - 120

Lab Sample ID: 180-118143-3 MS
Matrix: Water
Analysis Batch: 350145

Client Sample ID: APMW-9
Prep Type: Total/NA
Prep Batch: 349913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00013		0.00100	0.000992		mg/L		99	75 - 125

Lab Sample ID: 180-118143-3 MSD
Matrix: Water
Analysis Batch: 350145

Client Sample ID: APMW-9
Prep Type: Total/NA
Prep Batch: 349913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.00101		mg/L		101	75 - 125	2	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

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

Lab Sample ID: MB 180-350083/1-A
Matrix: Water
Analysis Batch: 350431

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/19/21 17:07	03/23/21 12:02	1

Lab Sample ID: LCS 180-350083/2-A
Matrix: Water
Analysis Batch: 350431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00253		mg/L		101	80 - 120

Lab Sample ID: 180-118244-6 MS
Matrix: Water
Analysis Batch: 350431

Client Sample ID: APMW-3D
Prep Type: Total/NA
Prep Batch: 350083

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00013		0.00100	0.00109		mg/L		109	75 - 125

Lab Sample ID: 180-118244-6 MSD
Matrix: Water
Analysis Batch: 350431

Client Sample ID: APMW-3D
Prep Type: Total/NA
Prep Batch: 350083

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.00105		mg/L		105	75 - 125	4	20

Lab Sample ID: MB 180-350147/1-A
Matrix: Water
Analysis Batch: 350625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/20/21 15:14	03/24/21 12:13	1

Lab Sample ID: LCS 180-350147/2-A
Matrix: Water
Analysis Batch: 350625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00248		mg/L		99	80 - 120

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

Lab Sample ID: MB 180-349480/2
Matrix: Water
Analysis Batch: 349480

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	<10		10	10	mg/L			03/15/21 15:25	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

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

Lab Sample ID: LCS 180-349480/1
Matrix: Water
Analysis Batch: 349480

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	457	402		mg/L		88	80 - 120

Lab Sample ID: MB 180-349481/2
Matrix: Water
Analysis Batch: 349481

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	<10		10	10	mg/L			03/15/21 15:56	1

Lab Sample ID: LCS 180-349481/1
Matrix: Water
Analysis Batch: 349481

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	457	422		mg/L		92	80 - 120

Lab Sample ID: 180-118143-10 DU
Matrix: Water
Analysis Batch: 349481

Client Sample ID: APMW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	3600		3940		mg/L		9	10

Lab Sample ID: MB 180-349613/2
Matrix: Water
Analysis Batch: 349613

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	<10		10	10	mg/L			03/16/21 19:42	1

Lab Sample ID: LCS 180-349613/1
Matrix: Water
Analysis Batch: 349613

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	457	446		mg/L		98	80 - 120

Lab Sample ID: 180-118244-4 DU
Matrix: Water
Analysis Batch: 349613

Client Sample ID: APMW-6R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	8800		8040		mg/L		9	10

Lab Sample ID: MB 180-349614/2
Matrix: Water
Analysis Batch: 349614

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	<10		10	10	mg/L			03/16/21 19:42	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

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

Lab Sample ID: LCS 180-349614/1
Matrix: Water
Analysis Batch: 349614

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	457	456		mg/L		100	80 - 120

Lab Sample ID: 180-118244-5 DU
Matrix: Water
Analysis Batch: 349614

Client Sample ID: APMW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	22000		20200		mg/L		9	10

Lab Sample ID: MB 180-349759/2
Matrix: Water
Analysis Batch: 349759

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	<10		10	10	mg/L			03/17/21 19:05	1

Lab Sample ID: LCS 180-349759/1
Matrix: Water
Analysis Batch: 349759

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	457	436		mg/L		95	80 - 120

Lab Sample ID: MB 180-349760/2
Matrix: Water
Analysis Batch: 349760

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	<10		10	10	mg/L			03/17/21 19:08	1

Lab Sample ID: LCS 180-349760/1
Matrix: Water
Analysis Batch: 349760

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	457	440		mg/L		96	80 - 120

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

HPLC/IC

Analysis Batch: 349528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118143-1	APMW-10D	Total/NA	Water	300.0	
180-118143-2	APMW-10	Total/NA	Water	300.0	
180-118143-2	APMW-10	Total/NA	Water	300.0	
180-118143-3	APMW-9	Total/NA	Water	300.0	
180-118143-3	APMW-9	Total/NA	Water	300.0	
180-118143-4	APMW-1R	Total/NA	Water	300.0	
180-118143-4	APMW-1R	Total/NA	Water	300.0	
180-118143-5	APMW-2	Total/NA	Water	300.0	
180-118143-5	APMW-2	Total/NA	Water	300.0	
180-118143-6	APMW-2D	Total/NA	Water	300.0	
180-118143-7	FB-01	Total/NA	Water	300.0	
180-118143-8	EB-01	Total/NA	Water	300.0	
180-118143-9	DUP-01	Total/NA	Water	300.0	
180-118143-9	DUP-01	Total/NA	Water	300.0	
180-118143-10	APMW-13	Total/NA	Water	300.0	
180-118143-10	APMW-13	Total/NA	Water	300.0	
180-118143-11	APMW-14	Total/NA	Water	300.0	
180-118143-11	APMW-14	Total/NA	Water	300.0	
180-118143-12	APMW-15	Total/NA	Water	300.0	
180-118143-12	APMW-15	Total/NA	Water	300.0	
MB 180-349528/53	Method Blank	Total/NA	Water	300.0	
MB 180-349528/6	Method Blank	Total/NA	Water	300.0	
LCS 180-349528/5	Lab Control Sample	Total/NA	Water	300.0	
LCS 180-349528/52	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 349644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118143-13	APMW-16	Total/NA	Water	300.0	
180-118143-13	APMW-16	Total/NA	Water	300.0	
MB 180-349644/6	Method Blank	Total/NA	Water	300.0	
LCS 180-349644/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 349805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-1	APMW-8	Total/NA	Water	300.0	
180-118244-1	APMW-8	Total/NA	Water	300.0	
180-118244-2	APMW-8D	Total/NA	Water	300.0	
180-118244-3	APMW-7	Total/NA	Water	300.0	
180-118244-3	APMW-7	Total/NA	Water	300.0	
180-118244-4	APMW-6R	Total/NA	Water	300.0	
180-118244-4	APMW-6R	Total/NA	Water	300.0	
180-118244-5	APMW-3	Total/NA	Water	300.0	
180-118244-5	APMW-3	Total/NA	Water	300.0	
180-118244-6	APMW-3D	Total/NA	Water	300.0	
180-118244-7	APMW-4	Total/NA	Water	300.0	
180-118244-7	APMW-4	Total/NA	Water	300.0	
180-118244-8	APMW-4D	Total/NA	Water	300.0	
180-118244-8	APMW-4D	Total/NA	Water	300.0	
180-118244-9	APMW-5	Total/NA	Water	300.0	
180-118244-9	APMW-5	Total/NA	Water	300.0	
180-118244-10	APMW-5D	Total/NA	Water	300.0	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

HPLC/IC (Continued)

Analysis Batch: 349805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-17	DUP-02	Total/NA	Water	300.0	
180-118244-18	FB-02	Total/NA	Water	300.0	
180-118244-19	EB-02	Total/NA	Water	300.0	
MB 180-349805/6	Method Blank	Total/NA	Water	300.0	
LCS 180-349805/5	Lab Control Sample	Total/NA	Water	300.0	
180-118244-10 MS	APMW-5D	Total/NA	Water	300.0	
180-118244-10 MSD	APMW-5D	Total/NA	Water	300.0	

Analysis Batch: 349960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-12	APMW-12	Total/NA	Water	300.0	
180-118244-14	DUP-03	Total/NA	Water	300.0	
180-118244-15	FB-03	Total/NA	Water	300.0	
180-118244-16	EB-03	Total/NA	Water	300.0	
MB 180-349960/6	Method Blank	Total/NA	Water	300.0	
LCS 180-349960/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 349964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-11	APMW-6D	Total/NA	Water	300.0	
180-118244-13	APMW-11	Total/NA	Water	300.0	
MB 180-349964/40	Method Blank	Total/NA	Water	300.0	
LCS 180-349964/39	Lab Control Sample	Total/NA	Water	300.0	
180-118244-13 MS	APMW-11	Total/NA	Water	300.0	
180-118244-13 MSD	APMW-11	Total/NA	Water	300.0	

Metals

Prep Batch: 349913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118143-1	APMW-10D	Total/NA	Water	7470A	
180-118143-2	APMW-10	Total/NA	Water	7470A	
180-118143-3	APMW-9	Total/NA	Water	7470A	
180-118143-4	APMW-1R	Total/NA	Water	7470A	
180-118143-5	APMW-2	Total/NA	Water	7470A	
180-118143-6	APMW-2D	Total/NA	Water	7470A	
180-118143-7	FB-01	Total/NA	Water	7470A	
180-118143-8	EB-01	Total/NA	Water	7470A	
180-118143-9	DUP-01	Total/NA	Water	7470A	
180-118143-10	APMW-13	Total/NA	Water	7470A	
180-118143-11	APMW-14	Total/NA	Water	7470A	
180-118143-12	APMW-15	Total/NA	Water	7470A	
180-118143-13	APMW-16	Total/NA	Water	7470A	
MB 180-349913/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-349913/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-118143-3 MS	APMW-9	Total/NA	Water	7470A	
180-118143-3 MSD	APMW-9	Total/NA	Water	7470A	

Prep Batch: 350083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-3	APMW-7	Total/NA	Water	7470A	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Metals (Continued)

Prep Batch: 350083 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-4	APMW-6R	Total/NA	Water	7470A	
180-118244-5	APMW-3	Total/NA	Water	7470A	
180-118244-6	APMW-3D	Total/NA	Water	7470A	
180-118244-7	APMW-4	Total/NA	Water	7470A	
180-118244-8	APMW-4D	Total/NA	Water	7470A	
180-118244-9	APMW-5	Total/NA	Water	7470A	
180-118244-10	APMW-5D	Total/NA	Water	7470A	
180-118244-11	APMW-6D	Total/NA	Water	7470A	
180-118244-12	APMW-12	Total/NA	Water	7470A	
180-118244-13	APMW-11	Total/NA	Water	7470A	
180-118244-14	DUP-03	Total/NA	Water	7470A	
180-118244-15	FB-03	Total/NA	Water	7470A	
180-118244-16	EB-03	Total/NA	Water	7470A	
180-118244-17	DUP-02	Total/NA	Water	7470A	
180-118244-18	FB-02	Total/NA	Water	7470A	
180-118244-19	EB-02	Total/NA	Water	7470A	
MB 180-350083/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-350083/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-118244-6 MS	APMW-3D	Total/NA	Water	7470A	
180-118244-6 MSD	APMW-3D	Total/NA	Water	7470A	

Prep Batch: 350103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118143-1	APMW-10D	Total Recoverable	Water	3005A	
180-118143-2	APMW-10	Total Recoverable	Water	3005A	
180-118143-3	APMW-9	Total Recoverable	Water	3005A	
180-118143-4	APMW-1R	Total Recoverable	Water	3005A	
180-118143-5	APMW-2	Total Recoverable	Water	3005A	
180-118143-6	APMW-2D	Total Recoverable	Water	3005A	
180-118143-7	FB-01	Total Recoverable	Water	3005A	
180-118143-8	EB-01	Total Recoverable	Water	3005A	
180-118143-9	DUP-01	Total Recoverable	Water	3005A	
180-118143-10	APMW-13	Total Recoverable	Water	3005A	
180-118143-11	APMW-14	Total Recoverable	Water	3005A	
180-118143-12	APMW-15	Total Recoverable	Water	3005A	
180-118143-13	APMW-16	Total Recoverable	Water	3005A	
MB 180-350103/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-350103/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-118143-1 MS	APMW-10D	Total Recoverable	Water	3005A	
180-118143-1 MSD	APMW-10D	Total Recoverable	Water	3005A	

Analysis Batch: 350145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118143-1	APMW-10D	Total/NA	Water	EPA 7470A	349913
180-118143-2	APMW-10	Total/NA	Water	EPA 7470A	349913
180-118143-3	APMW-9	Total/NA	Water	EPA 7470A	349913
180-118143-4	APMW-1R	Total/NA	Water	EPA 7470A	349913
180-118143-5	APMW-2	Total/NA	Water	EPA 7470A	349913
180-118143-6	APMW-2D	Total/NA	Water	EPA 7470A	349913
180-118143-7	FB-01	Total/NA	Water	EPA 7470A	349913
180-118143-8	EB-01	Total/NA	Water	EPA 7470A	349913

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Metals (Continued)

Analysis Batch: 350145 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118143-9	DUP-01	Total/NA	Water	EPA 7470A	349913
180-118143-10	APMW-13	Total/NA	Water	EPA 7470A	349913
180-118143-11	APMW-14	Total/NA	Water	EPA 7470A	349913
180-118143-12	APMW-15	Total/NA	Water	EPA 7470A	349913
180-118143-13	APMW-16	Total/NA	Water	EPA 7470A	349913
MB 180-349913/1-A	Method Blank	Total/NA	Water	EPA 7470A	349913
LCS 180-349913/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	349913
180-118143-3 MS	APMW-9	Total/NA	Water	EPA 7470A	349913
180-118143-3 MSD	APMW-9	Total/NA	Water	EPA 7470A	349913

Prep Batch: 350147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-1	APMW-8	Total/NA	Water	7470A	
180-118244-2	APMW-8D	Total/NA	Water	7470A	
MB 180-350147/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-350147/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 350248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-1	APMW-8	Total Recoverable	Water	3005A	
180-118244-2	APMW-8D	Total Recoverable	Water	3005A	
180-118244-3	APMW-7	Total Recoverable	Water	3005A	
180-118244-4	APMW-6R	Total Recoverable	Water	3005A	
180-118244-5	APMW-3	Total Recoverable	Water	3005A	
180-118244-6	APMW-3D	Total Recoverable	Water	3005A	
180-118244-7	APMW-4	Total Recoverable	Water	3005A	
180-118244-8	APMW-4D	Total Recoverable	Water	3005A	
180-118244-9	APMW-5	Total Recoverable	Water	3005A	
180-118244-10	APMW-5D	Total Recoverable	Water	3005A	
180-118244-11	APMW-6D	Total Recoverable	Water	3005A	
180-118244-12	APMW-12	Total Recoverable	Water	3005A	
180-118244-13	APMW-11	Total Recoverable	Water	3005A	
180-118244-14	DUP-03	Total Recoverable	Water	3005A	
180-118244-15	FB-03	Total Recoverable	Water	3005A	
180-118244-16	EB-03	Total Recoverable	Water	3005A	
180-118244-17	DUP-02	Total Recoverable	Water	3005A	
180-118244-18	FB-02	Total Recoverable	Water	3005A	
180-118244-19	EB-02	Total Recoverable	Water	3005A	
MB 180-350248/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-350248/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-118244-1 MS	APMW-8	Total Recoverable	Water	3005A	
180-118244-1 MSD	APMW-8	Total Recoverable	Water	3005A	

Analysis Batch: 350431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-3	APMW-7	Total/NA	Water	EPA 7470A	350083
180-118244-4	APMW-6R	Total/NA	Water	EPA 7470A	350083
180-118244-5	APMW-3	Total/NA	Water	EPA 7470A	350083
180-118244-6	APMW-3D	Total/NA	Water	EPA 7470A	350083
180-118244-7	APMW-4	Total/NA	Water	EPA 7470A	350083
180-118244-8	APMW-4D	Total/NA	Water	EPA 7470A	350083

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Metals (Continued)

Analysis Batch: 350431 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-9	APMW-5	Total/NA	Water	EPA 7470A	350083
180-118244-10	APMW-5D	Total/NA	Water	EPA 7470A	350083
180-118244-11	APMW-6D	Total/NA	Water	EPA 7470A	350083
180-118244-12	APMW-12	Total/NA	Water	EPA 7470A	350083
180-118244-13	APMW-11	Total/NA	Water	EPA 7470A	350083
180-118244-14	DUP-03	Total/NA	Water	EPA 7470A	350083
180-118244-15	FB-03	Total/NA	Water	EPA 7470A	350083
180-118244-16	EB-03	Total/NA	Water	EPA 7470A	350083
180-118244-17	DUP-02	Total/NA	Water	EPA 7470A	350083
180-118244-18	FB-02	Total/NA	Water	EPA 7470A	350083
180-118244-19	EB-02	Total/NA	Water	EPA 7470A	350083
MB 180-350083/1-A	Method Blank	Total/NA	Water	EPA 7470A	350083
LCS 180-350083/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	350083
180-118244-6 MS	APMW-3D	Total/NA	Water	EPA 7470A	350083
180-118244-6 MSD	APMW-3D	Total/NA	Water	EPA 7470A	350083

Analysis Batch: 350467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118143-1	APMW-10D	Total Recoverable	Water	EPA 6020B	350103
180-118143-2	APMW-10	Total Recoverable	Water	EPA 6020B	350103
180-118143-3	APMW-9	Total Recoverable	Water	EPA 6020B	350103
180-118143-4	APMW-1R	Total Recoverable	Water	EPA 6020B	350103
180-118143-5	APMW-2	Total Recoverable	Water	EPA 6020B	350103
180-118143-6	APMW-2D	Total Recoverable	Water	EPA 6020B	350103
180-118143-7	FB-01	Total Recoverable	Water	EPA 6020B	350103
180-118143-8	EB-01	Total Recoverable	Water	EPA 6020B	350103
180-118143-9	DUP-01	Total Recoverable	Water	EPA 6020B	350103
180-118143-10	APMW-13	Total Recoverable	Water	EPA 6020B	350103
180-118143-11	APMW-14	Total Recoverable	Water	EPA 6020B	350103
180-118143-12	APMW-15	Total Recoverable	Water	EPA 6020B	350103
180-118143-13	APMW-16	Total Recoverable	Water	EPA 6020B	350103
MB 180-350103/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	350103
LCS 180-350103/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	350103
180-118143-1 MS	APMW-10D	Total Recoverable	Water	EPA 6020B	350103
180-118143-1 MSD	APMW-10D	Total Recoverable	Water	EPA 6020B	350103

Analysis Batch: 350556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-1	APMW-8	Total Recoverable	Water	EPA 6020B	350248
180-118244-2	APMW-8D	Total Recoverable	Water	EPA 6020B	350248
180-118244-3	APMW-7	Total Recoverable	Water	EPA 6020B	350248
180-118244-4	APMW-6R	Total Recoverable	Water	EPA 6020B	350248
180-118244-5	APMW-3	Total Recoverable	Water	EPA 6020B	350248
180-118244-6	APMW-3D	Total Recoverable	Water	EPA 6020B	350248
180-118244-7	APMW-4	Total Recoverable	Water	EPA 6020B	350248
180-118244-8	APMW-4D	Total Recoverable	Water	EPA 6020B	350248
180-118244-9	APMW-5	Total Recoverable	Water	EPA 6020B	350248
180-118244-10	APMW-5D	Total Recoverable	Water	EPA 6020B	350248
180-118244-11	APMW-6D	Total Recoverable	Water	EPA 6020B	350248
180-118244-12	APMW-12	Total Recoverable	Water	EPA 6020B	350248
180-118244-13	APMW-11	Total Recoverable	Water	EPA 6020B	350248

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

Metals (Continued)

Analysis Batch: 350556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-14	DUP-03	Total Recoverable	Water	EPA 6020B	350248
180-118244-15	FB-03	Total Recoverable	Water	EPA 6020B	350248
180-118244-16	EB-03	Total Recoverable	Water	EPA 6020B	350248
180-118244-17	DUP-02	Total Recoverable	Water	EPA 6020B	350248
180-118244-18	FB-02	Total Recoverable	Water	EPA 6020B	350248
180-118244-19	EB-02	Total Recoverable	Water	EPA 6020B	350248
MB 180-350248/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	350248
LCS 180-350248/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	350248
180-118244-1 MS	APMW-8	Total Recoverable	Water	EPA 6020B	350248
180-118244-1 MSD	APMW-8	Total Recoverable	Water	EPA 6020B	350248

Analysis Batch: 350625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-1	APMW-8	Total/NA	Water	EPA 7470A	350147
180-118244-2	APMW-8D	Total/NA	Water	EPA 7470A	350147
MB 180-350147/1-A	Method Blank	Total/NA	Water	EPA 7470A	350147
LCS 180-350147/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	350147

Analysis Batch: 350667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-1	APMW-8	Total Recoverable	Water	EPA 6020B	350248
180-118244-2	APMW-8D	Total Recoverable	Water	EPA 6020B	350248
180-118244-3	APMW-7	Total Recoverable	Water	EPA 6020B	350248
MB 180-350248/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	350248
LCS 180-350248/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	350248
180-118244-1 MS	APMW-8	Total Recoverable	Water	EPA 6020B	350248
180-118244-1 MSD	APMW-8	Total Recoverable	Water	EPA 6020B	350248

Analysis Batch: 350737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-4	APMW-6R	Total Recoverable	Water	EPA 6020B	350248
180-118244-5	APMW-3	Total Recoverable	Water	EPA 6020B	350248
180-118244-6	APMW-3D	Total Recoverable	Water	EPA 6020B	350248
180-118244-7	APMW-4	Total Recoverable	Water	EPA 6020B	350248
180-118244-8	APMW-4D	Total Recoverable	Water	EPA 6020B	350248
180-118244-9	APMW-5	Total Recoverable	Water	EPA 6020B	350248
180-118244-10	APMW-5D	Total Recoverable	Water	EPA 6020B	350248
180-118244-11	APMW-6D	Total Recoverable	Water	EPA 6020B	350248
180-118244-12	APMW-12	Total Recoverable	Water	EPA 6020B	350248
180-118244-13	APMW-11	Total Recoverable	Water	EPA 6020B	350248

General Chemistry

Analysis Batch: 349480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118143-11	APMW-14	Total/NA	Water	SM 2540C	
180-118143-12	APMW-15	Total/NA	Water	SM 2540C	
MB 180-349480/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349480/1	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

General Chemistry

Analysis Batch: 349481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118143-1	APMW-10D	Total/NA	Water	SM 2540C	
180-118143-2	APMW-10	Total/NA	Water	SM 2540C	
180-118143-3	APMW-9	Total/NA	Water	SM 2540C	
180-118143-4	APMW-1R	Total/NA	Water	SM 2540C	
180-118143-5	APMW-2	Total/NA	Water	SM 2540C	
180-118143-6	APMW-2D	Total/NA	Water	SM 2540C	
180-118143-7	FB-01	Total/NA	Water	SM 2540C	
180-118143-8	EB-01	Total/NA	Water	SM 2540C	
180-118143-9	DUP-01	Total/NA	Water	SM 2540C	
180-118143-10	APMW-13	Total/NA	Water	SM 2540C	
180-118143-13	APMW-16	Total/NA	Water	SM 2540C	
MB 180-349481/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349481/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-118143-10 DU	APMW-13	Total/NA	Water	SM 2540C	

Analysis Batch: 349613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-2	APMW-8D	Total/NA	Water	SM 2540C	
180-118244-3	APMW-7	Total/NA	Water	SM 2540C	
180-118244-4	APMW-6R	Total/NA	Water	SM 2540C	
180-118244-7	APMW-4	Total/NA	Water	SM 2540C	
180-118244-8	APMW-4D	Total/NA	Water	SM 2540C	
180-118244-9	APMW-5	Total/NA	Water	SM 2540C	
180-118244-10	APMW-5D	Total/NA	Water	SM 2540C	
180-118244-17	DUP-02	Total/NA	Water	SM 2540C	
180-118244-18	FB-02	Total/NA	Water	SM 2540C	
180-118244-19	EB-02	Total/NA	Water	SM 2540C	
MB 180-349613/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349613/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-118244-4 DU	APMW-6R	Total/NA	Water	SM 2540C	

Analysis Batch: 349614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-1	APMW-8	Total/NA	Water	SM 2540C	
180-118244-5	APMW-3	Total/NA	Water	SM 2540C	
180-118244-6	APMW-3D	Total/NA	Water	SM 2540C	
MB 180-349614/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349614/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-118244-5 DU	APMW-3	Total/NA	Water	SM 2540C	

Analysis Batch: 349759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-13	APMW-11	Total/NA	Water	SM 2540C	
180-118244-14	DUP-03	Total/NA	Water	SM 2540C	
180-118244-15	FB-03	Total/NA	Water	SM 2540C	
180-118244-16	EB-03	Total/NA	Water	SM 2540C	
MB 180-349759/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349759/1	Lab Control Sample	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-1

General Chemistry

Analysis Batch: 349760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-11	APMW-6D	Total/NA	Water	SM 2540C	
180-118244-12	APMW-12	Total/NA	Water	SM 2540C	
MB 180-349760/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349760/1	Lab Control Sample	Total/NA	Water	SM 2540C	

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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
L - EDA
Z - other (specify)

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:

Total Number of Containers

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: *Matthew Watson* Date/Time: *5-10-21* Company: *EMPH*

Received by: *900* Date/Time: Date/Time: Company: Company

Cooler Temperature(s) °C and Other Remarks:

Sampler: *Brett Suckers* Lab PM: *Brown, Shali*

Phone: *850 380 3456* E-Mail: *shali.brown@eurofinset.com*

Due Date Requested:

TAT Requested (days):

PO #: *SCS10382606*

WO #:

Project #: *18020186*

SSOW#:

Address: *3535 Colonnade Pkwy Bin S 530 EC*

City: *Birmingham*

State, Zip: *AL, 35243*

Phone: *205-992-6283*

Email: *SCS Contacts*

Project Name: *Plant Watson*

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)

Preservation Code

Field Filtered Sample (Yes or No)

2540C Total Dissolved Solids

300_28Day Chloride Fluoride Sulfate

6020B/7470 Custom 14 (AppII/AppIV) + Mercury

9315_Ra226 Radium 226

9320_Ra228 Radium 228

Combined RAD

Special Instructions/Note:

180-118143 Chain of Custody

Possible Hazard Identification

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

Empty Kit Relinquished by:

Relinquished by: *DS* Date/Time: *5/9/21 1300* Company: *EMPH*

Relinquished by:

Relinquished by:

Custody Seals Intact: Yes No

Custody Seal No.:

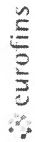
Page 61 of 70

3/25/2021

Ver: 01/16/2019

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Environment Testing
 America

244-ATLANTA

Carrier Tracking No(s):

COG No:

Page:

Client Information

Company: SCS
 Address: 3535 Colonnade Pkwy Bin S 530 EC
 City: Birmingham
 State, Zip: AL, 35243
 Phone: 205-992-6283
 Email: SCS Contacts
 Project Name: Plant Watson
 Site: Ash Pond

Lab PM: Brown, Shali

Phone: 850 380 3458
 E-Mail: shali.brown@eurofinset.com

Job #:

Due Date Requested:
 TAT Requested (days):
 PO #:
 SCS:10382606
 WO #:
 Project #:
 18020186
 SSOV#:

Analysis Requested

Analysis Requested	Field Filtered Sample (Yes or No)	2540C Total Dissolved Solids	300_28Day Chloride Fluoride Sulfate	6020B/7470 Custom 14 (Appl/APPV) + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Total Number of Containers
		X	X	X	X	X	X	
		X	X	X	X	X	X	

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 - Na2S2O3
- S - H2SO4
- T - TSP Dodecahydrate
- U - Acetone
- V - MCAA
- W - pH 4.5
- Z - other (specify)

Sample Identification

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, BT=tissue, A=air)	Special Instructions/Note:
APMLJ-15	3/8/21	1455	G		
APMLJ-16	3/8/21	1330	G		

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:

Empty Kit Relinquished by:

Relinquished by: [Signature]
 Date: 3/9/21 1300
 Company: PDH
 Relinquished by: [Signature]
 Date/Time: 3/9/21 9:00
 Company: [Signature]
 Relinquished by: [Signature]
 Date/Time: [Signature]
 Company: [Signature]

Custody Seals Intact:

Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks:



Client Information Client Contact: <u>Philip E. Brett S.</u> SCS Contacts: <u>850-336-0192</u> Lab PM: <u>Brown, Shali</u> E-Mail: <u>shali.brown@eurofinset.com</u>		Due Date Requested: TAT Requested (days): PO #: <u>SCS10382606</u> WO #: Project #: <u>18020186</u> SCS Contacts: Project Name: <u>Plant Watson</u> Site: <u>Ash Pond</u>	
Address: <u>3535 Colonnade Pkwy Bin S 530 EC</u> City: <u>Birmingham</u> State, Zip: <u>AL, 35243</u> Phone: <u>205-992-6283</u> Email: <u>SCS10382606</u>		Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air) Sample Type (C=comp, G=grab) Preservation Code	
Sample Identification	Sample Date	Sample Time	Matrix
<u>APMW-8</u>	<u>3/9/21</u>	<u>0859</u>	<u>W</u>
<u>APMW-8D</u>	<u>3/9/21</u>	<u>0940</u>	
<u>APMW-7</u>	<u>3/9/21</u>	<u>1101</u>	
<u>APMW-6R</u>	<u>3/9/21</u>	<u>1208</u>	
<u>APMW-3</u>	<u>3/9/21</u>	<u>0750</u>	
<u>APMW-3D</u>	<u>3/9/21</u>	<u>0840</u>	
<u>APMW-4</u>	<u>3/9/21</u>	<u>1045</u>	
<u>APMW-4D</u>	<u>3/9/21</u>	<u>0945</u>	
<u>APMW-5</u>	<u>3/9/21</u>	<u>1200</u>	
<u>APMW-5D</u>	<u>3/9/21</u>	<u>1735</u>	
<u>APMW-6D</u>	<u>3/10/21</u>	<u>0730</u>	<u>W</u>
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 Reinquished by: <u>[Signature]</u> Date: <u>3/10/21</u> Time: <u>0900</u> Company: <u>PPH</u>			
Reinquished by: <u>[Signature]</u> Date/Time: <u>3/10/21 0900</u> Company: <u>Company</u>			
Reinquished by: <u>[Signature]</u> Date/Time: <u>3/10/21 0900</u> Company: <u>Company</u>			
Reinquished by: <u>[Signature]</u> Date/Time: <u>3/10/21 0900</u> Company: <u>Company</u>			
Custody Seals Intact: <u>Δ Yes Δ No</u> Custody Seal No.:			



Chain of Custody Record

Client Information		Sampler: <u>Brett S. / Philip E.</u>		Lab PM: <u>Brown, Shali</u>	
Client Contact: SCS Contacts		Phone: <u>850-336-0192</u>		E-Mail: <u>shali.brown@eurofinset.com</u>	
Company: SCS		Due Date Requested:		Analysis Requested	
Address: 3535 Colonnade Pkwy Bin S 530 EC		TAT Requested (days):		9320_Ra228 Radium 228	
City: Birmingham		PO #:		9315_Ra226 Radium 226	
State, Zip: AL, 35243		SCS10382606		6020B/7470 Custom 14 (Appl/Al/APPV) + Mercury	
Phone: 205-992-6283		WO #:		300_28Day Chloride Fluoride Sulfate	
Email: SCS Contacts		Project #:		2540C Total Dissolved Solids	
Project Name: Plant Watson		18020186		Field Filtered Sample (Yes or No)	
Site: Ash Pond		SSOW#:		Total Number of Containers	
Sample Identification		Sample Date		Sample Time	
APMW-12		3/10/21		0658	
APMW-11		3/10/21		0739	
DUP-03		3/10/21		0659	
FB-03		3/10/21		0730	
EB-03		3/10/21		0650	
Matrix (W=water, S=solid, O=wastewat, BT=Tissue, A=Air)		Sample Type (C=comp, G=grab)		Preservation Code:	
water		G		M - Hexane	
water		G		N - None	
water		G		O - As/NaO2	
water		G		P - Na2O4S	
water		G		Q - Na2SO3	
water		G		R - Na2SO3	
water		G		S - H2SO4	
water		G		T - TSP Dodecahydrate	
water		G		U - Acetone	
water		G		V - MCAA	
water		G		W - pH 4-5	
water		G		Z - other (specify)	
Other:		Special Instructions/Note:		Special Instructions/Note:	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		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		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months		Special Instructions/Note:	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:		Special Instructions/Note:	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by:		3/10/21		Received by: <u>Shelli Watson</u>	
Relinquished by:		0900		Date/Time: <u>3-11-21</u>	
Relinquished by:				Date/Time: <u>845</u>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Company: <u>EAH</u>	





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Uncorrected temp Thermometer ID

CF Initials

PT-WI-SR-001 effective 11/8/18

2-5
19

XH AGCA

TRK# 7845 5062 8606 0201

1 of 3

WED - 10 MAR 4:30P

STANDARD OVERNIGHT

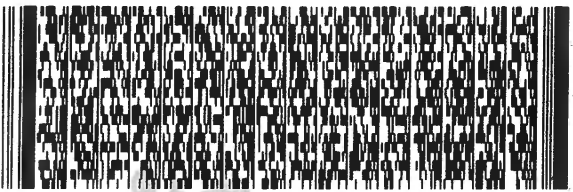
AHS

15238

PA-US PIT

MASTER

FedEx Express



AN1001101211212

301 ALPHA DR
RIPC PARK
PITTSBURGH PA 15238

REF: (412) 963-7068

DEPT: 101

TO EUROFINIS TEST AMERICA PA

ORIGIN ID: B1XA (850) 380-3458
BRETT SURLS
1636 EAGLE ST
CANTONMENT, FL 32533
UNITED STATES US

SHIP DATE: 09MAR21
ACTWGT: 59.35 LB
CAD: 6993799/55FE2121
DIMS: 24x13x14 IN
BILL CREDIT CARD

Company Dept./Floor/Suite/Ho.c.m

Recipient's Name *Please print*

Phone Number

Do Not Lift Using This Tag



180-118143 Waybill

Part # 156297-485 340000/REP/05/1/22

Do Not Lift Using This Tag

Recipient's Name <i>Please print.</i>	Phone Number
Company	()
Dept./Floor/Suite/Room	

Part # 156297-78478000001/22

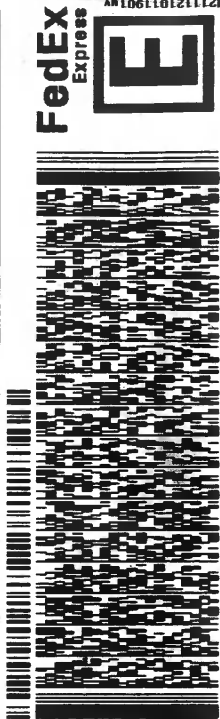
ORIGIN ID: BIXA (850) 380-3458
 BRETT SURLES
 1636 EAGLE ST
 CANTONMENT, FL 32533
 UNITED STATES US

SHIP DATE: 08MAR21
 ACTWGT: 53.66 LB
 CAD: 698789/55E2121
 DIMS: 24x13x14 IN
 BILL CREDIT CARD

TO EUROFINS TEST AMERICA PA

301 ALPHA DR
 RIDC PARK
 PITTSBURGH PA 15238

(412) 968-7058 REF1
 INVT 201 DEPT1



MPS# 7845 5062 8628 0263
 Metr# 7845 5062 8606 0201

3 of 3
 WED - 10 MAR 4:30P
 STANDARD OVERNIGHT
 AHS 15238
 PA-US PIT

XH AGCA

Uncorrected temp
 Thermometer ID 16
 CF 0 Initials Y

PT-WI-SR-001 effective 11/8/18

Part # 156297-78478000001/22

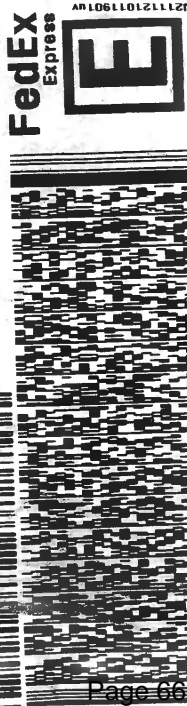
ORIGIN ID: BIXA (850) 380-3458
 BRETT SURLES
 1636 EAGLE ST
 CANTONMENT, FL 32533
 UNITED STATES US

SHIP DATE: 08MAR21
 ACTWGT: 53.70 LB
 CAD: 698789/55E2121
 DIMS: 24x13x14 IN
 BILL CREDIT CARD

EUROFINS TEST AMERICA PA

301 ALPHA DR
 RIDC PARK
 PITTSBURGH PA 15238

(412) 968-7058 REF1
 INVT 201 DEPT1



MPS# 7845 5062 8617 0263
 Metr# 7845 5062 8606 0201

2 of 3
 WED - 10 MAR 4:30P
 STANDARD OVERNIGHT
 AHS 15238
 PA-US PIT

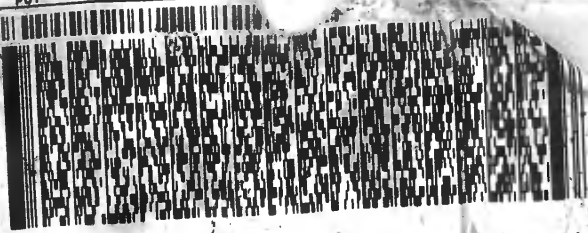
XH AGCA

Uncorrected temp
 Thermometer ID 22
 CF 0 Initials Y

PT-WI-SR-001 effective 11/8/18

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(412) 963-7000
INVT
PQ1



3 of 4
MPS# 7845 7874 5410
0263
Mstr# 7845 7874 5394

THU - 11 MAR 10:30A
PRIORITY OVERNIGHT

ORIGIN ID
RICK HAGE
5720 DOVE
MILTON, PA
UNITED STA
TO TEST
301 AL
PITTS

XH AGCA
Uncorrected temp
Thermometer ID

2.8 °C
14

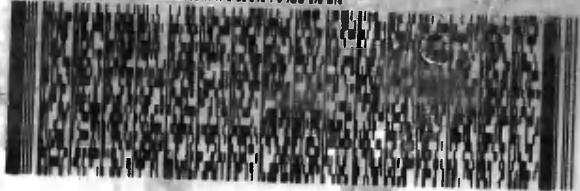
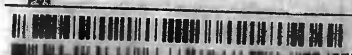
15238
PA-US PIT

CF _____ Initials _____
PT-WI-SR-001 effective 11/8/18



(412) 963-7068
INVT
PQ1

REF:



FedEx
Express



4211121011000

1 of 4
TRK# 7845 7874 5394
0201
MASTER

THU - 11 MAR 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238
PA-US PIT

Uncorrected temp 3.7 °C
Thermometer ID 14
CF 0 Initials ly
PT-WI-SR-001 effective 11/8/18



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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118143-1

Login Number: 118143

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118143-1

Login Number: 118244

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-118143-2

Client Project/Site: Plant Watson Ash Pond

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
4/14/2021 5:46:56 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through
TotalAccess

Have a Question?



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www.eurofinsus.com/Env

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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Job ID: 180-118143-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-118143-2

Comments

No additional comments.

Receipt

The samples were received on 3/10/2021 9:00 AM and 3/11/2021 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 1.6° C, 2.2° C, 2.5° C, 2.5° C, 3.7° C, 3.9° C and 4.1° C.

Receipt Exceptions

The following samples were submitted for analysis; however, they were not listed on the Chain-of-Custody (COC): DUP-02 (180-118244-17), FB-02 (180-118244-18) and EB-02 (180-118244-19)

RAD

Method 9315: 9315 prep batch 502091

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-10D (180-118143-1), APMW-10 (180-118143-2), APMW-9 (180-118143-3), APMW-1R (180-118143-4), APMW-2 (180-118143-5), APMW-2D (180-118143-6), FB-01 (180-118143-7), EB-01 (180-118143-8), DUP-01 (180-118143-9), APMW-13 (180-118143-10), APMW-14 (180-118143-11), APMW-15 (180-118143-12), APMW-16 (180-118143-13), (LCS 160-502091/1-A), (LCSD 160-502091/2-A) and (MB 160-502091/20-A)

Method 9315: Radium-226 Batch 160-502454

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

APMW-8 (180-118244-1), APMW-8D (180-118244-2), APMW-7 (180-118244-3), APMW-6R (180-118244-4), APMW-3 (180-118244-5), APMW-3D (180-118244-6), APMW-4 (180-118244-7), APMW-4D (180-118244-8), APMW-5 (180-118244-9), APMW-5D (180-118244-10), APMW-6D (180-118244-11), APMW-12 (180-118244-12), APMW-11 (180-118244-13), DUP-03 (180-118244-14), FB-03 (180-118244-15), EB-03 (180-118244-16), DUP-02 (180-118244-17), (LCS 160-502454/1-A), (LCSD 160-502454/2-A) and (MB 160-502454/20-A)

Methods 903.0, 9315: Radium-226 batch 502505

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

FB-02 (180-118244-18), EB-02 (180-118244-19), (LCS 160-502505/1-A), (LCSD 160-502505/2-A) and (MB 160-502505/23-A)

Method 9320: Radium-228 Batch 160-502092

The LCS recovered at 131% for Radium-228 Batch 160-502092. The limits in our LIMS system at (75-125%) reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (61-138%) per method requirements. The LCS passes. No further action is required.

Method 9320: Radium-228 Batch 160-502092

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

APMW-10D (180-118143-1), APMW-10 (180-118143-2), APMW-9 (180-118143-3), APMW-1R (180-118143-4), APMW-2 (180-118143-5), APMW-2D (180-118143-6), FB-01 (180-118143-7), EB-01 (180-118143-8), DUP-01 (180-118143-9), APMW-13 (180-118143-10), APMW-14 (180-118143-11), APMW-15 (180-118143-12), APMW-16 (180-118143-13), (LCS 160-502092/1-A), (LCSD 160-502092/2-A) and (MB

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Job ID: 180-118143-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

160-502092/20-A)

Method 9320: 9320 Prep Batch 160-502458

The following sample(s) exhibited a negative result greater in magnitude than the 3 sigma TPU. This occurrence was evaluated and determined to be random in nature. Sporadic occurrences such as this are statistically expected. No further action is required. APMW-8D (180-118244-2)

Method 9320: 9320 prep batch 502458

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-8 (180-118244-1), APMW-8D (180-118244-2), APMW-7 (180-118244-3), APMW-6R (180-118244-4), APMW-3 (180-118244-5), APMW-3D (180-118244-6), APMW-4 (180-118244-7), APMW-4D (180-118244-8), APMW-5 (180-118244-9), APMW-5D (180-118244-10), APMW-6D (180-118244-11), APMW-12 (180-118244-12), APMW-11 (180-118244-13), DUP-03 (180-118244-14), FB-03 (180-118244-15), EB-03 (180-118244-16), DUP-02 (180-118244-17), (LCS 160-502458/1-A), (LCSD 160-502458/2-A) and (MB 160-502458/20-A)

Methods 904.0, 9320: Radium-228 batch 502508

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. FB-02 (180-118244-18), EB-02 (180-118244-19), (LCS 160-502508/1-A), (LCSD 160-502508/2-A) and (MB 160-502508/23-A)

Method PrecSep_0: Radium 228 Prep Batch 160-502092:

The following samples were prepared at a reduced aliquot due to [describe sample]: APMW-15 (180-118143-12) and APMW-16 (180-118143-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision. Samples 180-118143-12 and 180-118143-13 were yellow in appearance and produced a strong odor. Sample 240-145656-1 was cloudy. Sample 240-145656-4 was brown and cloudy.

Method PrecSep_0: Radium 228 Prep Batch 160-502092:

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-10D (180-118143-1), APMW-10 (180-118143-2), APMW-9 (180-118143-3), APMW-1R (180-118143-4), APMW-2 (180-118143-5), APMW-2D (180-118143-6), FB-01 (180-118143-7), EB-01 (180-118143-8), DUP-01 (180-118143-9), APMW-13 (180-118143-10) and APMW-14 (180-118143-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-502458:

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-8 (180-118244-1), APMW-8D (180-118244-2), APMW-6R (180-118244-4), APMW-3 (180-118244-5), APMW-3D (180-118244-6), APMW-5 (180-118244-9), APMW-5D (180-118244-10), APMW-6D (180-118244-11), APMW-12 (180-118244-12), APMW-11 (180-118244-13), DUP-03 (180-118244-14), FB-03 (180-118244-15), EB-03 (180-118244-16) and DUP-02 (180-118244-17). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-502458:

The following samples were prepared at a reduced aliquot due to matrix: APMW-7 (180-118244-3), APMW-4 (180-118244-7) and APMW-4D (180-118244-8). 180-118244-3 was yellow and 180-118244-7 and 180-118244-8 were yellow and produced a strong odor. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch: 160-502458:

During the in-growth process, APMW-7 (180-118244-3) and APMW-5D (180-118244-10) needed to be filtered due to sediment present in the sample. This is an indicator of matrix interference.

Method PrecSep_0: Radium 228 Prep Batch 160-502508:

Insufficient sample volume was available to perform a sample duplicate for the following samples: FB-02 (180-118244-18) and EB-02 (180-118244-19). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Job ID: 180-118143-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-502091:

The following samples were prepared at a reduced aliquot due to [describe sample]: APMW-15 (180-118143-12) and APMW-16 (180-118143-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision. Samples 180-118143-12 and 180-118143-13 were yellow in appearance and produced a strong odor. Sample 240-145656-1 was cloudy. Sample 240-145656-4 was brown and cloudy.

Method PrecSep-21: Radium 226 Prep Batch 160-502091:

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-10D (180-118143-1), APMW-10 (180-118143-2), APMW-9 (180-118143-3), APMW-1R (180-118143-4), APMW-2 (180-118143-5), APMW-2D (180-118143-6), FB-01 (180-118143-7), EB-01 (180-118143-8), DUP-01 (180-118143-9), APMW-13 (180-118143-10) and APMW-14 (180-118143-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-502454:

Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-8 (180-118244-1), APMW-8D (180-118244-2), APMW-6R (180-118244-4), APMW-3 (180-118244-5), APMW-3D (180-118244-6), APMW-5 (180-118244-9), APMW-5D (180-118244-10), APMW-6D (180-118244-11), APMW-12 (180-118244-12), APMW-11 (180-118244-13), DUP-03 (180-118244-14), FB-03 (180-118244-15), EB-03 (180-118244-16) and DUP-02 (180-118244-17). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-502454:

The following samples were prepared at a reduced aliquot due to matrix: APMW-7 (180-118244-3), APMW-4 (180-118244-7) and APMW-4D (180-118244-8). 180-118244-3 was yellow and 180-118244-7 and 180-118244-8 were yellow and produced a strong odor. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch: 160-502454:

During the in-growth process, APMW-7 (180-118244-3) and APMW-5D (180-118244-10) needed to be filtered due to sediment present in the sample. This is an indicator of matrix interference.

Method PrecSep-21: Radium 226 Prep Batch 160-502505:

Insufficient sample volume was available to perform a sample duplicate for the following samples: FB-02 (180-118244-18) and EB-02 (180-118244-19). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Qualifiers

Rad

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21 *
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-21
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	01-01-22
Louisiana	NELAP	04080	06-30-21
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-21
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-21

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-118143-1	APMW-10D	Water	03/08/21 12:32	03/10/21 09:00	
180-118143-2	APMW-10	Water	03/08/21 13:18	03/10/21 09:00	
180-118143-3	APMW-9	Water	03/08/21 14:14	03/10/21 09:00	
180-118143-4	APMW-1R	Water	03/08/21 12:45	03/10/21 09:00	
180-118143-5	APMW-2	Water	03/08/21 13:55	03/10/21 09:00	
180-118143-6	APMW-2D	Water	03/08/21 18:15	03/10/21 09:00	
180-118143-7	FB-01	Water	03/08/21 17:45	03/10/21 09:00	
180-118143-8	EB-01	Water	03/08/21 14:15	03/10/21 09:00	
180-118143-9	DUP-01	Water	03/08/21 11:45	03/10/21 09:00	
180-118143-10	APMW-13	Water	03/08/21 17:00	03/10/21 09:00	
180-118143-11	APMW-14	Water	03/08/21 11:40	03/10/21 09:00	
180-118143-12	APMW-15	Water	03/08/21 14:55	03/10/21 09:00	
180-118143-13	APMW-16	Water	03/08/21 13:30	03/10/21 09:00	
180-118244-1	APMW-8	Water	03/09/21 08:59	03/11/21 08:45	
180-118244-2	APMW-8D	Water	03/09/21 09:40	03/11/21 08:45	
180-118244-3	APMW-7	Water	03/09/21 11:01	03/11/21 08:45	
180-118244-4	APMW-6R	Water	03/09/21 12:08	03/11/21 08:45	
180-118244-5	APMW-3	Water	03/09/21 07:50	03/11/21 08:45	
180-118244-6	APMW-3D	Water	03/09/21 08:40	03/11/21 08:45	
180-118244-7	APMW-4	Water	03/09/21 10:45	03/11/21 08:45	
180-118244-8	APMW-4D	Water	03/09/21 09:45	03/11/21 08:45	
180-118244-9	APMW-5	Water	03/09/21 12:00	03/11/21 08:45	
180-118244-10	APMW-5D	Water	03/09/21 17:35	03/11/21 08:45	
180-118244-11	APMW-6D	Water	03/10/21 07:30	03/11/21 08:45	
180-118244-12	APMW-12	Water	03/10/21 06:58	03/11/21 08:45	
180-118244-13	APMW-11	Water	03/10/21 07:39	03/11/21 08:45	
180-118244-14	DUP-03	Water	03/10/21 06:39	03/11/21 08:45	
180-118244-15	FB-03	Water	03/10/21 07:30	03/11/21 08:45	
180-118244-16	EB-03	Water	03/10/21 06:50	03/11/21 08:45	
180-118244-17	DUP-02	Water	03/09/21 07:40	03/11/21 08:45	
180-118244-18	FB-02	Water	03/09/21 11:50	03/11/21 08:45	
180-118244-19	EB-02	Water	03/09/21 08:08	03/11/21 08:45	

Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

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
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

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

Laboratory References:

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



Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-10D

Lab Sample ID: 180-118143-1

Date Collected: 03/08/21 12:32

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.01 mL	1.0 g	502091	03/16/21 18:03	JEC	TAL SL
Total/NA	Analysis	9315		1			504967	04/08/21 10:24	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.01 mL	1.0 g	502092	03/16/21 18:47	JEC	TAL SL
Total/NA	Analysis	9320		1			502827	03/23/21 12:59	AK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505209	04/09/21 13:16	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10

Lab Sample ID: 180-118143-2

Date Collected: 03/08/21 13:18

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.65 mL	1.0 g	502091	03/16/21 18:03	JEC	TAL SL
Total/NA	Analysis	9315		1			504967	04/08/21 10:24	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.65 mL	1.0 g	502092	03/16/21 18:47	JEC	TAL SL
Total/NA	Analysis	9320		1			502827	03/23/21 13:00	AK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505209	04/09/21 13:16	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-9

Lab Sample ID: 180-118143-3

Date Collected: 03/08/21 14:14

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.46 mL	1.0 g	502091	03/16/21 18:03	JEC	TAL SL
Total/NA	Analysis	9315		1			504967	04/08/21 10:24	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.46 mL	1.0 g	502092	03/16/21 18:47	JEC	TAL SL
Total/NA	Analysis	9320		1			502827	03/23/21 13:00	AK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505209	04/09/21 13:16	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-1R

Lab Sample ID: 180-118143-4

Date Collected: 03/08/21 12:45

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.11 mL	1.0 g	502091	03/16/21 18:03	JEC	TAL SL
Total/NA	Analysis	9315		1			504967	04/08/21 10:24	ANW	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-1R

Lab Sample ID: 180-118143-4

Date Collected: 03/08/21 12:45

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.11 mL	1.0 g	502092	03/16/21 18:47	JEC	TAL SL
Total/NA	Analysis	9320		1			502827	03/23/21 13:00	AK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505209	04/09/21 13:16	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2

Lab Sample ID: 180-118143-5

Date Collected: 03/08/21 13:55

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.28 mL	1.0 g	502091	03/16/21 18:03	JEC	TAL SL
Total/NA	Analysis	9315		1			504967	04/08/21 10:25	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.28 mL	1.0 g	502092	03/16/21 18:47	JEC	TAL SL
Total/NA	Analysis	9320		1			502827	03/23/21 13:00	AK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505209	04/09/21 13:16	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2D

Lab Sample ID: 180-118143-6

Date Collected: 03/08/21 18:15

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.68 mL	1.0 g	502091	03/16/21 18:03	JEC	TAL SL
Total/NA	Analysis	9315		1			504967	04/08/21 10:21	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.68 mL	1.0 g	502092	03/16/21 18:47	JEC	TAL SL
Total/NA	Analysis	9320		1			502827	03/23/21 13:01	AK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505209	04/09/21 13:16	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-01

Lab Sample ID: 180-118143-7

Date Collected: 03/08/21 17:45

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.71 mL	1.0 g	502091	03/16/21 18:03	JEC	TAL SL
Total/NA	Analysis	9315		1			504967	04/08/21 10:21	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.71 mL	1.0 g	502092	03/16/21 18:47	JEC	TAL SL
Total/NA	Analysis	9320		1			502827	03/23/21 13:01	AK	TAL SL
Instrument ID: GFPCORANGE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: FB-01
Date Collected: 03/08/21 17:45
Date Received: 03/10/21 09:00

Lab Sample ID: 180-118143-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			505209	04/09/21 13:16	SCB	TAL SL

Client Sample ID: EB-01
Date Collected: 03/08/21 14:15
Date Received: 03/10/21 09:00

Lab Sample ID: 180-118143-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.71 mL	1.0 g	502091	03/16/21 18:03	JEC	TAL SL
Total/NA	Analysis	9315		1			504967	04/08/21 10:21	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.71 mL	1.0 g	502092	03/16/21 18:47	JEC	TAL SL
Total/NA	Analysis	9320		1			502827	03/23/21 13:01	AK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505209	04/09/21 13:16	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01
Date Collected: 03/08/21 11:45
Date Received: 03/10/21 09:00

Lab Sample ID: 180-118143-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.63 mL	1.0 g	502091	03/16/21 18:03	JEC	TAL SL
Total/NA	Analysis	9315		1			504967	04/08/21 10:21	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.63 mL	1.0 g	502092	03/16/21 18:47	JEC	TAL SL
Total/NA	Analysis	9320		1			502827	03/23/21 13:01	AK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505209	04/09/21 13:16	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-13
Date Collected: 03/08/21 17:00
Date Received: 03/10/21 09:00

Lab Sample ID: 180-118143-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.67 mL	1.0 g	502091	03/16/21 18:03	JEC	TAL SL
Total/NA	Analysis	9315		1			504967	04/08/21 10:22	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.67 mL	1.0 g	502092	03/16/21 18:47	JEC	TAL SL
Total/NA	Analysis	9320		1			502827	03/23/21 13:02	AK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505209	04/09/21 13:16	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-14

Lab Sample ID: 180-118143-11

Date Collected: 03/08/21 11:40

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.45 mL	1.0 g	502091	03/16/21 18:03	JEC	TAL SL
Total/NA	Analysis	9315		1			504967	04/08/21 10:22	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.45 mL	1.0 g	502092	03/16/21 18:47	JEC	TAL SL
Total/NA	Analysis	9320		1			502827	03/23/21 13:02	AK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505209	04/09/21 13:16	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-15

Lab Sample ID: 180-118143-12

Date Collected: 03/08/21 14:55

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.73 mL	1.0 g	502091	03/16/21 18:03	JEC	TAL SL
Total/NA	Analysis	9315		1			504967	04/08/21 10:22	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.73 mL	1.0 g	502092	03/16/21 18:47	JEC	TAL SL
Total/NA	Analysis	9320		1			502827	03/23/21 13:02	AK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505209	04/09/21 13:16	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-16

Lab Sample ID: 180-118143-13

Date Collected: 03/08/21 13:30

Matrix: Water

Date Received: 03/10/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.71 mL	1.0 g	502091	03/16/21 18:03	JEC	TAL SL
Total/NA	Analysis	9315		1			504967	04/08/21 10:22	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.71 mL	1.0 g	502092	03/16/21 18:47	JEC	TAL SL
Total/NA	Analysis	9320		1			502827	03/23/21 13:02	AK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505209	04/09/21 13:16	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-8

Lab Sample ID: 180-118244-1

Date Collected: 03/09/21 08:59

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.48 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:15	AK	TAL SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-8

Lab Sample ID: 180-118244-1

Date Collected: 03/09/21 08:59

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.48 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:05	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-8D

Lab Sample ID: 180-118244-2

Date Collected: 03/09/21 09:40

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.03 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:15	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.03 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:05	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-7

Lab Sample ID: 180-118244-3

Date Collected: 03/09/21 11:01

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.35 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:16	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.35 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:05	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-6R

Lab Sample ID: 180-118244-4

Date Collected: 03/09/21 12:08

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.22 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:16	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.22 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:06	ANW	TAL SL
Instrument ID: GFPCORANGE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-6R

Lab Sample ID: 180-118244-4

Date Collected: 03/09/21 12:08

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL

Client Sample ID: APMW-3

Lab Sample ID: 180-118244-5

Date Collected: 03/09/21 07:50

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.76 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:16	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.76 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:06	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3D

Lab Sample ID: 180-118244-6

Date Collected: 03/09/21 08:40

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.80 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:16	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.80 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:06	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4

Lab Sample ID: 180-118244-7

Date Collected: 03/09/21 10:45

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.28 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:16	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.28 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:06	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-4D

Lab Sample ID: 180-118244-8

Date Collected: 03/09/21 09:45

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.14 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:13	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.14 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:06	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5

Lab Sample ID: 180-118244-9

Date Collected: 03/09/21 12:00

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.67 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:13	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.67 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:06	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5D

Lab Sample ID: 180-118244-10

Date Collected: 03/09/21 17:35

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.11 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:14	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.11 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:07	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-6D

Lab Sample ID: 180-118244-11

Date Collected: 03/10/21 07:30

Matrix: Water

Date Received: 03/11/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.64 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:14	AK	TAL SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-6D

Date Collected: 03/10/21 07:30

Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.64 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:07	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-12

Date Collected: 03/10/21 06:58

Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.22 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:14	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.22 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:07	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-11

Date Collected: 03/10/21 07:39

Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.42 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:14	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.42 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:07	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03

Date Collected: 03/10/21 06:39

Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.10 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 10:15	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.10 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:07	ANW	TAL SL
Instrument ID: GFPCORANGE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: DUP-03
Date Collected: 03/10/21 06:39
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL

Client Sample ID: FB-03
Date Collected: 03/10/21 07:30
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.82 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 12:12	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.82 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:07	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-03
Date Collected: 03/10/21 06:50
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.54 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 12:13	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.54 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503705	03/30/21 14:08	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02
Date Collected: 03/09/21 07:40
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.33 mL	1.0 g	502454	03/18/21 13:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 12:13	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.33 mL	1.0 g	502458	03/18/21 13:32	JEC	TAL SL
Total/NA	Analysis	9320		1			503704	03/30/21 14:13	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			505489	04/13/21 21:38	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: FB-02
Date Collected: 03/09/21 11:50
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.18 mL	1.0 g	502505	03/19/21 09:03	RBR	TAL SL
Total/NA	Analysis	9315		1			505458	04/13/21 08:34	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.18 mL	1.0 g	502508	03/19/21 09:39	RBR	TAL SL
Total/NA	Analysis	9320		1			503689	03/30/21 14:18	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			505625	04/14/21 15:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-02
Date Collected: 03/09/21 08:08
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.67 mL	1.0 g	502505	03/19/21 09:03	RBR	TAL SL
Total/NA	Analysis	9315		1			505458	04/13/21 08:34	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1001.67 mL	1.0 g	502508	03/19/21 09:39	RBR	TAL SL
Total/NA	Analysis	9320		1			503689	03/30/21 14:18	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			505625	04/14/21 15:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

JEC = Julia Crossen

RBR = Rachael Ratcliff

Batch Type: Analysis

AK = Amanda Kraus

ANW = Amber Woods

FLC = Fernando Cruz

SCB = Sarah Bernsen

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-10D

Lab Sample ID: 180-118143-1

Date Collected: 03/08/21 12:32

Matrix: Water

Date Received: 03/10/21 09:00

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		0.0869	0.0879	1.00	0.113	pCi/L	03/16/21 18:03	04/08/21 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.3		40 - 110					03/16/21 18:03	04/08/21 10:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.588		0.324	0.328	1.00	0.482	pCi/L	03/16/21 18:47	03/23/21 12:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.3		40 - 110					03/16/21 18:47	03/23/21 12:59	1
Y Carrier	83.4		40 - 110					03/16/21 18:47	03/23/21 12:59	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	0.730		0.335	0.340	5.00	0.482	pCi/L		04/09/21 13:16	1

Client Sample ID: APMW-10

Lab Sample ID: 180-118143-2

Date Collected: 03/08/21 13:18

Matrix: Water

Date Received: 03/10/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.38		0.196	0.233	1.00	0.0910	pCi/L	03/16/21 18:03	04/08/21 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					03/16/21 18:03	04/08/21 10:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.48		0.358	0.383	1.00	0.426	pCi/L	03/16/21 18:47	03/23/21 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					03/16/21 18:47	03/23/21 13:00	1
Y Carrier	83.4		40 - 110					03/16/21 18:47	03/23/21 13:00	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-10

Lab Sample ID: 180-118143-2

Date Collected: 03/08/21 13:18

Matrix: Water

Date Received: 03/10/21 09:00

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	2.86		0.408	0.448	5.00	0.426	pCi/L		04/09/21 13:16	1

Client Sample ID: APMW-9

Lab Sample ID: 180-118143-3

Date Collected: 03/08/21 14:14

Matrix: Water

Date Received: 03/10/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.44		0.265	0.344	1.00	0.105	pCi/L	03/16/21 18:03	04/08/21 10:24	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	84.1		40 - 110					03/16/21 18:03	04/08/21 10:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.83		0.677	0.923	1.00	0.554	pCi/L	03/16/21 18:47	03/23/21 13:00	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	84.1		40 - 110					03/16/21 18:47	03/23/21 13:00	1
Y Carrier	82.6		40 - 110					03/16/21 18:47	03/23/21 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	9.26		0.727	0.985	5.00	0.554	pCi/L		04/09/21 13:16	1

Client Sample ID: APMW-1R

Lab Sample ID: 180-118143-4

Date Collected: 03/08/21 12:45

Matrix: Water

Date Received: 03/10/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	6.90		0.437	0.760	1.00	0.111	pCi/L	03/16/21 18:03	04/08/21 10:24	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	95.3		40 - 110					03/16/21 18:03	04/08/21 10:24	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-1R

Lab Sample ID: 180-118143-4

Date Collected: 03/08/21 12:45

Matrix: Water

Date Received: 03/10/21 09:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.29		0.613	0.909	1.00	0.401	pCi/L	03/16/21 18:47	03/23/21 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					03/16/21 18:47	03/23/21 13:00	1
Y Carrier	84.9		40 - 110					03/16/21 18:47	03/23/21 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	14.2		0.753	1.18	5.00	0.401	pCi/L		04/09/21 13:16	1

Client Sample ID: APMW-2

Lab Sample ID: 180-118143-5

Date Collected: 03/08/21 13:55

Matrix: Water

Date Received: 03/10/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	13.0		0.583	1.31	1.00	0.114	pCi/L	03/16/21 18:03	04/08/21 10:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					03/16/21 18:03	04/08/21 10:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	8.36		0.660	1.01	1.00	0.429	pCi/L	03/16/21 18:47	03/23/21 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					03/16/21 18:47	03/23/21 13:00	1
Y Carrier	80.0		40 - 110					03/16/21 18:47	03/23/21 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	21.4		0.881	1.65	5.00	0.429	pCi/L		04/09/21 13:16	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-2D

Lab Sample ID: 180-118143-6

Date Collected: 03/08/21 18:15

Matrix: Water

Date Received: 03/10/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0793	U	0.0640	0.0644	1.00	0.0928	pCi/L	03/16/21 18:03	04/08/21 10:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					03/16/21 18:03	04/08/21 10:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0847	U	0.261	0.261	1.00	0.455	pCi/L	03/16/21 18:47	03/23/21 13:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					03/16/21 18:47	03/23/21 13:01	1
Y Carrier	81.1		40 - 110					03/16/21 18:47	03/23/21 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	0.164	U	0.269	0.269	5.00	0.455	pCi/L		04/09/21 13:16	1

Client Sample ID: FB-01

Lab Sample ID: 180-118143-7

Date Collected: 03/08/21 17:45

Matrix: Water

Date Received: 03/10/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0154	U	0.0470	0.0471	1.00	0.106	pCi/L	03/16/21 18:03	04/08/21 10:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					03/16/21 18:03	04/08/21 10:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.426	U	0.293	0.295	1.00	0.453	pCi/L	03/16/21 18:47	03/23/21 13:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					03/16/21 18:47	03/23/21 13:01	1
Y Carrier	81.9		40 - 110					03/16/21 18:47	03/23/21 13:01	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: FB-01

Date Collected: 03/08/21 17:45

Date Received: 03/10/21 09:00

Lab Sample ID: 180-118143-7

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	0.410	U	0.297	0.299	5.00	0.453	pCi/L		04/09/21 13:16	1

Client Sample ID: EB-01

Date Collected: 03/08/21 14:15

Date Received: 03/10/21 09:00

Lab Sample ID: 180-118143-8

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	0.00676	U	0.0490	0.0490	1.00	0.0977	pCi/L	03/16/21 18:03	04/08/21 10:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		40 - 110					03/16/21 18:03	04/08/21 10:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.170	U	0.265	0.266	1.00	0.447	pCi/L	03/16/21 18:47	03/23/21 13:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		40 - 110					03/16/21 18:47	03/23/21 13:01	1
Y Carrier	81.5		40 - 110					03/16/21 18:47	03/23/21 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	0.177	U	0.269	0.270	5.00	0.447	pCi/L		04/09/21 13:16	1

Client Sample ID: DUP-01

Date Collected: 03/08/21 11:45

Date Received: 03/10/21 09:00

Lab Sample ID: 180-118143-9

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	6.34		0.402	0.698	1.00	0.0970	pCi/L	03/16/21 18:03	04/08/21 10:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					03/16/21 18:03	04/08/21 10:21	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: DUP-01

Lab Sample ID: 180-118143-9

Date Collected: 03/08/21 11:45

Matrix: Water

Date Received: 03/10/21 09:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.85		0.593	0.865	1.00	0.380	pCi/L	03/16/21 18:47	03/23/21 13:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					03/16/21 18:47	03/23/21 13:01	1
Y Carrier	82.6		40 - 110					03/16/21 18:47	03/23/21 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	13.2		0.716	1.11	5.00	0.380	pCi/L		04/09/21 13:16	1

Client Sample ID: APMW-13

Lab Sample ID: 180-118143-10

Date Collected: 03/08/21 17:00

Matrix: Water

Date Received: 03/10/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.25		0.204	0.233	1.00	0.111	pCi/L	03/16/21 18:03	04/08/21 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.9		40 - 110					03/16/21 18:03	04/08/21 10:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.93		0.431	0.466	1.00	0.486	pCi/L	03/16/21 18:47	03/23/21 13:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.9		40 - 110					03/16/21 18:47	03/23/21 13:02	1
Y Carrier	81.5		40 - 110					03/16/21 18:47	03/23/21 13:02	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	3.18		0.477	0.521	5.00	0.486	pCi/L		04/09/21 13:16	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-14

Lab Sample ID: 180-118143-11

Date Collected: 03/08/21 11:40

Matrix: Water

Date Received: 03/10/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.01		0.241	0.301	1.00	0.104	pCi/L	03/16/21 18:03	04/08/21 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		40 - 110					03/16/21 18:03	04/08/21 10:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.02		0.453	0.532	1.00	0.400	pCi/L	03/16/21 18:47	03/23/21 13:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		40 - 110					03/16/21 18:47	03/23/21 13:02	1
Y Carrier	81.9		40 - 110					03/16/21 18:47	03/23/21 13:02	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	5.04		0.513	0.611	5.00	0.400	pCi/L		04/09/21 13:16	1

Client Sample ID: APMW-15

Lab Sample ID: 180-118143-12

Date Collected: 03/08/21 14:55

Matrix: Water

Date Received: 03/10/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.905		0.199	0.215	1.00	0.158	pCi/L	03/16/21 18:03	04/08/21 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					03/16/21 18:03	04/08/21 10:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.01		0.410	0.421	1.00	0.570	pCi/L	03/16/21 18:47	03/23/21 13:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					03/16/21 18:47	03/23/21 13:02	1
Y Carrier	82.6		40 - 110					03/16/21 18:47	03/23/21 13:02	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-15

Lab Sample ID: 180-118143-12

Date Collected: 03/08/21 14:55

Matrix: Water

Date Received: 03/10/21 09:00

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	1.91		0.456	0.473	5.00	0.570	pCi/L		04/09/21 13:16	1

Client Sample ID: APMW-16

Lab Sample ID: 180-118143-13

Date Collected: 03/08/21 13:30

Matrix: Water

Date Received: 03/10/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.08		0.209	0.231	1.00	0.122	pCi/L	03/16/21 18:03	04/08/21 10:22	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	83.2		40 - 110					03/16/21 18:03	04/08/21 10:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.46		0.450	0.470	1.00	0.575	pCi/L	03/16/21 18:47	03/23/21 13:02	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	83.2		40 - 110					03/16/21 18:47	03/23/21 13:02	1
Y Carrier	83.4		40 - 110					03/16/21 18:47	03/23/21 13:02	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	2.54		0.496	0.524	5.00	0.575	pCi/L		04/09/21 13:16	1

Client Sample ID: APMW-8

Lab Sample ID: 180-118244-1

Date Collected: 03/09/21 08:59

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.08		0.182	0.206	1.00	0.0930	pCi/L	03/18/21 13:07	04/09/21 10:15	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	90.6		40 - 110					03/18/21 13:07	04/09/21 10:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-8

Lab Sample ID: 180-118244-1

Date Collected: 03/09/21 08:59

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.44		0.421	0.478	1.00	0.420	pCi/L	03/18/21 13:32	03/30/21 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					03/18/21 13:32	03/30/21 14:05	1
Y Carrier	81.1		40 - 110					03/18/21 13:32	03/30/21 14:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.52		0.459	0.520	5.00	0.420	pCi/L		04/13/21 21:38	1

Client Sample ID: APMW-8D

Lab Sample ID: 180-118244-2

Date Collected: 03/09/21 09:40

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.194		0.106	0.107	1.00	0.140	pCi/L	03/18/21 13:07	04/09/21 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					03/18/21 13:07	04/09/21 10:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.343	U	0.186	0.188	1.00	0.411	pCi/L	03/18/21 13:32	03/30/21 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					03/18/21 13:32	03/30/21 14:05	1
Y Carrier	82.2		40 - 110					03/18/21 13:32	03/30/21 14:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.149	U	0.214	0.216	5.00	0.411	pCi/L		04/13/21 21:38	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-7

Lab Sample ID: 180-118244-3

Date Collected: 03/09/21 11:01

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.92		0.276	0.325	1.00	0.132	pCi/L	03/18/21 13:07	04/09/21 10:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					03/18/21 13:07	04/09/21 10:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.742		0.385	0.391	1.00	0.567	pCi/L	03/18/21 13:32	03/30/21 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					03/18/21 13:32	03/30/21 14:05	1
Y Carrier	80.4		40 - 110					03/18/21 13:32	03/30/21 14:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.66		0.474	0.508	5.00	0.567	pCi/L		04/13/21 21:38	1

Client Sample ID: APMW-6R

Lab Sample ID: 180-118244-4

Date Collected: 03/09/21 12:08

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.302		0.107	0.111	1.00	0.103	pCi/L	03/18/21 13:07	04/09/21 10:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					03/18/21 13:07	04/09/21 10:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0688	U	0.215	0.215	1.00	0.399	pCi/L	03/18/21 13:32	03/30/21 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					03/18/21 13:32	03/30/21 14:06	1
Y Carrier	84.9		40 - 110					03/18/21 13:32	03/30/21 14:06	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-6R

Lab Sample ID: 180-118244-4

Date Collected: 03/09/21 12:08

Matrix: Water

Date Received: 03/11/21 08:45

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	0.234	U	0.240	0.242	5.00	0.399	pCi/L		04/13/21 21:38	1

Client Sample ID: APMW-3

Lab Sample ID: 180-118244-5

Date Collected: 03/09/21 07:50

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.433		0.121	0.127	1.00	0.0987	pCi/L	03/18/21 13:07	04/09/21 10:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					03/18/21 13:07	04/09/21 10:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.25		0.457	0.501	1.00	0.540	pCi/L	03/18/21 13:32	03/30/21 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					03/18/21 13:32	03/30/21 14:06	1
Y Carrier	80.0		40 - 110					03/18/21 13:32	03/30/21 14:06	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	2.68		0.473	0.517	5.00	0.540	pCi/L		04/13/21 21:38	1

Client Sample ID: APMW-3D

Lab Sample ID: 180-118244-6

Date Collected: 03/09/21 08:40

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.165		0.0882	0.0894	1.00	0.111	pCi/L	03/18/21 13:07	04/09/21 10:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					03/18/21 13:07	04/09/21 10:16	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-3D

Lab Sample ID: 180-118244-6

Date Collected: 03/09/21 08:40

Matrix: Water

Date Received: 03/11/21 08:45

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	0.295	0.298	1.00	0.457	pCi/L	03/18/21 13:32	03/30/21 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					03/18/21 13:32	03/30/21 14:06	1
Y Carrier	81.5		40 - 110					03/18/21 13:32	03/30/21 14:06	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	0.605		0.308	0.311	5.00	0.457	pCi/L		04/13/21 21:38	1

Client Sample ID: APMW-4

Lab Sample ID: 180-118244-7

Date Collected: 03/09/21 10:45

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.529		0.179	0.185	1.00	0.182	pCi/L	03/18/21 13:07	04/09/21 10:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					03/18/21 13:07	04/09/21 10:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.55		0.517	0.536	1.00	0.698	pCi/L	03/18/21 13:32	03/30/21 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					03/18/21 13:32	03/30/21 14:06	1
Y Carrier	79.6		40 - 110					03/18/21 13:32	03/30/21 14:06	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		0.547	0.567	5.00	0.698	pCi/L		04/13/21 21:38	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-4D

Lab Sample ID: 180-118244-8

Date Collected: 03/09/21 09:45

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.21		0.226	0.251	1.00	0.133	pCi/L	03/18/21 13:07	04/09/21 10:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		40 - 110					03/18/21 13:07	04/09/21 10:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.13		0.778	1.02	1.00	0.597	pCi/L	03/18/21 13:32	03/30/21 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		40 - 110					03/18/21 13:32	03/30/21 14:06	1
Y Carrier	81.1		40 - 110					03/18/21 13:32	03/30/21 14:06	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	8.34		0.810	1.05	5.00	0.597	pCi/L		04/13/21 21:38	1

Client Sample ID: APMW-5

Lab Sample ID: 180-118244-9

Date Collected: 03/09/21 12:00

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.510		0.136	0.143	1.00	0.113	pCi/L	03/18/21 13:07	04/09/21 10:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110					03/18/21 13:07	04/09/21 10:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.50		0.504	0.598	1.00	0.459	pCi/L	03/18/21 13:32	03/30/21 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110					03/18/21 13:32	03/30/21 14:06	1
Y Carrier	79.3		40 - 110					03/18/21 13:32	03/30/21 14:06	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-5

Lab Sample ID: 180-118244-9

Date Collected: 03/09/21 12:00

Matrix: Water

Date Received: 03/11/21 08:45

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	4.01		0.522	0.615	5.00	0.459	pCi/L		04/13/21 21:38	1

Client Sample ID: APMW-5D

Lab Sample ID: 180-118244-10

Date Collected: 03/09/21 17:35

Matrix: Water

Date Received: 03/11/21 08:45

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	0.0771	0.0775	1.00	0.116	pCi/L	03/18/21 13:07	04/09/21 10:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.4		40 - 110					03/18/21 13:07	04/09/21 10:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.151	U	0.300	0.300	1.00	0.512	pCi/L	03/18/21 13:32	03/30/21 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.4		40 - 110					03/18/21 13:32	03/30/21 14:07	1
Y Carrier	78.9		40 - 110					03/18/21 13:32	03/30/21 14:07	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	0.240	U	0.310	0.310	5.00	0.512	pCi/L		04/13/21 21:38	1

Client Sample ID: APMW-6D

Lab Sample ID: 180-118244-11

Date Collected: 03/10/21 07:30

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0888	U	0.0759	0.0763	1.00	0.114	pCi/L	03/18/21 13:07	04/09/21 10:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					03/18/21 13:07	04/09/21 10:14	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-6D

Lab Sample ID: 180-118244-11

Date Collected: 03/10/21 07:30

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0970	U	0.256	0.257	1.00	0.445	pCi/L	03/18/21 13:32	03/30/21 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					03/18/21 13:32	03/30/21 14:07	1
Y Carrier	77.8		40 - 110					03/18/21 13:32	03/30/21 14:07	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	0.267	0.268	5.00	0.445	pCi/L		04/13/21 21:38	1

Client Sample ID: APMW-12

Lab Sample ID: 180-118244-12

Date Collected: 03/10/21 06:58

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.249		0.101	0.103	1.00	0.107	pCi/L	03/18/21 13:07	04/09/21 10:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					03/18/21 13:07	04/09/21 10:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.345	U	0.268	0.269	1.00	0.420	pCi/L	03/18/21 13:32	03/30/21 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					03/18/21 13:32	03/30/21 14:07	1
Y Carrier	82.2		40 - 110					03/18/21 13:32	03/30/21 14:07	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	0.594		0.286	0.288	5.00	0.420	pCi/L		04/13/21 21:38	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: APMW-11

Lab Sample ID: 180-118244-13

Date Collected: 03/10/21 07:39

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.137		0.0830	0.0839	1.00	0.110	pCi/L	03/18/21 13:07	04/09/21 10:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					03/18/21 13:07	04/09/21 10:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.252	U	0.239	0.240	1.00	0.385	pCi/L	03/18/21 13:32	03/30/21 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					03/18/21 13:32	03/30/21 14:07	1
Y Carrier	82.6		40 - 110					03/18/21 13:32	03/30/21 14:07	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	0.389		0.253	0.254	5.00	0.385	pCi/L		04/13/21 21:38	1

Client Sample ID: DUP-03

Lab Sample ID: 180-118244-14

Date Collected: 03/10/21 06:39

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0903	U	0.0820	0.0824	1.00	0.127	pCi/L	03/18/21 13:07	04/09/21 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					03/18/21 13:07	04/09/21 10:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0541	U	0.224	0.224	1.00	0.414	pCi/L	03/18/21 13:32	03/30/21 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					03/18/21 13:32	03/30/21 14:07	1
Y Carrier	83.7		40 - 110					03/18/21 13:32	03/30/21 14:07	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: DUP-03

Lab Sample ID: 180-118244-14

Date Collected: 03/10/21 06:39

Matrix: Water

Date Received: 03/11/21 08:45

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	0.0361	U	0.239	0.239	5.00	0.414	pCi/L		04/13/21 21:38	1

Client Sample ID: FB-03

Lab Sample ID: 180-118244-15

Date Collected: 03/10/21 07:30

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00446	U	0.0492	0.0492	1.00	0.101	pCi/L	03/18/21 13:07	04/09/21 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		40 - 110					03/18/21 13:07	04/09/21 12:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.190	U	0.254	0.255	1.00	0.424	pCi/L	03/18/21 13:32	03/30/21 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		40 - 110					03/18/21 13:32	03/30/21 14:07	1
Y Carrier	83.4		40 - 110					03/18/21 13:32	03/30/21 14:07	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	0.259	0.260	5.00	0.424	pCi/L		04/13/21 21:38	1

Client Sample ID: EB-03

Lab Sample ID: 180-118244-16

Date Collected: 03/10/21 06:50

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0214	U	0.0615	0.0616	1.00	0.115	pCi/L	03/18/21 13:07	04/09/21 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/18/21 13:07	04/09/21 12:13	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: EB-03
Date Collected: 03/10/21 06:50
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-16
Matrix: Water

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0632	U	0.219	0.220	1.00	0.413	pCi/L	03/18/21 13:32	03/30/21 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/18/21 13:32	03/30/21 14:08	1
Y Carrier	82.6		40 - 110					03/18/21 13:32	03/30/21 14:08	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	-0.0418	U	0.227	0.228	5.00	0.413	pCi/L		04/13/21 21:38	1

Client Sample ID: DUP-02
Date Collected: 03/09/21 07:40
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-17
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	0.159		0.0842	0.0854	1.00	0.104	pCi/L	03/18/21 13:07	04/09/21 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					03/18/21 13:07	04/09/21 12:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.160	U	0.218	0.218	1.00	0.364	pCi/L	03/18/21 13:32	03/30/21 14:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					03/18/21 13:32	03/30/21 14:13	1
Y Carrier	81.9		40 - 110					03/18/21 13:32	03/30/21 14:13	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	0.319	U	0.234	0.234	5.00	0.364	pCi/L		04/13/21 21:38	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: FB-02

Lab Sample ID: 180-118244-18

Date Collected: 03/09/21 11:50

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0350	U	0.0386	0.0387	1.00	0.101	pCi/L	03/19/21 09:03	04/13/21 08:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110					03/19/21 09:03	04/13/21 08:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.438		0.282	0.285	1.00	0.431	pCi/L	03/19/21 09:39	03/30/21 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110					03/19/21 09:39	03/30/21 14:18	1
Y Carrier	85.2		40 - 110					03/19/21 09:39	03/30/21 14:18	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	0.403	U	0.285	0.288	5.00	0.431	pCi/L		04/14/21 15:15	1

Client Sample ID: EB-02

Lab Sample ID: 180-118244-19

Date Collected: 03/09/21 08:08

Matrix: Water

Date Received: 03/11/21 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00135	U	0.0401	0.0401	1.00	0.0871	pCi/L	03/19/21 09:03	04/13/21 08:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					03/19/21 09:03	04/13/21 08:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.145	U	0.248	0.249	1.00	0.422	pCi/L	03/19/21 09:39	03/30/21 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					03/19/21 09:39	03/30/21 14:18	1
Y Carrier	84.5		40 - 110					03/19/21 09:39	03/30/21 14:18	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Client Sample ID: EB-02
Date Collected: 03/09/21 08:08
Date Received: 03/11/21 08:45

Lab Sample ID: 180-118244-19
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	0.144	U	0.251	0.252	5.00	0.422	pCi/L		04/14/21 15:15	1

- 1
- 2
- 3
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- 5
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- 10
- 11
- 12
- 13

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-502091/20-A
Matrix: Water
Analysis Batch: 504966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502091

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.04126	U	0.0515	0.0517	1.00	0.124	pCi/L	03/16/21 18:03	04/08/21 10:26	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	77.6		40 - 110					03/16/21 18:03	04/08/21 10:26	1

Lab Sample ID: LCS 160-502091/1-A
Matrix: Water
Analysis Batch: 504967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502091

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	12.28		1.27	1.00	0.140	pCi/L	108	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	80.0		40 - 110					03/16/21 18:03	04/08/21 10:26

Lab Sample ID: LCSD 160-502091/2-A
Matrix: Water
Analysis Batch: 504967

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 502091

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	11.57		1.19	1.00	0.0997	pCi/L	102	75 - 125	0.29	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	79.4		40 - 110					03/18/21 13:07	04/09/21 12:13	1	

Lab Sample ID: MB 160-502454/20-A
Matrix: Water
Analysis Batch: 505214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502454

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02242	U	0.0622	0.0622	1.00	0.115	pCi/L	03/18/21 13:07	04/09/21 12:13	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	89.1		40 - 110					03/18/21 13:07	04/09/21 12:13	1

Lab Sample ID: LCS 160-502454/1-A
Matrix: Water
Analysis Batch: 505214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502454

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.32		1.17	1.00	0.0948	pCi/L	100	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-502454/1-A
Matrix: Water
Analysis Batch: 505214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502454

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	88.8		40 - 110

Lab Sample ID: LCSD 160-502454/2-A
Matrix: Water
Analysis Batch: 505214

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 502454

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.3	11.89		1.23	1.00	0.104	pCi/L	105	75 - 125	0.24	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	87.6		40 - 110

Lab Sample ID: MB 160-502505/23-A
Matrix: Water
Analysis Batch: 505467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502505

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01676	U	0.0674	0.0674	1.00	0.141	pCi/L	03/19/21 09:03	04/13/21 08:39	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		40 - 110	03/19/21 09:03	04/13/21 08:39	1

Lab Sample ID: LCS 160-502505/1-A
Matrix: Water
Analysis Batch: 505458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502505

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.3	11.28		1.18	1.00	0.149	pCi/L	99	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	68.5		40 - 110

Lab Sample ID: LCSD 160-502505/2-A
Matrix: Water
Analysis Batch: 505458

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 502505

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.3	11.04		1.14	1.00	0.114	pCi/L	97	75 - 125	0.10	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	78.8		40 - 110

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-502092/20-A
Matrix: Water
Analysis Batch: 502827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502092

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)								
Radium-228	0.1716	U	0.309	0.309	1.00	0.524	pCi/L	03/16/21 18:47	03/23/21 12:57		1	
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed		Dil Fac	
Ba Carrier	77.6		40 - 110				03/16/21 18:47		03/23/21 12:57		1	
Y Carrier	84.1		40 - 110				03/16/21 18:47		03/23/21 12:57		1	

Lab Sample ID: LCS 160-502092/1-A
Matrix: Water
Analysis Batch: 502827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502092

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
				Uncert. (2σ+/-)						
Radium-228	7.34	8.862		1.10	1.00	0.485	pCi/L	121	75 - 125	
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	80.0		40 - 110							
Y Carrier	86.0		40 - 110							

Lab Sample ID: LCSD 160-502092/2-A
Matrix: Water
Analysis Batch: 502827

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 502092

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
				Uncert. (2σ+/-)								
Radium-228	7.34	9.606		1.17	1.00	0.448	pCi/L	131	75 - 125	0.33	1	
Carrier	LCSD %Yield	LCSD Qualifier	Limits									
Ba Carrier	79.4		40 - 110									
Y Carrier	83.0		40 - 110									

Lab Sample ID: MB 160-502458/20-A
Matrix: Water
Analysis Batch: 503704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502458

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)								
Radium-228	0.1828	U	0.215	0.216	1.00	0.355	pCi/L	03/18/21 13:32	03/30/21 14:13		1	
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed		Dil Fac	
Ba Carrier	89.1		40 - 110				03/18/21 13:32		03/30/21 14:13		1	
Y Carrier	83.4		40 - 110				03/18/21 13:32		03/30/21 14:13		1	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

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

Lab Sample ID: LCS 160-502458/1-A
Matrix: Water
Analysis Batch: 503705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502458

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	7.32	7.175		0.923	1.00	0.419	pCi/L	98	75	125
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	88.8		40 - 110							
Y Carrier	80.4		40 - 110							

Lab Sample ID: LCSD 160-502458/2-A
Matrix: Water
Analysis Batch: 503705

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 502458

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	Limit
									75	125	0.07	1
Radium-228	7.32	7.304		0.929	1.00	0.348	pCi/L	100	75	125	0.07	1
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	87.6		40 - 110									
Y Carrier	81.9		40 - 110									

Lab Sample ID: MB 160-502508/23-A
Matrix: Water
Analysis Batch: 503704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502508

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								03/19/21 09:39	03/30/21 14:22	03/19/21 09:39	03/30/21 14:22	1
Radium-228	0.1766	U	0.276	0.277	1.00	0.466	pCi/L	03/19/21 09:39	03/30/21 14:22	03/19/21 09:39	03/30/21 14:22	1
Carrier	%Yield	Qualifier	Limits		Prepared		Analyzed		Dil Fac			
Ba Carrier	78.8		40 - 110		03/19/21 09:39		03/30/21 14:22		1			
Y Carrier	88.2		40 - 110		03/19/21 09:39		03/30/21 14:22		1			

Lab Sample ID: LCS 160-502508/1-A
Matrix: Water
Analysis Batch: 503689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502508

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	7.32	8.475		1.12	1.00	0.557	pCi/L	116	75	125
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	68.5		40 - 110							
Y Carrier	83.0		40 - 110							

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

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

Lab Sample ID: LCSD 160-502508/2-A
Matrix: Water
Analysis Batch: 503689

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 502508

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	
									Min	Max	RER	Limit
Radium-228	7.32	8.940		1.12	1.00	0.472	pCi/L	122	75	125	0.21	1

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	78.8		40 - 110
Y Carrier	83.0		40 - 110

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Rad

Prep Batch: 502091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118143-1	APMW-10D	Total/NA	Water	PrecSep-21	
180-118143-2	APMW-10	Total/NA	Water	PrecSep-21	
180-118143-3	APMW-9	Total/NA	Water	PrecSep-21	
180-118143-4	APMW-1R	Total/NA	Water	PrecSep-21	
180-118143-5	APMW-2	Total/NA	Water	PrecSep-21	
180-118143-6	APMW-2D	Total/NA	Water	PrecSep-21	
180-118143-7	FB-01	Total/NA	Water	PrecSep-21	
180-118143-8	EB-01	Total/NA	Water	PrecSep-21	
180-118143-9	DUP-01	Total/NA	Water	PrecSep-21	
180-118143-10	APMW-13	Total/NA	Water	PrecSep-21	
180-118143-11	APMW-14	Total/NA	Water	PrecSep-21	
180-118143-12	APMW-15	Total/NA	Water	PrecSep-21	
180-118143-13	APMW-16	Total/NA	Water	PrecSep-21	
MB 160-502091/20-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-502091/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-502091/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 502092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118143-1	APMW-10D	Total/NA	Water	PrecSep_0	
180-118143-2	APMW-10	Total/NA	Water	PrecSep_0	
180-118143-3	APMW-9	Total/NA	Water	PrecSep_0	
180-118143-4	APMW-1R	Total/NA	Water	PrecSep_0	
180-118143-5	APMW-2	Total/NA	Water	PrecSep_0	
180-118143-6	APMW-2D	Total/NA	Water	PrecSep_0	
180-118143-7	FB-01	Total/NA	Water	PrecSep_0	
180-118143-8	EB-01	Total/NA	Water	PrecSep_0	
180-118143-9	DUP-01	Total/NA	Water	PrecSep_0	
180-118143-10	APMW-13	Total/NA	Water	PrecSep_0	
180-118143-11	APMW-14	Total/NA	Water	PrecSep_0	
180-118143-12	APMW-15	Total/NA	Water	PrecSep_0	
180-118143-13	APMW-16	Total/NA	Water	PrecSep_0	
MB 160-502092/20-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-502092/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-502092/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 502454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-1	APMW-8	Total/NA	Water	PrecSep-21	
180-118244-2	APMW-8D	Total/NA	Water	PrecSep-21	
180-118244-3	APMW-7	Total/NA	Water	PrecSep-21	
180-118244-4	APMW-6R	Total/NA	Water	PrecSep-21	
180-118244-5	APMW-3	Total/NA	Water	PrecSep-21	
180-118244-6	APMW-3D	Total/NA	Water	PrecSep-21	
180-118244-7	APMW-4	Total/NA	Water	PrecSep-21	
180-118244-8	APMW-4D	Total/NA	Water	PrecSep-21	
180-118244-9	APMW-5	Total/NA	Water	PrecSep-21	
180-118244-10	APMW-5D	Total/NA	Water	PrecSep-21	
180-118244-11	APMW-6D	Total/NA	Water	PrecSep-21	
180-118244-12	APMW-12	Total/NA	Water	PrecSep-21	
180-118244-13	APMW-11	Total/NA	Water	PrecSep-21	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-118143-2

Rad (Continued)

Prep Batch: 502454 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-14	DUP-03	Total/NA	Water	PrecSep-21	
180-118244-15	FB-03	Total/NA	Water	PrecSep-21	
180-118244-16	EB-03	Total/NA	Water	PrecSep-21	
180-118244-17	DUP-02	Total/NA	Water	PrecSep-21	
MB 160-502454/20-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-502454/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-502454/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 502458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-1	APMW-8	Total/NA	Water	PrecSep_0	
180-118244-2	APMW-8D	Total/NA	Water	PrecSep_0	
180-118244-3	APMW-7	Total/NA	Water	PrecSep_0	
180-118244-4	APMW-6R	Total/NA	Water	PrecSep_0	
180-118244-5	APMW-3	Total/NA	Water	PrecSep_0	
180-118244-6	APMW-3D	Total/NA	Water	PrecSep_0	
180-118244-7	APMW-4	Total/NA	Water	PrecSep_0	
180-118244-8	APMW-4D	Total/NA	Water	PrecSep_0	
180-118244-9	APMW-5	Total/NA	Water	PrecSep_0	
180-118244-10	APMW-5D	Total/NA	Water	PrecSep_0	
180-118244-11	APMW-6D	Total/NA	Water	PrecSep_0	
180-118244-12	APMW-12	Total/NA	Water	PrecSep_0	
180-118244-13	APMW-11	Total/NA	Water	PrecSep_0	
180-118244-14	DUP-03	Total/NA	Water	PrecSep_0	
180-118244-15	FB-03	Total/NA	Water	PrecSep_0	
180-118244-16	EB-03	Total/NA	Water	PrecSep_0	
180-118244-17	DUP-02	Total/NA	Water	PrecSep_0	
MB 160-502458/20-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-502458/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-502458/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 502505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-18	FB-02	Total/NA	Water	PrecSep-21	
180-118244-19	EB-02	Total/NA	Water	PrecSep-21	
MB 160-502505/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-502505/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-502505/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 502508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118244-18	FB-02	Total/NA	Water	PrecSep_0	
180-118244-19	EB-02	Total/NA	Water	PrecSep_0	
MB 160-502508/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-502508/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-502508/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Sample Identification

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)
APMW-10d	3/8/21	1232	G	
APMW-10	3/8/21	1318		
APMW-9	3/8/21	1414		
APMW-1R	3/8/21	1245		
APMW-2	3/8/21	1355		
APMW-2d	3/8/21	1815		
FB-01	3/8/21	1745		
EB-01	3/8/21	1415		
DUP-01	3/8/21	1145		
APMW-13	3/8/21	1700		
APMW-14	3/8/21	1140	G	

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: _____ Date/Time: 3/9/21 1300 Company: RDT

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____

Δ Yes Δ No

Special 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: _____ Date/Time: 3-10-21 Company: RDT

Received by: _____ Date/Time: 900 Company: _____

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:



Do Not Lift Using This Tag

Recipient's Name <i>Please print.</i>	Phone Number
Company	Dept./Floor/Suite/Room

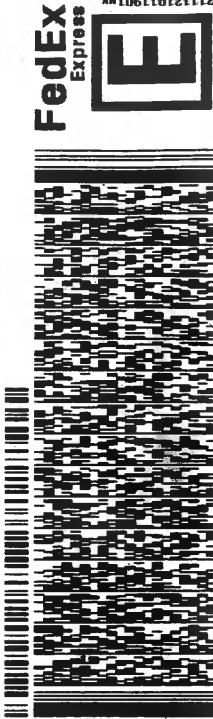
Part # 156297-156297-01/22

ORIGIN ID: BIXA (850) 380-3458
 BRETT SURLES
 1636 EAGLE ST
 CANTONMENT, FL 32533
 UNITED STATES US

TO EUROFINS TEST AMERICA PA

301 ALPHA DR
 RIDC PARK
 PITTSBURGH PA 15238

(412) 968-7058 REF1
 INVT 201 DEPT1



3 of 3
 WED - 10 MAR 4:30P
 STANDARD OVERNIGHT
 AHS 15238
 PA-US PIT

MPS# 7845 5062 8628
 Metr# 7845 5062 8606
XH AGCA

Uncorrected temp 16 °C
 Thermometer ID 14
 CF 0 Initials Y

PT-WI-SR-001 effective 11/8/18

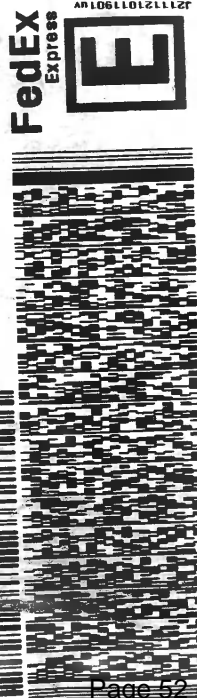
Part # 156297-156297-01/22

ORIGIN ID: BIXA (850) 380-3458
 BRETT SURLES
 1636 EAGLE ST
 CANTONMENT, FL 32533
 UNITED STATES US

EUROFINS TEST AMERICA PA

301 ALPHA DR
 RIDC PARK
 PITTSBURGH PA 15238

(412) 968-7058 REF1
 INVT 201 DEPT1



2 of 3
 WED - 10 MAR 4:30P
 STANDARD OVERNIGHT
 AHS 15238
 PA-US PIT

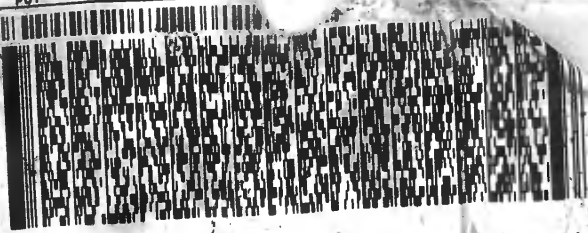
MPS# 7845 5062 8617
 Metr# 7845 5062 8606
XH AGCA

Uncorrected temp 22 °C
 Thermometer ID 14
 CF 0 Initials J

PT-WI-SR-001 effective 11/8/18

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(412) 963-7000
INVT
PQ1



3 of 4
MPS# 7845 7874 5410
0263
Mstr# 7845 7874 5394

THU - 11 MAR 10:30A
PRIORITY OVERNIGHT

ORIGIN ID
RICK HAGE
5720 DOVE
MILTON, PA
UNITED STA
TO TEST
301 AL
PITTS

XH AGCA
Uncorrected temp
Thermometer ID

2.8 °C
14

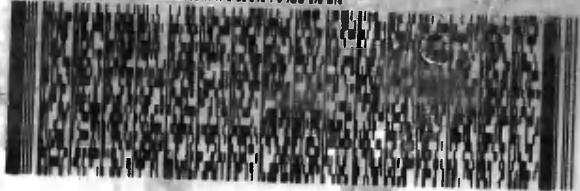
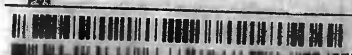
15238
PA-US PIT

CF _____ Initials _____
PT-WI-SR-001 effective 11/8/18



(412) 963-7068
INVT
PQ1

REF:



FedEx
Express



4211121011000

1 of 4
TRK# 7845 7874 5394
0201
MASTER

THU - 11 MAR 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238
PA-US PIT

Uncorrected temp 3.7 °C
Thermometer ID 14
CF 0 Initials ly
PT-WI-SR-001 effective 11/8/18



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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118143-2

Login Number: 118143

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118143-2

Login Number: 118143

List Number: 2

Creator: O'Gara, Mallory L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 03/13/21 10:39 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118143-2

Login Number: 118244

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118143-2

Login Number: 118244

List Number: 2

Creator: O'Gara, Mallory L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 03/13/21 10:17 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-119924-1

Client Project/Site: Plant Watson Surfacewater

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
6/15/2021 12:18:13 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through
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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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Job ID: 180-119924-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-119924-1

Comments

No additional comments.

Receipt

The samples were received on 4/14/2021 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 14 coolers at receipt time were 2.3° C, 2.4° C, 2.6° C, 2.6° C, 2.7° C, 2.8° C, 2.9° C, 3.4° C, 3.6° C, 3.6° C, 3.7° C, 3.7° C, 3.7° C and 3.8° C.

GC Semi VOA

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-353596 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 300.0: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 180-353597 were low outside control limits for Chloride in the MS and high outside control limits for Fluoride: (180-119924-C-37 MS) and (180-119924-C-37 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

Metals

Method 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-354215 and analytical batch 180-354475 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 7470A: The method blank for preparation batch 180-354242 contained mercury above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

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

General Chemistry

Method SM 2320B: The low-level laboratory control sample (LLCS) for analytical batch 180-357261 recovered outside control limits for the following analytes: Alkalinity. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method SM 2320B: Due to a software glitch the correct concentration for Alkalinity for the affected samples could not be determined. The results reported are biased high for the following samples: (LLCS 180-357261/76)

Method SM 2320B: Due to a software glitch the correct concentration for Alkalinity for the low-level laboratory control sample (LLCS) associated with the following samples could not be determined. The associated laboratory control sample (LCS) met acceptance criteria. SW-9-4' (180-119924-25), SW-9-4' FF (180-119924-26), SW-10-2' (180-119924-27), SW-10-2' FF (180-119924-28), SW-11-1' (180-119924-29), SW-11-1' FF (180-119924-30), SW-12-1' (180-119924-31), SW-12-1' FF (180-119924-32), SW-13-1' (180-119924-33), SW-13-1' FF (180-119924-34), SW-14-1.5" (180-119924-35), SW-14-1.5" FF (180-119924-36), SW-15-1.5" (180-119924-37), SW-15-1.5" FF (180-119924-38) and SW-16-1.5" (180-119924-39)

Method SM 2320B: The low-level laboratory control sample (LLCS) for analytical batch 180-357261 recovered outside control limits for the following analytes: Alkalinity. The samples were outside of the analytical holding time and were not reanalyzed. The results may be biased high.

Method SM 2320B: Due to a software glitch the correct concentration for Alkalinity for the affected samples could not be determined. The results reported are biased high for the following samples: (LLCS 180-357758/4)

Method SM 2320B: Due to a software glitch the correct concentration for Alkalinity for the associated low-level laboratory control sample

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Job ID: 180-119924-1 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

(LLCS) could not be determined. The laboratory control sample (LCS) met acceptance limits.: DUP-02-FF (180-119924-46), DUP-03 (180-119924-47) and DUP-03-FF (180-119924-48)

Method SM 2320B: The following samples were analyzed outside of analytical holding time due to the lab was unable to locate the samples before holding time expired. .EB-01 (180-119924-49) and EB-02 (180-119924-50).

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

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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21
California	State	2891	04-30-21 *
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-03-21
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-21
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-21 *
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	07-31-21
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-21
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-21 *
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	05-30-22
Texas	NELAP	T104704528	03-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-21
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-21

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



Sample Summary

Client: Southern Company
 Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-119924-1	SW-1-1'	Water	04/12/21 18:25	04/14/21 09:00	
180-119924-2	SW-1-1' FF	Water	04/12/21 18:35	04/14/21 09:00	
180-119924-3	SW-1-7'	Water	04/12/21 19:00	04/14/21 09:00	
180-119924-4	SW-1-7' FF	Water	04/12/21 19:15	04/14/21 09:00	
180-119924-5	SW-2-1'	Water	04/12/21 19:30	04/14/21 09:00	
180-119924-6	SW-2-1' FF	Water	04/12/21 19:40	04/14/21 09:00	
180-119924-7	SW-2-7'	Water	04/12/21 16:50	04/14/21 09:00	
180-119924-8	SW-2-7' FF	Water	04/12/21 20:00	04/14/21 09:00	
180-119924-9	SW-3-1'	Water	04/12/21 11:50	04/14/21 09:00	
180-119924-10	SW-3-1' FF	Water	04/12/21 11:55	04/14/21 09:00	
180-119924-11	SW-3-4'	Water	04/12/21 12:10	04/14/21 09:00	
180-119924-12	SW-3-4' FF	Water	04/12/21 12:20	04/14/21 09:00	
180-119924-13	SW-4-1.5"	Water	04/12/21 12:50	04/14/21 09:00	
180-119924-14	SW-4-1.5" FF	Water	04/12/21 13:00	04/14/21 09:00	
180-119924-15	SW-5-1'	Water	04/12/21 14:15	04/14/21 09:00	
180-119924-16	SW-5-1' FF	Water	04/12/21 14:25	04/14/21 09:00	
180-119924-17	SW-5-13'	Water	04/12/21 14:40	04/14/21 09:00	
180-119924-18	SW-5-13' FF	Water	04/12/21 14:55	04/14/21 09:00	
180-119924-19	SW-6-1'	Water	04/12/21 12:40	04/14/21 09:00	
180-119924-20	SW-6-1' FF	Water	04/12/21 12:55	04/14/21 09:00	
180-119924-21	SW-6-9.5"	Water	04/12/21 13:15	04/14/21 09:00	
180-119924-22	SW-6-9.5" FF	Water	04/12/21 13:25	04/14/21 09:00	
180-119924-23	SW-9-1'	Water	04/12/21 15:25	04/14/21 09:00	
180-119924-24	SW-9-1' FF	Water	04/12/21 15:35	04/14/21 09:00	
180-119924-25	SW-9-4'	Water	04/12/21 15:55	04/14/21 09:00	
180-119924-26	SW-9-4' FF	Water	04/12/21 16:05	04/14/21 09:00	
180-119924-27	SW-10-2'	Water	04/12/21 16:35	04/14/21 09:00	
180-119924-28	SW-10-2' FF	Water	04/12/21 16:45	04/14/21 09:00	
180-119924-29	SW-11-1'	Water	04/12/21 17:15	04/14/21 09:00	
180-119924-30	SW-11-1' FF	Water	04/12/21 17:25	04/14/21 09:00	
180-119924-31	SW-12-1'	Water	04/12/21 18:10	04/14/21 09:00	
180-119924-32	SW-12-1' FF	Water	04/12/21 18:20	04/14/21 09:00	
180-119924-33	SW-13-1'	Water	04/12/21 14:20	04/14/21 09:00	
180-119924-34	SW-13-1' FF	Water	04/12/21 14:30	04/14/21 09:00	
180-119924-35	SW-14-1.5"	Water	04/12/21 14:55	04/14/21 09:00	
180-119924-36	SW-14-1.5" FF	Water	04/12/21 15:05	04/14/21 09:00	
180-119924-37	SW-15-1.5"	Water	04/12/21 15:35	04/14/21 09:00	
180-119924-38	SW-15-1.5" FF	Water	04/12/21 15:45	04/14/21 09:00	
180-119924-39	SW-16-1.5"	Water	04/12/21 16:10	04/14/21 09:00	
180-119924-40	SW-16-1.5" FF	Water	04/12/21 16:20	04/14/21 09:00	
180-119924-41	SW-17-1'	Water	04/12/21 12:50	04/14/21 09:00	
180-119924-42	SW-17-1' FF	Water	04/12/21 13:00	04/14/21 09:00	
180-119924-43	DUP-010	Water	04/12/21 11:40	04/14/21 09:00	
180-119924-44	DUP-01-FF	Water	04/12/21 11:55	04/14/21 09:00	
180-119924-45	DUP-02	Water	04/12/21 16:15	04/14/21 09:00	
180-119924-46	DUP-02-FF	Water	04/12/21 16:25	04/14/21 09:00	
180-119924-47	DUP-03	Water	04/12/21 17:25	04/14/21 09:00	
180-119924-48	DUP-03-FF	Water	04/12/21 17:35	04/14/21 09:00	
180-119924-49	EB-01	Water	04/12/21 10:30	04/14/21 09:00	
180-119924-50	EB-02	Water	04/12/21 19:30	04/14/21 09:00	

Method Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

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

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

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-1-1'
Date Collected: 04/12/21 18:25
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			353756	04/20/21 12:28	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	354079	04/21/21 16:06	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			355148	04/29/21 10:51	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	354154	04/22/21 09:30	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354360	04/23/21 10:55	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353275	04/15/21 17:53	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/21/21 17:55	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-1-1' FF
Date Collected: 04/12/21 18:35
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			353748	04/20/21 12:33	EPS	TAL PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			50 mL	50 mL	354079	04/21/21 16:06	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			355148	04/29/21 10:54	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	354154	04/22/21 09:30	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354360	04/23/21 11:01	KHM	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/21/21 18:13	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-1-7'
Date Collected: 04/12/21 19:00
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			353748	04/20/21 11:44	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354079	04/21/21 16:06	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			355148	04/29/21 10:58	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	354154	04/22/21 09:30	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354360	04/23/21 10:56	KHM	TAL PIT
Instrument ID: HGY										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-1-7'
Date Collected: 04/12/21 19:00
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353275	04/15/21 17:53	KMM	TAL PIT
Total/NA	Analysis	SM2320 B		1			357261	04/21/21 18:22	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-1-7' FF
Date Collected: 04/12/21 19:15
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			353748	04/20/21 11:28	EPS	TAL PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			50 mL	50 mL	354079	04/21/21 16:06	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			355148	04/29/21 11:02	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			50 mL	50 mL	354154	04/22/21 09:30	MM1	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354360	04/23/21 11:02	KHM	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/21/21 18:31	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-2-1'
Date Collected: 04/12/21 19:30
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			353748	04/20/21 11:12	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354079	04/21/21 16:06	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			355148	04/29/21 11:05	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	354154	04/22/21 09:30	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354360	04/23/21 11:00	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353275	04/15/21 17:53	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/21/21 18:40	REI	TAL PIT
Instrument ID: PCTITRATOR										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-2-1' FF
Date Collected: 04/12/21 19:40
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			353748	04/20/21 10:55	EPS	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	354079	04/21/21 16:06	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			355148	04/29/21 11:16	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			354475	04/24/21 10:58	KHM	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Dissolved	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			357261	04/21/21 18:49	REI	TAL PIT

Client Sample ID: SW-2-7'
Date Collected: 04/12/21 16:50
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		1			353748	04/20/21 10:39	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	354079	04/21/21 16:06	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			355148	04/29/21 11:20	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			354475	04/24/21 11:02	KHM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	353275	04/15/21 17:53	KMM	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			357261	04/21/21 18:58	REI	TAL PIT

Client Sample ID: SW-2-7' FF
Date Collected: 04/12/21 20:00
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			354690	04/27/21 20:08	EPS	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	354079	04/21/21 16:06	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			355148	04/29/21 11:23	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			354475	04/24/21 11:03	KHM	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-2-7' FF

Lab Sample ID: 180-119924-8

Date Collected: 04/12/21 20:00

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Dissolved	Analysis	SM2320 B		1			357261	04/21/21 19:08	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-3-1'

Lab Sample ID: 180-119924-9

Date Collected: 04/12/21 11:50

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			354690	04/27/21 22:03	EPS	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	354079	04/21/21 16:06	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			355148	04/29/21 11:27	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354475	04/24/21 11:04	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353275	04/15/21 17:53	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/21/21 19:18	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-3-1' FF

Lab Sample ID: 180-119924-10

Date Collected: 04/12/21 11:55

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			354690	04/27/21 22:19	EPS	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			50 mL	50 mL	354079	04/21/21 16:06	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			355148	04/29/21 11:38	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354475	04/24/21 11:06	KHM	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/21/21 20:14	REI	TAL PIT
Instrument ID: PCTITRATOR										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-3-4'
Date Collected: 04/12/21 12:10
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			354690	04/27/21 22:35	EPS	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	354079	04/21/21 16:06	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			355148	04/29/21 11:41	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354475	04/24/21 11:07	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353275	04/15/21 17:53	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/21/21 20:32	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-3-4' FF
Date Collected: 04/12/21 12:20
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			354690	04/27/21 22:52	EPS	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			50 mL	50 mL	354079	04/21/21 16:06	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			355148	04/29/21 11:45	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354475	04/24/21 11:10	KHM	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/21/21 20:42	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-4-1.5"
Date Collected: 04/12/21 12:50
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			353756	04/20/21 10:23	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354830	04/28/21 00:20	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354987	04/28/21 17:58	RSK	TAL PIT
Instrument ID: NEMO										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-4-1.5"

Lab Sample ID: 180-119924-13

Date Collected: 04/12/21 12:50

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354475	04/24/21 11:11	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353275	04/15/21 17:53	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/21/21 20:51	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-4-1.5" FF

Lab Sample ID: 180-119924-14

Date Collected: 04/12/21 13:00

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			353748	04/20/21 09:50	EPS	TAL PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354830	04/28/21 00:23	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354987	04/28/21 18:01	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354475	04/24/21 11:12	KHM	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/21/21 21:00	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-5-1'

Lab Sample ID: 180-119924-15

Date Collected: 04/12/21 14:15

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			354690	04/27/21 23:08	EPS	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354830	04/28/21 00:25	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354987	04/28/21 18:03	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354475	04/24/21 11:16	KHM	TAL PIT
Instrument ID: HGY										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-5-1'
Date Collected: 04/12/21 14:15
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353275	04/15/21 17:53	KMM	TAL PIT
Total/NA	Analysis	SM2320 B		1			357261	04/21/21 21:09	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-5-1' FF
Date Collected: 04/12/21 14:25
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			353596	04/20/21 05:39	SAT	TAL PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354830	04/28/21 00:28	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354987	04/28/21 18:06	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354475	04/24/21 11:17	KHM	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/21/21 21:37	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-5-13'
Date Collected: 04/12/21 14:40
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			353596	04/20/21 05:23	SAT	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354830	04/28/21 00:31	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354987	04/28/21 18:09	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354475	04/24/21 11:18	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353275	04/15/21 17:53	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/21/21 21:54	REI	TAL PIT
Instrument ID: PCTITRATOR										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-5-13' FF

Lab Sample ID: 180-119924-18

Date Collected: 04/12/21 14:55

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			353596	04/20/21 05:07	SAT	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: NEMO		1			354830	04/28/21 00:34	RSK	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: NEMO		1			354987	04/28/21 18:12	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			354475	04/24/21 11:19	KHM	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Dissolved	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			357261	04/21/21 22:03	REI	TAL PIT

Client Sample ID: SW-6-1'

Lab Sample ID: 180-119924-19

Date Collected: 04/12/21 12:40

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		1			353596	04/20/21 04:52	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			354830	04/28/21 00:36	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			354987	04/28/21 18:14	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			354475	04/24/21 11:20	KHM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	353275	04/15/21 17:53	KMM	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			357261	04/21/21 22:12	REI	TAL PIT

Client Sample ID: SW-6-1' FF

Lab Sample ID: 180-119924-20

Date Collected: 04/12/21 12:55

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			353596	04/20/21 04:03	SAT	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-6-1' FF
Date Collected: 04/12/21 12:55
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354830	04/28/21 00:39	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354987	04/28/21 18:23	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354475	04/24/21 11:21	KHM	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/21/21 22:22	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-6-9.5"
Date Collected: 04/12/21 13:15
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			353596	04/20/21 03:46	SAT	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354830	04/28/21 00:47	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354987	04/28/21 18:25	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354475	04/24/21 11:22	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353275	04/15/21 17:53	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/21/21 22:31	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-6-9.5" FF
Date Collected: 04/12/21 13:25
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			353596	04/20/21 03:30	SAT	TAL PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354830	04/28/21 00:50	RSK	TAL PIT
Instrument ID: NEMO										

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Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-6-9.5" FF

Lab Sample ID: 180-119924-22

Date Collected: 04/12/21 13:25

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354987	04/28/21 18:28	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354475	04/24/21 11:23	KHM	TAL PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/21/21 22:41	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-9-1'

Lab Sample ID: 180-119924-23

Date Collected: 04/12/21 15:25

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			353596	04/20/21 03:14	SAT	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354830	04/28/21 01:03	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354987	04/28/21 18:41	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	354215	04/23/21 12:36	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354475	04/24/21 11:24	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/21/21 22:50	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-9-1' FF

Lab Sample ID: 180-119924-24

Date Collected: 04/12/21 15:35

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			353596	04/20/21 02:57	SAT	TAL PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354830	04/28/21 01:06	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354987	04/28/21 18:44	RSK	TAL PIT
Instrument ID: NEMO										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-9-1' FF
Date Collected: 04/12/21 15:35
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			25 mL	25 mL	354242	04/23/21 12:36	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354475	04/24/21 11:47	KHM	TAL PIT
		Instrument ID: HGY								
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
		Instrument ID: NOEQUIP								
Dissolved	Analysis	SM2320 B		1			357261	04/21/21 23:00	REI	TAL PIT
		Instrument ID: PCTITRATOR								

Client Sample ID: SW-9-4'
Date Collected: 04/12/21 15:55
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	353597	04/20/21 04:16	SAT	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354830	04/28/21 01:09	RSK	TAL PIT
		Instrument ID: NEMO								
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354987	04/28/21 18:52	RSK	TAL PIT
		Instrument ID: NEMO								
Total/NA	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354753	04/27/21 11:25	KHM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			357261	04/21/21 23:55	REI	TAL PIT
		Instrument ID: PCTITRATOR								

Client Sample ID: SW-9-4' FF
Date Collected: 04/12/21 16:05
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1	1 mL	1.0 mL	353597	04/20/21 03:59	SAT	TAL PIT
		Instrument ID: CHICS2100B								
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354830	04/28/21 01:17	RSK	TAL PIT
		Instrument ID: NEMO								
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354987	04/28/21 18:55	RSK	TAL PIT
		Instrument ID: NEMO								
Dissolved	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354753	04/27/21 11:26	KHM	TAL PIT
		Instrument ID: HGZ								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-9-4' FF

Lab Sample ID: 180-119924-26

Date Collected: 04/12/21 16:05

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Dissolved	Analysis	SM2320 B		1			357261	04/22/21 00:14	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-10-2'

Lab Sample ID: 180-119924-27

Date Collected: 04/12/21 16:35

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	353597	04/20/21 03:43	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354830	04/28/21 01:20	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354987	04/28/21 18:57	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354753	04/27/21 11:27	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/22/21 00:23	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-10-2' FF

Lab Sample ID: 180-119924-28

Date Collected: 04/12/21 16:45

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1	1 mL	1.0 mL	353597	04/20/21 03:27	SAT	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354830	04/28/21 01:22	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354987	04/28/21 19:00	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	7470A			25 mL	25 mL	354413	04/26/21 11:02	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354753	04/27/21 11:31	KHM	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/22/21 00:33	REI	TAL PIT
Instrument ID: PCTITRATOR										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-11-1'

Lab Sample ID: 180-119924-29

Date Collected: 04/12/21 17:15

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	353597	04/20/21 02:38	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354830	04/28/21 01:25	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354987	04/28/21 19:03	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	354413	04/26/21 11:02	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354753	04/27/21 11:32	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/22/21 00:42	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-11-1' FF

Lab Sample ID: 180-119924-30

Date Collected: 04/12/21 17:25

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1	1 mL	1.0 mL	353597	04/20/21 02:21	SAT	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354830	04/28/21 01:28	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354987	04/28/21 19:06	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	7470A			25 mL	25 mL	354413	04/26/21 11:02	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354753	04/27/21 11:33	KHM	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/22/21 00:51	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-12-1'

Lab Sample ID: 180-119924-31

Date Collected: 04/12/21 18:10

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	353597	04/20/21 02:05	SAT	TAL PIT
Instrument ID: CHICS2100B										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-12-1'

Lab Sample ID: 180-119924-31

Date Collected: 04/12/21 18:10

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354830	04/28/21 01:31	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354987	04/28/21 19:08	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	354413	04/26/21 11:02	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354753	04/27/21 11:34	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353452	04/16/21 16:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/22/21 01:18	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-12-1' FF

Lab Sample ID: 180-119924-32

Date Collected: 04/12/21 18:20

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1	1 mL	1.0 mL	353597	04/20/21 01:49	SAT	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354830	04/28/21 01:33	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	3005A			50 mL	50 mL	354077	04/21/21 15:47	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354987	04/28/21 19:11	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	7470A			25 mL	25 mL	354413	04/26/21 11:02	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354753	04/27/21 11:35	KHM	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/22/21 01:37	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-13-1'

Lab Sample ID: 180-119924-33

Date Collected: 04/12/21 14:20

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	353597	04/20/21 01:32	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354448	04/23/21 16:10	RSK	TAL PIT
Instrument ID: A										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-13-1'

Lab Sample ID: 180-119924-33

Date Collected: 04/12/21 14:20

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354993	04/28/21 17:17	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	354413	04/26/21 11:02	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354753	04/27/21 11:36	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/22/21 01:47	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-13-1' FF

Lab Sample ID: 180-119924-34

Date Collected: 04/12/21 14:30

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1	1 mL	1.0 mL	353597	04/19/21 23:21	SAT	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354448	04/23/21 16:14	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354993	04/28/21 17:21	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	354413	04/26/21 11:02	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354753	04/27/21 11:37	KHM	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/22/21 01:56	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-14-1.5"

Lab Sample ID: 180-119924-35

Date Collected: 04/12/21 14:55

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	353597	04/19/21 23:05	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354448	04/23/21 16:17	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354993	04/28/21 17:25	RSK	TAL PIT
Instrument ID: A										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-14-1.5"

Lab Sample ID: 180-119924-35

Date Collected: 04/12/21 14:55

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	354413	04/26/21 11:02	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354753	04/27/21 11:38	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/22/21 02:05	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-14-1.5" FF

Lab Sample ID: 180-119924-36

Date Collected: 04/12/21 15:05

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1	1 mL	1.0 mL	353597	04/19/21 22:49	SAT	TAL PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354448	04/23/21 16:21	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354993	04/28/21 17:28	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	354413	04/26/21 11:02	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354753	04/27/21 11:39	KHM	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/22/21 02:15	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-15-1.5"

Lab Sample ID: 180-119924-37

Date Collected: 04/12/21 15:35

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	353597	04/20/21 00:43	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354448	04/23/21 16:24	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354993	04/28/21 17:32	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354753	04/27/21 11:00	KHM	TAL PIT
Instrument ID: HGZ										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-15-1.5"

Lab Sample ID: 180-119924-37

Date Collected: 04/12/21 15:35

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Total/NA	Analysis	SM2320 B		1			357261	04/22/21 02:25	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-15-1.5" FF

Lab Sample ID: 180-119924-38

Date Collected: 04/12/21 15:45

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			353596	04/20/21 02:08	SAT	TAL PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354448	04/23/21 16:28	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354993	04/28/21 17:43	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354753	04/27/21 11:04	KHM	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/22/21 02:34	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: SW-16-1.5"

Lab Sample ID: 180-119924-39

Date Collected: 04/12/21 16:10

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			353598	04/19/21 21:15	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354448	04/23/21 16:32	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354993	04/28/21 17:46	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354753	04/27/21 11:05	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/22/21 02:44	REI	TAL PIT
Instrument ID: PCTITRATOR										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-16-1.5" FF
Date Collected: 04/12/21 16:20
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-40
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			353598	04/19/21 20:57	SAT	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			354448	04/23/21 16:42	RSK	TAL PIT
Dissolved	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			354993	04/28/21 17:50	RSK	TAL PIT
Dissolved	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGZ		1			354753	04/27/21 11:06	KHM	TAL PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Dissolved	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			357261	04/22/21 03:39	REI	TAL PIT

Client Sample ID: SW-17-1'
Date Collected: 04/12/21 12:50
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-41
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		1			353598	04/19/21 20:03	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			354448	04/23/21 16:46	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			354993	04/28/21 17:53	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			354753	04/27/21 11:07	KHM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			357261	04/22/21 03:59	REI	TAL PIT

Client Sample ID: SW-17-1' FF
Date Collected: 04/12/21 13:00
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-42
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			353598	04/19/21 19:45	SAT	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-17-1' FF
Date Collected: 04/12/21 13:00
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-42
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354448	04/23/21 16:50	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354993	04/28/21 17:57	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354753	04/27/21 11:08	KHM	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/22/21 04:08	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: DUP-010
Date Collected: 04/12/21 11:40
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-43
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			353598	04/19/21 19:27	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354448	04/23/21 17:07	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354993	04/28/21 18:01	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354753	04/27/21 11:09	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/22/21 04:18	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: DUP-01-FF
Date Collected: 04/12/21 11:55
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-44
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			353598	04/19/21 19:10	SAT	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354448	04/23/21 17:11	RSK	TAL PIT
Instrument ID: A										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: DUP-01-FF

Lab Sample ID: 180-119924-44

Date Collected: 04/12/21 11:55

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354993	04/28/21 18:26	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354753	04/27/21 11:10	KHM	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357261	04/22/21 04:28	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: DUP-02

Lab Sample ID: 180-119924-45

Date Collected: 04/12/21 16:15

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			353598	04/19/21 18:52	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354448	04/23/21 17:22	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354993	04/28/21 18:29	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354643	04/24/21 11:56	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354753	04/27/21 11:11	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357261	04/22/21 04:37	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: DUP-02-FF

Lab Sample ID: 180-119924-46

Date Collected: 04/12/21 16:25

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			353598	04/19/21 16:11	SAT	TAL PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354448	04/23/21 17:25	RSK	TAL PIT
Instrument ID: A										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: DUP-02-FF

Lab Sample ID: 180-119924-46

Date Collected: 04/12/21 16:25

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354993	04/28/21 18:33	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354643	04/24/21 11:58	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354753	04/27/21 11:12	KHM	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357758	04/26/21 12:04	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: DUP-03

Lab Sample ID: 180-119924-47

Date Collected: 04/12/21 17:25

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			353598	04/19/21 15:53	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354448	04/23/21 17:29	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354993	04/28/21 18:36	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354643	04/24/21 12:01	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354753	04/27/21 11:13	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			357758	04/26/21 12:18	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: DUP-03-FF

Lab Sample ID: 180-119924-48

Date Collected: 04/12/21 17:35

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 300.0 R2.1		1			353598	04/19/21 15:35	SAT	TAL PIT
Instrument ID: INTEGRION										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: DUP-03-FF

Lab Sample ID: 180-119924-48

Date Collected: 04/12/21 17:35

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354448	04/23/21 17:33	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354993	04/28/21 18:40	RSK	TAL PIT
Instrument ID: A										
Dissolved	Prep	3005A			50 mL	50 mL	354078	04/21/21 15:56	TLP	TAL PIT
Dissolved	Analysis	EPA 6020B		1			354643	04/24/21 12:04	RSK	TAL PIT
Instrument ID: NEMO										
Dissolved	Prep	7470A			25 mL	25 mL	354412	04/24/21 08:55	KHM	TAL PIT
Dissolved	Analysis	EPA 7470A		1			354753	04/27/21 11:16	KHM	TAL PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Dissolved	Analysis	SM2320 B		1			357758	04/26/21 12:25	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: EB-01

Lab Sample ID: 180-119924-49

Date Collected: 04/12/21 10:30

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			353598	04/19/21 17:40	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 16:00	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354448	04/23/21 17:36	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354993	04/28/21 18:44	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 16:00	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354643	04/24/21 12:07	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	354242	04/23/21 12:36	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354475	04/24/21 11:48	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			358706	05/27/21 12:03	RSR	TAL PIT
Instrument ID: PCTITRATOR										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: EB-02
Date Collected: 04/12/21 19:30
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-50
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			353598	04/19/21 17:22	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 16:00	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354448	04/23/21 17:40	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354657	04/27/21 08:50	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354993	04/28/21 18:47	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	354078	04/21/21 16:00	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			354643	04/24/21 12:09	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	354242	04/23/21 12:36	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			354475	04/24/21 11:49	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353453	04/16/21 16:29	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			358706	05/27/21 12:09	RSR	TAL PIT
Instrument ID: PCTITRATOR										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

- KHM = Kyle Mucroski
- MM1 = Mary Beth Miller
- RJR = Ron Rosenbaum
- TLP = Tara Peterson

Batch Type: Analysis

- EPS = Evan Scheuer
- KHM = Kyle Mucroski
- KMM = Kendric Moore
- REI = Rachel Innocenzi
- RSK = Robert Kurtz
- RSR = Roseann Ruyechan
- SAT = Stephen Tallam

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-1-1'

Lab Sample ID: 180-119924-1

Date Collected: 04/12/21 18:25

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.71	mg/L			04/20/21 12:28	1
Fluoride	<0.026		0.20	0.026	mg/L			04/20/21 12:28	1
Sulfate	2.8		1.0	0.76	mg/L			04/20/21 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00038	J	0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 10:51	1
Arsenic	0.00079	J	0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 10:51	1
Barium	0.018		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 10:51	1
Beryllium	0.00028	J	0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 10:51	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 10:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 10:51	1
Calcium	1.6		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 10:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 10:51	1
Cobalt	0.0010	J B	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 10:51	1
Lead	0.0012		0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 10:51	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 10:51	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 10:51	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 10:51	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 10:51	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/22/21 09:30	04/23/21 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	48		10	10	mg/L			04/15/21 17:53	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/21/21 17:55	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 17:55	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 17:55	1

Client Sample ID: SW-1-1' FF

Lab Sample ID: 180-119924-2

Date Collected: 04/12/21 18:35

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	16		1.0	0.71	mg/L			04/20/21 12:33	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/20/21 12:33	1
Sulfate, Dissolved	3.6		1.0	0.76	mg/L			04/20/21 12:33	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 10:54	1
Arsenic, Dissolved	0.00050	J	0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 10:54	1
Barium, Dissolved	0.014		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 10:54	1
Beryllium, Dissolved	0.00020	J	0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 10:54	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 10:54	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 10:54	1
Calcium, Dissolved	1.6		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 10:54	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-1-1' FF

Lab Sample ID: 180-119924-2

Date Collected: 04/12/21 18:35

Matrix: Water

Date Received: 04/14/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 10:54	1
Cobalt, Dissolved	0.00076	J B	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 10:54	1
Lead, Dissolved	0.00048	J	0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 10:54	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 10:54	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 10:54	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 10:54	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 10:54	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/22/21 09:30	04/23/21 11:01	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	57		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	5.3		5.0	5.0	mg/L			04/21/21 18:13	1
Bicarbonate Alkalinity as CaCO3, Dissolved	5.3		5.0	5.0	mg/L			04/21/21 18:13	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 18:13	1

Client Sample ID: SW-1-7'

Lab Sample ID: 180-119924-3

Date Collected: 04/12/21 19:00

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		1.0	0.71	mg/L			04/20/21 11:44	1
Fluoride	<0.026		0.20	0.026	mg/L			04/20/21 11:44	1
Sulfate	3.6		1.0	0.76	mg/L			04/20/21 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00040	J	0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 10:58	1
Arsenic	0.00081	J	0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 10:58	1
Barium	0.018		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 10:58	1
Beryllium	0.00020	J	0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 10:58	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 10:58	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 10:58	1
Calcium	1.7		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 10:58	1
Chromium	0.0017	J	0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 10:58	1
Cobalt	0.00097	J B	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 10:58	1
Lead	0.0012		0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 10:58	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 10:58	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 10:58	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 10:58	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 10:58	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/22/21 09:30	04/23/21 10:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-1-7'

Lab Sample ID: 180-119924-3

Date Collected: 04/12/21 19:00

Matrix: Water

Date Received: 04/14/21 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	66		10	10	mg/L			04/15/21 17:53	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/21/21 18:22	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 18:22	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 18:22	1

Client Sample ID: SW-1-7' FF

Lab Sample ID: 180-119924-4

Date Collected: 04/12/21 19:15

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	15		1.0	0.71	mg/L			04/20/21 11:28	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/20/21 11:28	1
Sulfate, Dissolved	3.5		1.0	0.76	mg/L			04/20/21 11:28	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 11:02	1
Arsenic, Dissolved	0.00057	J	0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 11:02	1
Barium, Dissolved	0.015		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 11:02	1
Beryllium, Dissolved	0.00020	J	0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 11:02	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 11:02	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 11:02	1
Calcium, Dissolved	1.7		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 11:02	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 11:02	1
Cobalt, Dissolved	0.00076	J B	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 11:02	1
Lead, Dissolved	0.00049	J	0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 11:02	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 11:02	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 11:02	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 11:02	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 11:02	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/22/21 09:30	04/23/21 11:02	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	60		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 18:31	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 18:31	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 18:31	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-2-1'

Lab Sample ID: 180-119924-5

Date Collected: 04/12/21 19:30

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		1.0	0.71	mg/L			04/20/21 11:12	1
Fluoride	<0.026		0.20	0.026	mg/L			04/20/21 11:12	1
Sulfate	3.8		1.0	0.76	mg/L			04/20/21 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 11:05	1
Arsenic	0.00069	J	0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 11:05	1
Barium	0.018		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 11:05	1
Beryllium	0.00023	J	0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 11:05	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 11:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 11:05	1
Calcium	1.8		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 11:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 11:05	1
Cobalt	0.00090	J B	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 11:05	1
Lead	0.0010		0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 11:05	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 11:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 11:05	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 11:05	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 11:05	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/22/21 09:30	04/23/21 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	44		10	10	mg/L			04/15/21 17:53	1
Total Alkalinity as CaCO3 to pH 4.5	5.5		5.0	5.0	mg/L			04/21/21 18:40	1
Bicarbonate Alkalinity as CaCO3	5.5		5.0	5.0	mg/L			04/21/21 18:40	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 18:40	1

Client Sample ID: SW-2-1' FF

Lab Sample ID: 180-119924-6

Date Collected: 04/12/21 19:40

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	16		1.0	0.71	mg/L			04/20/21 10:55	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/20/21 10:55	1
Sulfate, Dissolved	3.8		1.0	0.76	mg/L			04/20/21 10:55	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 11:16	1
Arsenic, Dissolved	0.00045	J	0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 11:16	1
Barium, Dissolved	0.014		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 11:16	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 11:16	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 11:16	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 11:16	1
Calcium, Dissolved	1.7		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 11:16	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-2-1' FF

Lab Sample ID: 180-119924-6

Date Collected: 04/12/21 19:40

Matrix: Water

Date Received: 04/14/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 11:16	1
Cobalt, Dissolved	0.00075	J B	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 11:16	1
Lead, Dissolved	0.00048	J	0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 11:16	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 11:16	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 11:16	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 11:16	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 11:16	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 10:58	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	59		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 18:49	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 18:49	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 18:49	1

Client Sample ID: SW-2-7'

Lab Sample ID: 180-119924-7

Date Collected: 04/12/21 16:50

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		1.0	0.71	mg/L			04/20/21 10:39	1
Fluoride	<0.026		0.20	0.026	mg/L			04/20/21 10:39	1
Sulfate	3.7		1.0	0.76	mg/L			04/20/21 10:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00043	J	0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 11:20	1
Arsenic	0.00065	J	0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 11:20	1
Barium	0.018		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 11:20	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 11:20	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 11:20	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 11:20	1
Calcium	1.9		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 11:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 11:20	1
Cobalt	0.0010	J B	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 11:20	1
Lead	0.0013		0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 11:20	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 11:20	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 11:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 11:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 11:20	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/23/21 12:36	04/24/21 11:02	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-2-7'

Lab Sample ID: 180-119924-7

Date Collected: 04/12/21 16:50

Matrix: Water

Date Received: 04/14/21 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		10	10	mg/L			04/15/21 17:53	1
Total Alkalinity as CaCO3 to pH 4.5	5.5		5.0	5.0	mg/L			04/21/21 18:58	1
Bicarbonate Alkalinity as CaCO3	5.5		5.0	5.0	mg/L			04/21/21 18:58	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 18:58	1

Client Sample ID: SW-2-7' FF

Lab Sample ID: 180-119924-8

Date Collected: 04/12/21 20:00

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	14		1.0	0.71	mg/L			04/27/21 20:08	1
Fluoride, Dissolved	0.039	J	0.10	0.026	mg/L			04/27/21 20:08	1
Sulfate, Dissolved	3.8		1.0	0.76	mg/L			04/27/21 20:08	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 11:23	1
Arsenic, Dissolved	0.00035	J	0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 11:23	1
Barium, Dissolved	0.017		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 11:23	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 11:23	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 11:23	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 11:23	1
Calcium, Dissolved	1.8		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 11:23	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 11:23	1
Cobalt, Dissolved	0.00074	J B	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 11:23	1
Lead, Dissolved	0.00048	J	0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 11:23	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 11:23	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 11:23	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 11:23	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 11:23	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 11:03	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	44		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 19:08	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 19:08	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 19:08	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-3-1'

Lab Sample ID: 180-119924-9

Date Collected: 04/12/21 11:50

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28		1.0	0.71	mg/L			04/27/21 22:03	1
Fluoride	<0.026		0.20	0.026	mg/L			04/27/21 22:03	1
Sulfate	5.0		1.0	0.76	mg/L			04/27/21 22:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00039	J	0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 11:27	1
Arsenic	0.00065	J	0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 11:27	1
Barium	0.018		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 11:27	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 11:27	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 11:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 11:27	1
Calcium	2.2		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 11:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 11:27	1
Cobalt	0.00091	J B	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 11:27	1
Lead	0.0012		0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 11:27	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 11:27	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 11:27	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 11:27	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 11:27	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/23/21 12:36	04/24/21 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	56		10	10	mg/L			04/15/21 17:53	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/21/21 19:18	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 19:18	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 19:18	1

Client Sample ID: SW-3-1' FF

Lab Sample ID: 180-119924-10

Date Collected: 04/12/21 11:55

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	29		1.0	0.71	mg/L			04/27/21 22:19	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/27/21 22:19	1
Sulfate, Dissolved	5.1		1.0	0.76	mg/L			04/27/21 22:19	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 11:38	1
Arsenic, Dissolved	0.00048	J	0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 11:38	1
Barium, Dissolved	0.015		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 11:38	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 11:38	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 11:38	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 11:38	1
Calcium, Dissolved	2.0		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 11:38	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-3-1' FF

Lab Sample ID: 180-119924-10

Date Collected: 04/12/21 11:55

Matrix: Water

Date Received: 04/14/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 11:38	1
Cobalt, Dissolved	0.00071	J B	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 11:38	1
Lead, Dissolved	0.00045	J	0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 11:38	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 11:38	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 11:38	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 11:38	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 11:38	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 11:06	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	88		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	<5.0	*+	5.0	5.0	mg/L			04/21/21 20:14	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 20:14	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 20:14	1

Client Sample ID: SW-3-4'

Lab Sample ID: 180-119924-11

Date Collected: 04/12/21 12:10

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28		1.0	0.71	mg/L			04/27/21 22:35	1
Fluoride	<0.026		0.20	0.026	mg/L			04/27/21 22:35	1
Sulfate	4.8		1.0	0.76	mg/L			04/27/21 22:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 11:41	1
Arsenic	0.00072	J	0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 11:41	1
Barium	0.018		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 11:41	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 11:41	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 11:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 11:41	1
Calcium	2.1		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 11:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 11:41	1
Cobalt	0.00095	J B	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 11:41	1
Lead	0.0013		0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 11:41	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 11:41	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 11:41	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 11:41	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 11:41	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	F1	0.00020	0.00013	mg/L		04/23/21 12:36	04/24/21 11:07	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-3-4'

Lab Sample ID: 180-119924-11

Date Collected: 04/12/21 12:10

Matrix: Water

Date Received: 04/14/21 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	63		10	10	mg/L			04/15/21 17:53	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*+	5.0	5.0	mg/L			04/21/21 20:32	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 20:32	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 20:32	1

Client Sample ID: SW-3-4' FF

Lab Sample ID: 180-119924-12

Date Collected: 04/12/21 12:20

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	28		1.0	0.71	mg/L			04/27/21 22:52	1
Fluoride, Dissolved	0.030	J	0.10	0.026	mg/L			04/27/21 22:52	1
Sulfate, Dissolved	5.2		1.0	0.76	mg/L			04/27/21 22:52	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 11:45	1
Arsenic, Dissolved	0.00040	J	0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 11:45	1
Barium, Dissolved	0.015		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 11:45	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 11:45	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 11:45	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 11:45	1
Calcium, Dissolved	2.0		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 11:45	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 11:45	1
Cobalt, Dissolved	0.00077	J B	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 11:45	1
Lead, Dissolved	0.00046	J	0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 11:45	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 11:45	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 11:45	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 11:45	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 11:45	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 11:10	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	84		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	<5.0	*+	5.0	5.0	mg/L			04/21/21 20:42	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 20:42	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 20:42	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-4-1.5"

Lab Sample ID: 180-119924-13

Date Collected: 04/12/21 12:50

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2		1.0	0.71	mg/L			04/20/21 10:23	1
Fluoride	<0.026		0.20	0.026	mg/L			04/20/21 10:23	1
Sulfate	1.2		1.0	0.76	mg/L			04/20/21 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 00:20	1
Arsenic	0.00071	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 00:20	1
Barium	0.019		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 00:20	1
Beryllium	0.00037	J	0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 00:20	1
Boron	0.039	J	0.080	0.039	mg/L		04/21/21 15:47	04/28/21 17:58	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 00:20	1
Calcium	0.94		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 00:20	1
Chromium	0.0016	J	0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 00:20	1
Cobalt	0.0010	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 00:20	1
Lead	0.0012		0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 00:20	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 00:20	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 00:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 00:20	1
Thallium	0.00035	J	0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 00:20	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/23/21 12:36	04/24/21 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	14		10	10	mg/L			04/15/21 17:53	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*+	5.0	5.0	mg/L			04/21/21 20:51	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 20:51	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 20:51	1

Client Sample ID: SW-4-1.5" FF

Lab Sample ID: 180-119924-14

Date Collected: 04/12/21 13:00

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	3.8		1.0	0.71	mg/L			04/20/21 09:50	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/20/21 09:50	1
Sulfate, Dissolved	1.6		1.0	0.76	mg/L			04/20/21 09:50	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 00:23	1
Arsenic, Dissolved	<0.00031		0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 00:23	1
Barium, Dissolved	0.015		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 00:23	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 00:23	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:01	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 00:23	1
Calcium, Dissolved	0.87		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 00:23	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-4-1.5" FF

Lab Sample ID: 180-119924-14

Date Collected: 04/12/21 13:00

Matrix: Water

Date Received: 04/14/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 00:23	1
Cobalt, Dissolved	0.00073	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 00:23	1
Lead, Dissolved	0.00053	J	0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 00:23	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 00:23	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 00:23	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 00:23	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 00:23	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 11:12	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	16		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	<5.0	*+	5.0	5.0	mg/L			04/21/21 21:00	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 21:00	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 21:00	1

Client Sample ID: SW-5-1'

Lab Sample ID: 180-119924-15

Date Collected: 04/12/21 14:15

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.71	mg/L			04/27/21 23:08	1
Fluoride	0.029	J	0.20	0.026	mg/L			04/27/21 23:08	1
Sulfate	1.1		1.0	0.76	mg/L			04/27/21 23:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 00:25	1
Arsenic	0.00042	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 00:25	1
Barium	0.021		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 00:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 00:25	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:03	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 00:25	1
Calcium	0.92		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 00:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 00:25	1
Cobalt	0.00095	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 00:25	1
Lead	0.0011		0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 00:25	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 00:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 00:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 00:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 00:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/23/21 12:36	04/24/21 11:16	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-5-1'

Lab Sample ID: 180-119924-15

Date Collected: 04/12/21 14:15

Matrix: Water

Date Received: 04/14/21 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	16		10	10	mg/L			04/15/21 17:53	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*+	5.0	5.0	mg/L			04/21/21 21:09	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 21:09	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 21:09	1

Client Sample ID: SW-5-1' FF

Lab Sample ID: 180-119924-16

Date Collected: 04/12/21 14:25

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	2.8		1.0	0.71	mg/L			04/20/21 05:39	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/20/21 05:39	1
Sulfate, Dissolved	1.3		1.0	0.76	mg/L			04/20/21 05:39	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 00:28	1
Arsenic, Dissolved	0.00033	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 00:28	1
Barium, Dissolved	0.016		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 00:28	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 00:28	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:06	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 00:28	1
Calcium, Dissolved	0.87		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 00:28	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 00:28	1
Cobalt, Dissolved	0.00081	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 00:28	1
Lead, Dissolved	0.00051	J	0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 00:28	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 00:28	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 00:28	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 00:28	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 00:28	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 11:17	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	10		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	<5.0	*+	5.0	5.0	mg/L			04/21/21 21:37	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 21:37	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 21:37	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-5-13'

Lab Sample ID: 180-119924-17

Date Collected: 04/12/21 14:40

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			04/20/21 05:23	1
Fluoride	<0.026		0.20	0.026	mg/L			04/20/21 05:23	1
Sulfate	1.4		1.0	0.76	mg/L			04/20/21 05:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 00:31	1
Arsenic	0.00050	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 00:31	1
Barium	0.021		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 00:31	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 00:31	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:09	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 00:31	1
Calcium	0.95		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 00:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 00:31	1
Cobalt	0.00092	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 00:31	1
Lead	0.0011		0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 00:31	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 00:31	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 00:31	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 00:31	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 00:31	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/23/21 12:36	04/24/21 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	14		10	10	mg/L			04/15/21 17:53	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*+	5.0	5.0	mg/L			04/21/21 21:54	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 21:54	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 21:54	1

Client Sample ID: SW-5-13' FF

Lab Sample ID: 180-119924-18

Date Collected: 04/12/21 14:55

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	2.9		1.0	0.71	mg/L			04/20/21 05:07	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/20/21 05:07	1
Sulfate, Dissolved	1.4		1.0	0.76	mg/L			04/20/21 05:07	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 00:34	1
Arsenic, Dissolved	<0.00031		0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 00:34	1
Barium, Dissolved	0.016		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 00:34	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 00:34	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:12	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 00:34	1
Calcium, Dissolved	0.85		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 00:34	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-5-13' FF

Lab Sample ID: 180-119924-18

Date Collected: 04/12/21 14:55

Matrix: Water

Date Received: 04/14/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 00:34	1
Cobalt, Dissolved	0.00074	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 00:34	1
Lead, Dissolved	0.00050	J	0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 00:34	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 00:34	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 00:34	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 00:34	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 00:34	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 11:19	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	17		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	<5.0	*+	5.0	5.0	mg/L			04/21/21 22:03	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 22:03	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 22:03	1

Client Sample ID: SW-6-1'

Lab Sample ID: 180-119924-19

Date Collected: 04/12/21 12:40

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		1.0	0.71	mg/L			04/20/21 04:52	1
Fluoride	0.053	J	0.20	0.026	mg/L			04/20/21 04:52	1
Sulfate	14		1.0	0.76	mg/L			04/20/21 04:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 00:36	1
Arsenic	0.00088	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 00:36	1
Barium	0.016		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 00:36	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 00:36	1
Boron	0.041	J	0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:14	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 00:36	1
Calcium	6.7		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 00:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 00:36	1
Cobalt	0.00055	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 00:36	1
Lead	0.0010		0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 00:36	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 00:36	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 00:36	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 00:36	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 00:36	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/23/21 12:36	04/24/21 11:20	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-6-1'

Lab Sample ID: 180-119924-19

Date Collected: 04/12/21 12:40

Matrix: Water

Date Received: 04/14/21 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			04/15/21 17:53	1
Total Alkalinity as CaCO3 to pH 4.5	16		5.0	5.0	mg/L			04/21/21 22:12	1
Bicarbonate Alkalinity as CaCO3	16		5.0	5.0	mg/L			04/21/21 22:12	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 22:12	1

Client Sample ID: SW-6-1' FF

Lab Sample ID: 180-119924-20

Date Collected: 04/12/21 12:55

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	40		1.0	0.71	mg/L			04/20/21 04:03	1
Fluoride, Dissolved	0.034	J	0.10	0.026	mg/L			04/20/21 04:03	1
Sulfate, Dissolved	13		1.0	0.76	mg/L			04/20/21 04:03	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 00:39	1
Arsenic, Dissolved	0.00060	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 00:39	1
Barium, Dissolved	0.012		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 00:39	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 00:39	1
Boron, Dissolved	0.039	J	0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:23	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 00:39	1
Calcium, Dissolved	5.9		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 00:39	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 00:39	1
Cobalt, Dissolved	0.00043	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 00:39	1
Lead, Dissolved	0.00039	J	0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 00:39	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 00:39	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 00:39	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 00:39	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 00:39	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 11:21	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	120		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	15		5.0	5.0	mg/L			04/21/21 22:22	1
Bicarbonate Alkalinity as CaCO3, Dissolved	15		5.0	5.0	mg/L			04/21/21 22:22	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 22:22	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-6-9.5"

Lab Sample ID: 180-119924-21

Date Collected: 04/12/21 13:15

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40		1.0	0.71	mg/L			04/20/21 03:46	1
Fluoride	<0.026		0.20	0.026	mg/L			04/20/21 03:46	1
Sulfate	8.2		1.0	0.76	mg/L			04/20/21 03:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 00:47	1
Arsenic	0.00060	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 00:47	1
Barium	0.016		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 00:47	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 00:47	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 00:47	1
Calcium	2.4		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 00:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 00:47	1
Cobalt	0.00080	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 00:47	1
Lead	0.00098	J	0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 00:47	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 00:47	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 00:47	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 00:47	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 00:47	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/23/21 12:36	04/24/21 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	97		10	10	mg/L			04/15/21 17:53	1
Total Alkalinity as CaCO3 to pH 4.5	6.1	*+ cn	5.0	5.0	mg/L			04/21/21 22:31	1
Bicarbonate Alkalinity as CaCO3	6.1	cn	5.0	5.0	mg/L			04/21/21 22:31	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 22:31	1

Client Sample ID: SW-6-9.5" FF

Lab Sample ID: 180-119924-22

Date Collected: 04/12/21 13:25

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	41		1.0	0.71	mg/L			04/20/21 03:30	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/20/21 03:30	1
Sulfate, Dissolved	8.8		1.0	0.76	mg/L			04/20/21 03:30	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 00:50	1
Arsenic, Dissolved	0.00041	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 00:50	1
Barium, Dissolved	0.013		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 00:50	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 00:50	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:28	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 00:50	1
Calcium, Dissolved	2.8		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 00:50	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-6-9.5" FF

Lab Sample ID: 180-119924-22

Date Collected: 04/12/21 13:25

Matrix: Water

Date Received: 04/14/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 00:50	1
Cobalt, Dissolved	0.00061	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 00:50	1
Lead, Dissolved	0.00037	J	0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 00:50	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 00:50	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 00:50	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 00:50	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 00:50	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 11:23	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	110		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	6.2	*+ cn	5.0	5.0	mg/L			04/21/21 22:41	1
Bicarbonate Alkalinity as CaCO3, Dissolved	6.2	cn	5.0	5.0	mg/L			04/21/21 22:41	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 22:41	1

Client Sample ID: SW-9-1'

Lab Sample ID: 180-119924-23

Date Collected: 04/12/21 15:25

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.3		1.0	0.71	mg/L			04/20/21 03:14	1
Fluoride	<0.026		0.20	0.026	mg/L			04/20/21 03:14	1
Sulfate	2.5		1.0	0.76	mg/L			04/20/21 03:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 01:03	1
Arsenic	0.00075	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 01:03	1
Barium	0.018		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 01:03	1
Beryllium	0.00037	J	0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 01:03	1
Boron	0.040	J	0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 01:03	1
Calcium	1.4		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 01:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 01:03	1
Cobalt	0.00096	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 01:03	1
Lead	0.0011		0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 01:03	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 01:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 01:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 01:03	1
Thallium	0.00045	J	0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 01:03	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/23/21 12:36	04/24/21 11:24	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-9-1'

Lab Sample ID: 180-119924-23

Date Collected: 04/12/21 15:25

Matrix: Water

Date Received: 04/14/21 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	35		10	10	mg/L			04/16/21 16:22	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*+	5.0	5.0	mg/L			04/21/21 22:50	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 22:50	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 22:50	1

Client Sample ID: SW-9-1' FF

Lab Sample ID: 180-119924-24

Date Collected: 04/12/21 15:35

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	8.5		1.0	0.71	mg/L			04/20/21 02:57	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/20/21 02:57	1
Sulfate, Dissolved	2.3		1.0	0.76	mg/L			04/20/21 02:57	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 01:06	1
Arsenic, Dissolved	0.00040	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 01:06	1
Barium, Dissolved	0.015		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 01:06	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 01:06	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:44	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 01:06	1
Calcium, Dissolved	1.2		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 01:06	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 01:06	1
Cobalt, Dissolved	0.00072	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 01:06	1
Lead, Dissolved	0.00058	J	0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 01:06	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 01:06	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 01:06	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 01:06	1
Thallium, Dissolved	0.00016	J	0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 01:06	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 11:47	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	26		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	<5.0	*+	5.0	5.0	mg/L			04/21/21 23:00	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 23:00	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 23:00	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-9-4'

Lab Sample ID: 180-119924-25

Date Collected: 04/12/21 15:55

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24		1.0	0.71	mg/L			04/20/21 04:16	1
Fluoride	0.028	J	0.20	0.026	mg/L			04/20/21 04:16	1
Sulfate	5.0		1.0	0.76	mg/L			04/20/21 04:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 01:09	1
Arsenic	0.00083	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 01:09	1
Barium	0.020		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 01:09	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 01:09	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:52	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 01:09	1
Calcium	2.2		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 01:09	1
Chromium	0.0015	J	0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 01:09	1
Cobalt	0.00094	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 01:09	1
Lead	0.0011		0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 01:09	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 01:09	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 01:09	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 01:09	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 01:09	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/24/21 08:55	04/27/21 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	81		10	10	mg/L			04/16/21 16:22	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*+ cn	5.0	5.0	mg/L			04/21/21 23:55	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 23:55	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 23:55	1

Client Sample ID: SW-9-4' FF

Lab Sample ID: 180-119924-26

Date Collected: 04/12/21 16:05

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	8.3		1.0	0.71	mg/L			04/20/21 03:59	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/20/21 03:59	1
Sulfate, Dissolved	2.6		1.0	0.76	mg/L			04/20/21 03:59	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 01:17	1
Arsenic, Dissolved	0.00034	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 01:17	1
Barium, Dissolved	0.015		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 01:17	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 01:17	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:55	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 01:17	1
Calcium, Dissolved	1.4		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 01:17	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-9-4' FF

Lab Sample ID: 180-119924-26

Date Collected: 04/12/21 16:05

Matrix: Water

Date Received: 04/14/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 01:17	1
Cobalt, Dissolved	0.00073	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 01:17	1
Lead, Dissolved	0.00054	J	0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 01:17	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 01:17	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 01:17	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 01:17	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 01:17	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/24/21 08:55	04/27/21 11:26	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	36		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	<5.0	*+ cn	5.0	5.0	mg/L			04/22/21 00:14	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 00:14	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 00:14	1

Client Sample ID: SW-10-2'

Lab Sample ID: 180-119924-27

Date Collected: 04/12/21 16:35

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.5		1.0	0.71	mg/L			04/20/21 03:43	1
Fluoride	0.029	J	0.20	0.026	mg/L			04/20/21 03:43	1
Sulfate	2.3		1.0	0.76	mg/L			04/20/21 03:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 01:20	1
Arsenic	0.00047	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 01:20	1
Barium	0.019		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 01:20	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 01:20	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 18:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 01:20	1
Calcium	1.1		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 01:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 01:20	1
Cobalt	0.00089	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 01:20	1
Lead	0.0010		0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 01:20	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 01:20	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 01:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 01:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 01:20	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/24/21 08:55	04/27/21 11:27	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-10-2'

Lab Sample ID: 180-119924-27

Date Collected: 04/12/21 16:35

Matrix: Water

Date Received: 04/14/21 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	21		10	10	mg/L			04/16/21 16:22	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*+ cn	5.0	5.0	mg/L			04/22/21 00:23	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 00:23	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 00:23	1

Client Sample ID: SW-10-2' FF

Lab Sample ID: 180-119924-28

Date Collected: 04/12/21 16:45

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	6.5		1.0	0.71	mg/L			04/20/21 03:27	1
Fluoride, Dissolved	0.036	J	0.10	0.026	mg/L			04/20/21 03:27	1
Sulfate, Dissolved	2.3		1.0	0.76	mg/L			04/20/21 03:27	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 01:22	1
Arsenic, Dissolved	<0.00031		0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 01:22	1
Barium, Dissolved	0.016		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 01:22	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 01:22	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 19:00	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 01:22	1
Calcium, Dissolved	1.0		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 01:22	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 01:22	1
Cobalt, Dissolved	0.00076	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 01:22	1
Lead, Dissolved	0.00056	J	0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 01:22	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 01:22	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 01:22	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 01:22	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 01:22	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/26/21 11:02	04/27/21 11:31	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	18		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	<5.0	*+ cn	5.0	5.0	mg/L			04/22/21 00:33	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 00:33	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 00:33	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-11-1'

Lab Sample ID: 180-119924-29

Date Collected: 04/12/21 17:15

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.71	mg/L			04/20/21 02:38	1
Fluoride	0.028	J	0.20	0.026	mg/L			04/20/21 02:38	1
Sulfate	3.2		1.0	0.76	mg/L			04/20/21 02:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 01:25	1
Arsenic	0.00050	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 01:25	1
Barium	0.020		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 01:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 01:25	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 19:03	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 01:25	1
Calcium	1.4		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 01:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 01:25	1
Cobalt	0.00094	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 01:25	1
Lead	0.0011		0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 01:25	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 01:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 01:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 01:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 01:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/26/21 11:02	04/27/21 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		10	10	mg/L			04/16/21 16:22	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*+ cn	5.0	5.0	mg/L			04/22/21 00:42	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 00:42	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 00:42	1

Client Sample ID: SW-11-1' FF

Lab Sample ID: 180-119924-30

Date Collected: 04/12/21 17:25

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	10		1.0	0.71	mg/L			04/20/21 02:21	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/20/21 02:21	1
Sulfate, Dissolved	3.0		1.0	0.76	mg/L			04/20/21 02:21	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 01:28	1
Arsenic, Dissolved	0.00031	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 01:28	1
Barium, Dissolved	0.017		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 01:28	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 01:28	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 19:06	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 01:28	1
Calcium, Dissolved	1.3		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 01:28	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-11-1' FF

Lab Sample ID: 180-119924-30

Date Collected: 04/12/21 17:25

Matrix: Water

Date Received: 04/14/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 01:28	1
Cobalt, Dissolved	0.00076	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 01:28	1
Lead, Dissolved	0.00049	J	0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 01:28	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 01:28	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 01:28	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 01:28	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 01:28	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/26/21 11:02	04/27/21 11:33	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	35		10	10	mg/L			04/16/21 16:22	1
Alkalinity, Dissolved	<5.0	*+ cn	5.0	5.0	mg/L			04/22/21 00:51	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 00:51	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 00:51	1

Client Sample ID: SW-12-1'

Lab Sample ID: 180-119924-31

Date Collected: 04/12/21 18:10

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.8		1.0	0.71	mg/L			04/20/21 02:05	1
Fluoride	<0.026		0.20	0.026	mg/L			04/20/21 02:05	1
Sulfate	2.9		1.0	0.76	mg/L			04/20/21 02:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 01:31	1
Arsenic	0.00044	J	0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 01:31	1
Barium	0.019		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 01:31	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 01:31	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 19:08	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 01:31	1
Calcium	1.3		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 01:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 01:31	1
Cobalt	0.00091	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 01:31	1
Lead	0.0010		0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 01:31	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 01:31	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 01:31	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 01:31	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 01:31	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/26/21 11:02	04/27/21 11:34	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-12-1'

Lab Sample ID: 180-119924-31

Date Collected: 04/12/21 18:10

Matrix: Water

Date Received: 04/14/21 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	38		10	10	mg/L			04/16/21 16:22	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*+ cn	5.0	5.0	mg/L			04/22/21 01:18	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 01:18	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 01:18	1

Client Sample ID: SW-12-1' FF

Lab Sample ID: 180-119924-32

Date Collected: 04/12/21 18:20

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	10		1.0	0.71	mg/L			04/20/21 01:49	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/20/21 01:49	1
Sulfate, Dissolved	2.9		1.0	0.76	mg/L			04/20/21 01:49	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 01:33	1
Arsenic, Dissolved	<0.00031		0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 01:33	1
Barium, Dissolved	0.017		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 01:33	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 01:33	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 19:11	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 01:33	1
Calcium, Dissolved	1.2		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 01:33	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 01:33	1
Cobalt, Dissolved	0.00077	J B	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 01:33	1
Lead, Dissolved	0.00051	J	0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 01:33	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 01:33	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 01:33	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 01:33	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 01:33	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/26/21 11:02	04/27/21 11:35	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	31		10	10	mg/L			04/16/21 16:29	1
Alkalinity, Dissolved	<5.0	*+ cn	5.0	5.0	mg/L			04/22/21 01:37	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 01:37	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 01:37	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-13-1'

Lab Sample ID: 180-119924-33

Date Collected: 04/12/21 14:20

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.71	mg/L			04/20/21 01:32	1
Fluoride	0.035	J	0.20	0.026	mg/L			04/20/21 01:32	1
Sulfate	2.8		1.0	0.76	mg/L			04/20/21 01:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 16:10	1
Arsenic	0.00074	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 16:10	1
Barium	0.015		0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 16:10	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 16:10	1
Boron	0.050	J	0.080	0.039	mg/L		04/21/21 15:56	04/23/21 16:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 16:10	1
Calcium	1.2		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 16:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 16:10	1
Cobalt	0.00079	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 16:10	1
Lead	0.0011		0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 17:17	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 16:10	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 16:10	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 16:10	1
Thallium	0.00028	J	0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 16:10	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/26/21 11:02	04/27/21 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	27		10	10	mg/L			04/16/21 16:29	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*+ cn	5.0	5.0	mg/L			04/22/21 01:47	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 01:47	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 01:47	1

Client Sample ID: SW-13-1' FF

Lab Sample ID: 180-119924-34

Date Collected: 04/12/21 14:30

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	11		1.0	0.71	mg/L			04/19/21 23:21	1
Fluoride, Dissolved	0.031	J	0.10	0.026	mg/L			04/19/21 23:21	1
Sulfate, Dissolved	3.0		1.0	0.76	mg/L			04/19/21 23:21	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 16:14	1
Arsenic, Dissolved	0.00047	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 16:14	1
Barium, Dissolved	0.012		0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 16:14	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 16:14	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:56	04/23/21 16:14	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 16:14	1
Calcium, Dissolved	1.1		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 16:14	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-13-1' FF

Lab Sample ID: 180-119924-34

Date Collected: 04/12/21 14:30

Matrix: Water

Date Received: 04/14/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 16:14	1
Cobalt, Dissolved	0.00061	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 16:14	1
Lead, Dissolved	0.00033	J	0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 17:21	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 16:14	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 16:14	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 16:14	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 16:14	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/26/21 11:02	04/27/21 11:37	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	35		10	10	mg/L			04/16/21 16:29	1
Alkalinity, Dissolved	<5.0	*+ cn	5.0	5.0	mg/L			04/22/21 01:56	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 01:56	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 01:56	1

Client Sample ID: SW-14-1.5"

Lab Sample ID: 180-119924-35

Date Collected: 04/12/21 14:55

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41		1.0	0.71	mg/L			04/19/21 23:05	1
Fluoride	0.046	J	0.20	0.026	mg/L			04/19/21 23:05	1
Sulfate	6.8		1.0	0.76	mg/L			04/19/21 23:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 16:17	1
Arsenic	0.00077	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 16:17	1
Barium	0.0095	J	0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 16:17	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 16:17	1
Boron	0.044	J	0.080	0.039	mg/L		04/21/21 15:56	04/23/21 16:17	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 16:17	1
Calcium	2.1		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 16:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 16:17	1
Cobalt	0.00054	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 16:17	1
Lead	0.00063	J	0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 17:25	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 16:17	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 16:17	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 16:17	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 16:17	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/26/21 11:02	04/27/21 11:38	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-14-1.5"

Lab Sample ID: 180-119924-35

Date Collected: 04/12/21 14:55

Matrix: Water

Date Received: 04/14/21 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	84		10	10	mg/L			04/16/21 16:29	1
Total Alkalinity as CaCO3 to pH 4.5	8.6	*+ cn	5.0	5.0	mg/L			04/22/21 02:05	1
Bicarbonate Alkalinity as CaCO3	8.6		5.0	5.0	mg/L			04/22/21 02:05	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 02:05	1

Client Sample ID: SW-14-1.5" FF

Lab Sample ID: 180-119924-36

Date Collected: 04/12/21 15:05

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	39		1.0	0.71	mg/L			04/19/21 22:49	1
Fluoride, Dissolved	0.042	J	0.10	0.026	mg/L			04/19/21 22:49	1
Sulfate, Dissolved	6.4		1.0	0.76	mg/L			04/19/21 22:49	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 16:21	1
Arsenic, Dissolved	0.00057	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 16:21	1
Barium, Dissolved	0.0081	J	0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 16:21	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 16:21	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:56	04/23/21 16:21	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 16:21	1
Calcium, Dissolved	2.1		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 16:21	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 16:21	1
Cobalt, Dissolved	0.00047	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 16:21	1
Lead, Dissolved	0.00031	J	0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 17:28	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 16:21	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 16:21	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 16:21	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 16:21	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/26/21 11:02	04/27/21 11:39	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	110		10	10	mg/L			04/16/21 16:29	1
Alkalinity, Dissolved	8.4	*+ cn	5.0	5.0	mg/L			04/22/21 02:15	1
Bicarbonate Alkalinity as CaCO3, Dissolved	8.4		5.0	5.0	mg/L			04/22/21 02:15	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 02:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-15-1.5"

Lab Sample ID: 180-119924-37

Date Collected: 04/12/21 15:35

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47	F1	1.0	0.71	mg/L			04/20/21 00:43	1
Fluoride	0.046	J F1	0.20	0.026	mg/L			04/20/21 00:43	1
Sulfate	8.0		1.0	0.76	mg/L			04/20/21 00:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 16:24	1
Arsenic	0.00076	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 16:24	1
Barium	0.011		0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 16:24	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 16:24	1
Boron	0.040	J	0.080	0.039	mg/L		04/21/21 15:56	04/23/21 16:24	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 16:24	1
Calcium	2.4		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 16:24	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 16:24	1
Cobalt	0.00055	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 16:24	1
Lead	0.00050	J	0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 17:32	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 16:24	1
Molybdenum	0.00096	J	0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 16:24	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 16:24	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 16:24	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/24/21 08:55	04/27/21 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			04/16/21 16:29	1
Total Alkalinity as CaCO3 to pH 4.5	10	*+ cn	5.0	5.0	mg/L			04/22/21 02:25	1
Bicarbonate Alkalinity as CaCO3	10		5.0	5.0	mg/L			04/22/21 02:25	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 02:25	1

Client Sample ID: SW-15-1.5" FF

Lab Sample ID: 180-119924-38

Date Collected: 04/12/21 15:45

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	49	F1	1.0	0.71	mg/L			04/20/21 02:08	1
Fluoride, Dissolved	0.059	J	0.10	0.026	mg/L			04/20/21 02:08	1
Sulfate, Dissolved	8.2		1.0	0.76	mg/L			04/20/21 02:08	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 16:28	1
Arsenic, Dissolved	0.00056	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 16:28	1
Barium, Dissolved	0.0089	J	0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 16:28	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 16:28	1
Boron, Dissolved	0.042	J	0.080	0.039	mg/L		04/21/21 15:56	04/23/21 16:28	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 16:28	1
Calcium, Dissolved	2.4		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 16:28	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-15-1.5" FF

Lab Sample ID: 180-119924-38

Date Collected: 04/12/21 15:45

Matrix: Water

Date Received: 04/14/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 16:28	1
Cobalt, Dissolved	0.00042	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 16:28	1
Lead, Dissolved	0.00025	J	0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 17:43	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 16:28	1
Molybdenum, Dissolved	0.00076	J	0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 16:28	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 16:28	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 16:28	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/24/21 08:55	04/27/21 11:04	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	120		10	10	mg/L			04/16/21 16:29	1
Alkalinity, Dissolved	11	*+ cn	5.0	5.0	mg/L			04/22/21 02:34	1
Bicarbonate Alkalinity as CaCO3, Dissolved	11		5.0	5.0	mg/L			04/22/21 02:34	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 02:34	1

Client Sample ID: SW-16-1.5"

Lab Sample ID: 180-119924-39

Date Collected: 04/12/21 16:10

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46		1.0	0.71	mg/L			04/19/21 21:15	1
Fluoride	0.043	J	0.20	0.026	mg/L			04/19/21 21:15	1
Sulfate	7.2		1.0	0.76	mg/L			04/19/21 21:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 16:32	1
Arsenic	0.00081	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 16:32	1
Barium	0.0078	J	0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 16:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 16:32	1
Boron	0.041	J	0.080	0.039	mg/L		04/21/21 15:56	04/23/21 16:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 16:32	1
Calcium	2.2		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 16:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 16:32	1
Cobalt	0.00046	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 16:32	1
Lead	0.00050	J	0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 17:46	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 16:32	1
Molybdenum	0.00073	J	0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 16:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 16:32	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 16:32	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/24/21 08:55	04/27/21 11:05	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-16-1.5"

Lab Sample ID: 180-119924-39

Date Collected: 04/12/21 16:10

Matrix: Water

Date Received: 04/14/21 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	95		10	10	mg/L			04/16/21 16:29	1
Total Alkalinity as CaCO3 to pH 4.5	10	*+ cn	5.0	5.0	mg/L			04/22/21 02:44	1
Bicarbonate Alkalinity as CaCO3	10		5.0	5.0	mg/L			04/22/21 02:44	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 02:44	1

Client Sample ID: SW-16-1.5" FF

Lab Sample ID: 180-119924-40

Date Collected: 04/12/21 16:20

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	46		1.0	0.71	mg/L			04/19/21 20:57	1
Fluoride, Dissolved	0.050	J	0.10	0.026	mg/L			04/19/21 20:57	1
Sulfate, Dissolved	7.2		1.0	0.76	mg/L			04/19/21 20:57	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 16:42	1
Arsenic, Dissolved	0.00069	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 16:42	1
Barium, Dissolved	0.0071	J	0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 16:42	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 16:42	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:56	04/23/21 16:42	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 16:42	1
Calcium, Dissolved	2.2		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 16:42	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 16:42	1
Cobalt, Dissolved	0.00043	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 16:42	1
Lead, Dissolved	0.00024	J	0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 17:50	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 16:42	1
Molybdenum, Dissolved	0.00075	J	0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 16:42	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 16:42	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 16:42	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/24/21 08:55	04/27/21 11:06	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	190		10	10	mg/L			04/16/21 16:29	1
Alkalinity, Dissolved	11		5.0	5.0	mg/L			04/22/21 03:39	1
Bicarbonate Alkalinity as CaCO3, Dissolved	11		5.0	5.0	mg/L			04/22/21 03:39	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 03:39	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-17-1'

Lab Sample ID: 180-119924-41

Date Collected: 04/12/21 12:50

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		1.0	0.71	mg/L			04/19/21 20:03	1
Fluoride	0.031	J	0.20	0.026	mg/L			04/19/21 20:03	1
Sulfate	6.7		1.0	0.76	mg/L			04/19/21 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 16:46	1
Arsenic	0.00088	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 16:46	1
Barium	0.0082	J	0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 16:46	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 16:46	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 15:56	04/23/21 16:46	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 16:46	1
Calcium	1.9		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 16:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 16:46	1
Cobalt	0.00065	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 16:46	1
Lead	0.00073	J	0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 17:53	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 16:46	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 16:46	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 16:46	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 16:46	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/24/21 08:55	04/27/21 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	92		10	10	mg/L			04/16/21 16:29	1
Total Alkalinity as CaCO3 to pH 4.5	9.2		5.0	5.0	mg/L			04/22/21 03:59	1
Bicarbonate Alkalinity as CaCO3	9.2		5.0	5.0	mg/L			04/22/21 03:59	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 03:59	1

Client Sample ID: SW-17-1' FF

Lab Sample ID: 180-119924-42

Date Collected: 04/12/21 13:00

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	40		1.0	0.71	mg/L			04/19/21 19:45	1
Fluoride, Dissolved	0.040	J	0.10	0.026	mg/L			04/19/21 19:45	1
Sulfate, Dissolved	6.3		1.0	0.76	mg/L			04/19/21 19:45	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 16:50	1
Arsenic, Dissolved	0.00068	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 16:50	1
Barium, Dissolved	0.0062	J	0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 16:50	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 16:50	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:56	04/23/21 16:50	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 16:50	1
Calcium, Dissolved	1.9		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 16:50	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: SW-17-1' FF

Lab Sample ID: 180-119924-42

Date Collected: 04/12/21 13:00

Matrix: Water

Date Received: 04/14/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 16:50	1
Cobalt, Dissolved	0.00041	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 16:50	1
Lead, Dissolved	0.00020	J	0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 17:57	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 16:50	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 16:50	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 16:50	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 16:50	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/24/21 08:55	04/27/21 11:08	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	74		10	10	mg/L			04/16/21 16:29	1
Alkalinity, Dissolved	8.5		5.0	5.0	mg/L			04/22/21 04:08	1
Bicarbonate Alkalinity as CaCO3, Dissolved	8.5		5.0	5.0	mg/L			04/22/21 04:08	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 04:08	1

Client Sample ID: DUP-010

Lab Sample ID: 180-119924-43

Date Collected: 04/12/21 11:40

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41		1.0	0.71	mg/L			04/19/21 19:27	1
Fluoride	0.043	J	0.20	0.026	mg/L			04/19/21 19:27	1
Sulfate	14		1.0	0.76	mg/L			04/19/21 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 17:07	1
Arsenic	0.00097	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 17:07	1
Barium	0.015		0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 17:07	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 17:07	1
Boron	0.073	J	0.080	0.039	mg/L		04/21/21 15:56	04/23/21 17:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 17:07	1
Calcium	6.6		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 17:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 17:07	1
Cobalt	0.00054	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 17:07	1
Lead	0.0012		0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 18:01	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 17:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 17:07	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 17:07	1
Thallium	0.00035	J	0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 17:07	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/24/21 08:55	04/27/21 11:09	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: DUP-010

Lab Sample ID: 180-119924-43

Date Collected: 04/12/21 11:40

Matrix: Water

Date Received: 04/14/21 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	98		10	10	mg/L			04/16/21 16:29	1
Total Alkalinity as CaCO3 to pH 4.5	12		5.0	5.0	mg/L			04/22/21 04:18	1
Bicarbonate Alkalinity as CaCO3	12		5.0	5.0	mg/L			04/22/21 04:18	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 04:18	1

Client Sample ID: DUP-01-FF

Lab Sample ID: 180-119924-44

Date Collected: 04/12/21 11:55

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	39		1.0	0.71	mg/L			04/19/21 19:10	1
Fluoride, Dissolved	0.040	J	0.10	0.026	mg/L			04/19/21 19:10	1
Sulfate, Dissolved	13		1.0	0.76	mg/L			04/19/21 19:10	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 17:11	1
Arsenic, Dissolved	0.00074	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 17:11	1
Barium, Dissolved	0.013		0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 17:11	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 17:11	1
Boron, Dissolved	0.056	J	0.080	0.039	mg/L		04/21/21 15:56	04/23/21 17:11	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 17:11	1
Calcium, Dissolved	5.8		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 17:11	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 17:11	1
Cobalt, Dissolved	0.00051	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 17:11	1
Lead, Dissolved	0.00030	J	0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 18:26	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 17:11	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 17:11	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 17:11	1
Thallium, Dissolved	0.00018	J	0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 17:11	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/24/21 08:55	04/27/21 11:10	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	89		10	10	mg/L			04/16/21 16:29	1
Alkalinity, Dissolved	12		5.0	5.0	mg/L			04/22/21 04:28	1
Bicarbonate Alkalinity as CaCO3, Dissolved	12		5.0	5.0	mg/L			04/22/21 04:28	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 04:28	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: DUP-02

Lab Sample ID: 180-119924-45

Date Collected: 04/12/21 16:15

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.9		1.0	0.71	mg/L			04/19/21 18:52	1
Fluoride	<0.026		0.20	0.026	mg/L			04/19/21 18:52	1
Sulfate	2.4		1.0	0.76	mg/L			04/19/21 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 17:22	1
Arsenic	0.00054	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 17:22	1
Barium	0.021		0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 17:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 17:22	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 15:56	04/24/21 11:56	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 17:22	1
Calcium	1.4		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 17:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 17:22	1
Cobalt	0.0010	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 17:22	1
Lead	0.0012		0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 18:29	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 17:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 17:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 17:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 17:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/24/21 08:55	04/27/21 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	39		10	10	mg/L			04/16/21 16:29	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/22/21 04:37	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 04:37	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 04:37	1

Client Sample ID: DUP-02-FF

Lab Sample ID: 180-119924-46

Date Collected: 04/12/21 16:25

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	10		1.0	0.71	mg/L			04/19/21 16:11	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/19/21 16:11	1
Sulfate, Dissolved	2.4		1.0	0.76	mg/L			04/19/21 16:11	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 17:25	1
Arsenic, Dissolved	0.00048	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 17:25	1
Barium, Dissolved	0.017		0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 17:25	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 17:25	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:56	04/24/21 11:58	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 17:25	1
Calcium, Dissolved	1.2		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 17:25	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: DUP-02-FF

Lab Sample ID: 180-119924-46

Date Collected: 04/12/21 16:25

Matrix: Water

Date Received: 04/14/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 17:25	1
Cobalt, Dissolved	0.00085	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 17:25	1
Lead, Dissolved	0.00053	J	0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 18:33	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 17:25	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 17:25	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 17:25	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 17:25	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/24/21 08:55	04/27/21 11:12	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	28		10	10	mg/L			04/16/21 16:29	1
Alkalinity, Dissolved	<5.0	*+ cn	5.0	5.0	mg/L			04/26/21 12:04	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/26/21 12:04	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/26/21 12:04	1

Client Sample ID: DUP-03

Lab Sample ID: 180-119924-47

Date Collected: 04/12/21 17:25

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.71	mg/L			04/19/21 15:53	1
Fluoride	<0.026		0.20	0.026	mg/L			04/19/21 15:53	1
Sulfate	2.7		1.0	0.76	mg/L			04/19/21 15:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 17:29	1
Arsenic	0.00057	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 17:29	1
Barium	0.017		0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 17:29	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 17:29	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 15:56	04/24/21 12:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 17:29	1
Calcium	1.6		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 17:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 17:29	1
Cobalt	0.00085	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 17:29	1
Lead	0.0012		0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 18:36	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 17:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 17:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 17:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 17:29	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/24/21 08:55	04/27/21 11:13	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: DUP-03

Lab Sample ID: 180-119924-47

Date Collected: 04/12/21 17:25

Matrix: Water

Date Received: 04/14/21 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	39		10	10	mg/L			04/16/21 16:29	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*+ cn	5.0	5.0	mg/L			04/26/21 12:18	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/26/21 12:18	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/26/21 12:18	1

Client Sample ID: DUP-03-FF

Lab Sample ID: 180-119924-48

Date Collected: 04/12/21 17:35

Matrix: Water

Date Received: 04/14/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	15		1.0	0.71	mg/L			04/19/21 15:35	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/19/21 15:35	1
Sulfate, Dissolved	3.3		1.0	0.76	mg/L			04/19/21 15:35	1

Method: EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 17:33	1
Arsenic, Dissolved	0.00042	J	0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 17:33	1
Barium, Dissolved	0.014		0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 17:33	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 17:33	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:56	04/24/21 12:04	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 17:33	1
Calcium, Dissolved	1.6		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 17:33	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 17:33	1
Cobalt, Dissolved	0.00073	J B	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 17:33	1
Lead, Dissolved	0.00039	J	0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 18:40	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 17:33	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 17:33	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 17:33	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 17:33	1

Method: EPA 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/24/21 08:55	04/27/21 11:16	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered	35		10	10	mg/L			04/16/21 16:29	1
Alkalinity, Dissolved	<5.0	*+ cn	5.0	5.0	mg/L			04/26/21 12:25	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/26/21 12:25	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/26/21 12:25	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: EB-01

Lab Sample ID: 180-119924-49

Date Collected: 04/12/21 10:30

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/19/21 17:40	1
Fluoride	<0.026		0.20	0.026	mg/L			04/19/21 17:40	1
Sulfate	<0.76		1.0	0.76	mg/L			04/19/21 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 16:00	04/23/21 17:36	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/21/21 16:00	04/23/21 17:36	1
Barium	<0.0016		0.010	0.0016	mg/L		04/21/21 16:00	04/23/21 17:36	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 16:00	04/23/21 17:36	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 16:00	04/24/21 12:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:00	04/23/21 17:36	1
Calcium	<0.13		0.50	0.13	mg/L		04/21/21 16:00	04/23/21 17:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:00	04/23/21 17:36	1
Cobalt	0.00029	J B	0.0025	0.00013	mg/L		04/21/21 16:00	04/23/21 17:36	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 18:44	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:00	04/23/21 17:36	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 16:00	04/23/21 17:36	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:00	04/23/21 17:36	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:00	04/23/21 17:36	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/23/21 12:36	04/24/21 11:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/16/21 16:29	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	H	5.0	5.0	mg/L			05/27/21 12:03	1
Bicarbonate Alkalinity as CaCO3	<5.0	H	5.0	5.0	mg/L			05/27/21 12:03	1
Carbonate Alkalinity as CaCO3	<5.0	H	5.0	5.0	mg/L			05/27/21 12:03	1

Client Sample ID: EB-02

Lab Sample ID: 180-119924-50

Date Collected: 04/12/21 19:30

Matrix: Water

Date Received: 04/14/21 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/19/21 17:22	1
Fluoride	<0.026		0.20	0.026	mg/L			04/19/21 17:22	1
Sulfate	<0.76		1.0	0.76	mg/L			04/19/21 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 16:00	04/23/21 17:40	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/21/21 16:00	04/23/21 17:40	1
Barium	<0.0016		0.010	0.0016	mg/L		04/21/21 16:00	04/23/21 17:40	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 16:00	04/23/21 17:40	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 16:00	04/24/21 12:09	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:00	04/23/21 17:40	1
Calcium	<0.13		0.50	0.13	mg/L		04/21/21 16:00	04/23/21 17:40	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Client Sample ID: EB-02
Date Collected: 04/12/21 19:30
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-50
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:00	04/23/21 17:40	1
Cobalt	0.00027	J B	0.0025	0.00013	mg/L		04/21/21 16:00	04/23/21 17:40	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 18:47	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:00	04/23/21 17:40	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 16:00	04/23/21 17:40	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:00	04/23/21 17:40	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:00	04/23/21 17:40	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/23/21 12:36	04/24/21 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/16/21 16:29	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	H	5.0	5.0	mg/L			05/27/21 12:09	1
Bicarbonate Alkalinity as CaCO3	<5.0	H	5.0	5.0	mg/L			05/27/21 12:09	1
Carbonate Alkalinity as CaCO3	<5.0	H	5.0	5.0	mg/L			05/27/21 12:09	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-353596/54
Matrix: Water
Analysis Batch: 353596

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/20/21 01:52	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			04/20/21 01:52	1
Fluoride	<0.026		0.10	0.026	mg/L			04/20/21 01:52	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/20/21 01:52	1
Sulfate	<0.76		1.0	0.76	mg/L			04/20/21 01:52	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			04/20/21 01:52	1

Lab Sample ID: LCS 180-353596/53
Matrix: Water
Analysis Batch: 353596

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	46.7		mg/L		93	90 - 110
Chloride, Dissolved	50.0	46.7		mg/L		93	90 - 110
Fluoride	2.50	2.56		mg/L		103	90 - 110
Fluoride, Dissolved	2.50	2.56		mg/L		103	90 - 110
Sulfate	50.0	46.7		mg/L		93	90 - 110
Sulfate, Dissolved	50.0	46.7		mg/L		93	90 - 110

Lab Sample ID: MB 180-353597/48
Matrix: Water
Analysis Batch: 353597

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/20/21 00:27	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			04/20/21 00:27	1
Fluoride	<0.026		0.20	0.026	mg/L			04/20/21 00:27	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			04/20/21 00:27	1
Sulfate	<0.76		1.0	0.76	mg/L			04/20/21 00:27	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			04/20/21 00:27	1

Lab Sample ID: MB 180-353597/6
Matrix: Water
Analysis Batch: 353597

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/19/21 09:09	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			04/19/21 09:09	1
Fluoride	<0.026		0.10	0.026	mg/L			04/19/21 09:09	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/19/21 09:09	1
Sulfate	<0.76		1.0	0.76	mg/L			04/19/21 09:09	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			04/19/21 09:09	1

Lab Sample ID: LCS 180-353597/47
Matrix: Water
Analysis Batch: 353597

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	47.0		mg/L		94	90 - 110

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-353597/47
Matrix: Water
Analysis Batch: 353597

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride, Dissolved	50.0	47.0		mg/L		94	90 - 110
Fluoride	2.50	2.50		mg/L		100	90 - 110
Fluoride, Dissolved	2.50	2.50		mg/L		100	90 - 110
Sulfate	50.0	46.9		mg/L		94	90 - 110
Sulfate, Dissolved	50.0	46.9		mg/L		94	90 - 110

Lab Sample ID: LCS 180-353597/5
Matrix: Water
Analysis Batch: 353597

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	46.8		mg/L		94	90 - 110
Chloride, Dissolved	50.0	46.8		mg/L		94	90 - 110
Fluoride	2.50	2.61		mg/L		104	90 - 110
Fluoride, Dissolved	2.50	2.61		mg/L		104	90 - 110
Sulfate	50.0	46.2		mg/L		92	90 - 110
Sulfate, Dissolved	50.0	46.2		mg/L		92	90 - 110

Lab Sample ID: 180-119924-37 MS
Matrix: Water
Analysis Batch: 353597

Client Sample ID: SW-15-1.5"
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	47	F1	50.0	90.2	F1	mg/L		86	90 - 110
Chloride, Dissolved	47	F1	50.0	90.2	F1	mg/L		86	90 - 110
Fluoride	0.046	J F1	2.50	2.60		mg/L		102	90 - 110
Fluoride, Dissolved	0.046	J F1	2.50	2.60		mg/L		102	90 - 110
Sulfate	8.0		50.0	54.8		mg/L		94	90 - 110
Sulfate, Dissolved	8.0		50.0	54.8		mg/L		94	90 - 110

Lab Sample ID: 180-119924-37 MSD
Matrix: Water
Analysis Batch: 353597

Client Sample ID: SW-15-1.5"
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	F1	50.0	97.2		mg/L		100	90 - 110	7	20
Chloride, Dissolved	47	F1	50.0	97.2		mg/L		100	90 - 110	7	20
Fluoride	0.046	J F1	2.50	2.81	F1	mg/L		111	90 - 110	8	20
Fluoride, Dissolved	0.046	J F1	2.50	2.81	F1	mg/L		111	90 - 110	8	20
Sulfate	8.0		50.0	59.4		mg/L		103	90 - 110	8	20
Sulfate, Dissolved	8.0		50.0	59.4		mg/L		103	90 - 110	8	20

Lab Sample ID: MB 180-353598/6
Matrix: Water
Analysis Batch: 353598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/19/21 09:16	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			04/19/21 09:16	1
Fluoride	<0.026		0.10	0.026	mg/L			04/19/21 09:16	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-353598/6
Matrix: Water
Analysis Batch: 353598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/19/21 09:16	1
Sulfate	<0.76		1.0	0.76	mg/L			04/19/21 09:16	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			04/19/21 09:16	1

Lab Sample ID: LCS 180-353598/5
Matrix: Water
Analysis Batch: 353598

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.0		mg/L		98	90 - 110
Chloride, Dissolved	50.0	49.0		mg/L		98	90 - 110
Fluoride	2.50	2.29		mg/L		92	90 - 110
Fluoride, Dissolved	2.50	2.29		mg/L		92	90 - 110
Sulfate	50.0	49.1		mg/L		98	90 - 110
Sulfate, Dissolved	50.0	49.1		mg/L		98	90 - 110

Lab Sample ID: MB 180-353748/6
Matrix: Water
Analysis Batch: 353748

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/20/21 08:36	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			04/20/21 08:36	1
Fluoride	<0.026		0.10	0.026	mg/L			04/20/21 08:36	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/20/21 08:36	1
Sulfate	<0.76		1.0	0.76	mg/L			04/20/21 08:36	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			04/20/21 08:36	1

Lab Sample ID: LCS 180-353748/5
Matrix: Water
Analysis Batch: 353748

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	47.6		mg/L		95	90 - 110
Chloride, Dissolved	50.0	47.6		mg/L		95	90 - 110
Fluoride	2.50	2.65		mg/L		106	90 - 110
Fluoride, Dissolved	2.50	2.65		mg/L		106	90 - 110
Sulfate	50.0	48.0		mg/L		96	90 - 110
Sulfate, Dissolved	50.0	48.0		mg/L		96	90 - 110

Lab Sample ID: MB 180-353756/6
Matrix: Water
Analysis Batch: 353756

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/20/21 09:47	1
Fluoride	<0.026		0.20	0.026	mg/L			04/20/21 09:47	1
Sulfate	<0.76		1.0	0.76	mg/L			04/20/21 09:47	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-353756/5
Matrix: Water
Analysis Batch: 353756

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.0		mg/L		98	90 - 110
Fluoride	2.50	2.29		mg/L		91	90 - 110
Sulfate	50.0	49.0		mg/L		98	90 - 110

Lab Sample ID: 180-119924-13 MS
Matrix: Water
Analysis Batch: 353756

Client Sample ID: SW-4-1.5"
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.2		50.0	52.0		mg/L		98	90 - 110
Fluoride	<0.026		2.50	2.31		mg/L		92	90 - 110
Sulfate	1.2		50.0	49.8		mg/L		97	90 - 110

Lab Sample ID: 180-119924-13 MSD
Matrix: Water
Analysis Batch: 353756

Client Sample ID: SW-4-1.5"
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.2		50.0	52.6		mg/L		99	90 - 110	1	20
Fluoride	<0.026		2.50	2.30		mg/L		92	90 - 110	0	20
Sulfate	1.2		50.0	50.2		mg/L		98	90 - 110	1	20

Lab Sample ID: MB 180-354690/6
Matrix: Water
Analysis Batch: 354690

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/27/21 09:16	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			04/27/21 09:16	1
Fluoride	<0.026		0.10	0.026	mg/L			04/27/21 09:16	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			04/27/21 09:16	1
Sulfate	<0.76		1.0	0.76	mg/L			04/27/21 09:16	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			04/27/21 09:16	1

Lab Sample ID: LCS 180-354690/5
Matrix: Water
Analysis Batch: 354690

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.0		mg/L		98	90 - 110
Chloride, Dissolved	50.0	49.0		mg/L		98	90 - 110
Fluoride	2.50	2.57		mg/L		103	90 - 110
Fluoride, Dissolved	2.50	2.57		mg/L		103	90 - 110
Sulfate	50.0	48.9		mg/L		98	90 - 110
Sulfate, Dissolved	50.0	48.9		mg/L		98	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-119924-38 MS

Matrix: Water

Analysis Batch: 353596

Client Sample ID: SW-15-1.5" FF

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	49	F1	50.0	94.4		mg/L		91	90 - 110
Chloride, Dissolved	49	F1	50.0	94.4		mg/L		91	90 - 110
Fluoride	0.059	J	2.50	2.73		mg/L		107	90 - 110
Fluoride, Dissolved	0.059	J	2.50	2.73		mg/L		107	90 - 110
Sulfate	8.2		50.0	57.2		mg/L		98	90 - 110
Sulfate, Dissolved	8.2		50.0	57.2		mg/L		98	90 - 110

Lab Sample ID: 180-119924-38 MSD

Matrix: Water

Analysis Batch: 353596

Client Sample ID: SW-15-1.5" FF

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	49	F1	50.0	93.4	F1	mg/L		89	90 - 110	1	20
Chloride, Dissolved	49	F1	50.0	93.4	F1	mg/L		89	90 - 110	1	20
Fluoride	0.059	J	2.50	2.73		mg/L		107	90 - 110	0	20
Fluoride, Dissolved	0.059	J	2.50	2.73		mg/L		107	90 - 110	0	20
Sulfate	8.2		50.0	56.6		mg/L		97	90 - 110	1	20
Sulfate, Dissolved	8.2		50.0	56.6		mg/L		97	90 - 110	1	20

Lab Sample ID: 180-119924-14 MS

Matrix: Water

Analysis Batch: 353748

Client Sample ID: SW-4-1.5" FF

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.8		50.0	53.4		mg/L		99	90 - 110
Chloride, Dissolved	3.8		50.0	53.4		mg/L		99	90 - 110
Fluoride	<0.026		2.50	2.72		mg/L		109	90 - 110
Fluoride, Dissolved	<0.026		2.50	2.72		mg/L		109	90 - 110
Sulfate	1.6		50.0	51.6		mg/L		100	90 - 110
Sulfate, Dissolved	1.6		50.0	51.6		mg/L		100	90 - 110

Lab Sample ID: 180-119924-14 MSD

Matrix: Water

Analysis Batch: 353748

Client Sample ID: SW-4-1.5" FF

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.8		50.0	52.4		mg/L		97	90 - 110	2	20
Chloride, Dissolved	3.8		50.0	52.4		mg/L		97	90 - 110	2	20
Fluoride	<0.026		2.50	2.73		mg/L		109	90 - 110	0	20
Fluoride, Dissolved	<0.026		2.50	2.73		mg/L		109	90 - 110	0	20
Sulfate	1.6		50.0	51.0		mg/L		99	90 - 110	1	20
Sulfate, Dissolved	1.6		50.0	51.0		mg/L		99	90 - 110	1	20

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

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

Lab Sample ID: MB 180-354077/1-A
Matrix: Water
Analysis Batch: 354830

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 354077

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 00:06	1
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:47	04/28/21 00:06	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 00:06	1
Arsenic, Dissolved	<0.00031		0.0010	0.00031	mg/L		04/21/21 15:47	04/28/21 00:06	1
Barium	<0.0016		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 00:06	1
Barium, Dissolved	<0.0016		0.010	0.0016	mg/L		04/21/21 15:47	04/28/21 00:06	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 00:06	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:47	04/28/21 00:06	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 00:06	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:47	04/28/21 00:06	1
Calcium	<0.13		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 00:06	1
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		04/21/21 15:47	04/28/21 00:06	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 00:06	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:47	04/28/21 00:06	1
Cobalt	0.000253	J	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 00:06	1
Cobalt, Dissolved	0.000253	J	0.0025	0.00013	mg/L		04/21/21 15:47	04/28/21 00:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 00:06	1
Lead, Dissolved	<0.00013		0.0010	0.00013	mg/L		04/21/21 15:47	04/28/21 00:06	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 00:06	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:47	04/28/21 00:06	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 00:06	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:47	04/28/21 00:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 00:06	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:47	04/28/21 00:06	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 00:06	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:47	04/28/21 00:06	1

Lab Sample ID: MB 180-354077/1-A
Matrix: Water
Analysis Batch: 354987

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 354077

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 17:53	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:47	04/28/21 17:53	1

Lab Sample ID: LCS 180-354077/2-A
Matrix: Water
Analysis Batch: 354830

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 354077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony, Dissolved	0.250	0.239		mg/L		96	80 - 120
Arsenic	1.00	0.941		mg/L		94	80 - 120
Arsenic, Dissolved	1.00	0.941		mg/L		94	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Barium, Dissolved	1.00	1.01		mg/L		101	80 - 120
Beryllium	0.500	0.473		mg/L		95	80 - 120
Beryllium, Dissolved	0.500	0.473		mg/L		95	80 - 120
Cadmium	0.500	0.497		mg/L		99	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

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

Lab Sample ID: LCS 180-354077/2-A
Matrix: Water
Analysis Batch: 354830

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 354077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium, Dissolved	0.500	0.497		mg/L		99	80 - 120
Calcium	25.0	28.5		mg/L		114	80 - 120
Calcium, Dissolved	25.0	28.5		mg/L		114	80 - 120
Chromium	0.500	0.485		mg/L		97	80 - 120
Chromium, Dissolved	0.500	0.485		mg/L		97	80 - 120
Cobalt	0.500	0.469		mg/L		94	80 - 120
Cobalt, Dissolved	0.500	0.469		mg/L		94	80 - 120
Lead	0.500	0.486		mg/L		97	80 - 120
Lead, Dissolved	0.500	0.486		mg/L		97	80 - 120
Lithium	0.500	0.482		mg/L		96	80 - 120
Lithium, Dissolved	0.500	0.482		mg/L		96	80 - 120
Molybdenum	0.500	0.517		mg/L		103	80 - 120
Molybdenum, Dissolved	0.500	0.517		mg/L		103	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Selenium, Dissolved	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	0.985		mg/L		99	80 - 120
Thallium, Dissolved	1.00	0.985		mg/L		99	80 - 120

Lab Sample ID: LCS 180-354077/2-A
Matrix: Water
Analysis Batch: 354987

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 354077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.24		mg/L		99	80 - 120
Boron, Dissolved	1.25	1.24		mg/L		99	80 - 120

Lab Sample ID: MB 180-354078/1-A
Matrix: Water
Analysis Batch: 354448

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 354078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 16:03	1
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 15:56	04/23/21 16:03	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 16:03	1
Arsenic, Dissolved	<0.00031		0.0010	0.00031	mg/L		04/21/21 15:56	04/23/21 16:03	1
Barium	<0.0016		0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 16:03	1
Barium, Dissolved	<0.0016		0.010	0.0016	mg/L		04/21/21 15:56	04/23/21 16:03	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 16:03	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 15:56	04/23/21 16:03	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 15:56	04/23/21 16:03	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 15:56	04/23/21 16:03	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 16:03	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 15:56	04/23/21 16:03	1
Calcium	<0.13		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 16:03	1
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		04/21/21 15:56	04/23/21 16:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 16:03	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 15:56	04/23/21 16:03	1
Cobalt	0.000264	J	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 16:03	1
Cobalt, Dissolved	0.000264	J	0.0025	0.00013	mg/L		04/21/21 15:56	04/23/21 16:03	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

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

Lab Sample ID: MB 180-354078/1-A
Matrix: Water
Analysis Batch: 354448

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 354078

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 16:03	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 15:56	04/23/21 16:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 16:03	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 15:56	04/23/21 16:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 16:03	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 15:56	04/23/21 16:03	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 16:03	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 15:56	04/23/21 16:03	1

Lab Sample ID: LCS 180-354078/2-A
Matrix: Water
Analysis Batch: 354448

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 354078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.246		mg/L		98	80 - 120
Antimony, Dissolved	0.250	0.246		mg/L		98	80 - 120
Arsenic	1.00	1.01		mg/L		101	80 - 120
Arsenic, Dissolved	1.00	1.01		mg/L		101	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Barium, Dissolved	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.516		mg/L		103	80 - 120
Beryllium, Dissolved	0.500	0.516		mg/L		103	80 - 120
Boron	1.25	1.15		mg/L		92	80 - 120
Boron, Dissolved	1.25	1.15		mg/L		92	80 - 120
Cadmium	0.500	0.517		mg/L		103	80 - 120
Cadmium, Dissolved	0.500	0.517		mg/L		103	80 - 120
Calcium	25.0	28.9		mg/L		115	80 - 120
Calcium, Dissolved	25.0	28.9		mg/L		115	80 - 120
Chromium	0.500	0.516		mg/L		103	80 - 120
Chromium, Dissolved	0.500	0.516		mg/L		103	80 - 120
Cobalt	0.500	0.508		mg/L		102	80 - 120
Cobalt, Dissolved	0.500	0.508		mg/L		102	80 - 120
Lithium	0.500	0.500		mg/L		100	80 - 120
Lithium, Dissolved	0.500	0.500		mg/L		100	80 - 120
Molybdenum	0.500	0.515		mg/L		103	80 - 120
Molybdenum, Dissolved	0.500	0.515		mg/L		103	80 - 120
Selenium	1.00	1.04		mg/L		104	80 - 120
Selenium, Dissolved	1.00	1.04		mg/L		104	80 - 120
Thallium	1.00	1.09		mg/L		109	80 - 120
Thallium, Dissolved	1.00	1.09		mg/L		109	80 - 120

Lab Sample ID: MB 180-354079/1-A
Matrix: Water
Analysis Batch: 355148

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 354079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 09:11	1
Antimony, Dissolved	<0.00038		0.0020	0.00038	mg/L		04/21/21 16:06	04/29/21 09:11	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 09:11	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

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

Lab Sample ID: MB 180-354079/1-A
Matrix: Water
Analysis Batch: 355148

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 354079

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic, Dissolved	<0.00031		0.0010	0.00031	mg/L		04/21/21 16:06	04/29/21 09:11	1
Barium	<0.0016		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 09:11	1
Barium, Dissolved	<0.0016		0.010	0.0016	mg/L		04/21/21 16:06	04/29/21 09:11	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 09:11	1
Beryllium, Dissolved	<0.00018		0.0025	0.00018	mg/L		04/21/21 16:06	04/29/21 09:11	1
Boron	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 09:11	1
Boron, Dissolved	<0.039		0.080	0.039	mg/L		04/21/21 16:06	04/29/21 09:11	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 09:11	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		04/21/21 16:06	04/29/21 09:11	1
Calcium	<0.13		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 09:11	1
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		04/21/21 16:06	04/29/21 09:11	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 09:11	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		04/21/21 16:06	04/29/21 09:11	1
Cobalt	0.000261	J	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 09:11	1
Cobalt, Dissolved	0.000261	J	0.0025	0.00013	mg/L		04/21/21 16:06	04/29/21 09:11	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 09:11	1
Lead, Dissolved	<0.00013		0.0010	0.00013	mg/L		04/21/21 16:06	04/29/21 09:11	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 09:11	1
Lithium, Dissolved	<0.0034		0.0050	0.0034	mg/L		04/21/21 16:06	04/29/21 09:11	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 09:11	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		04/21/21 16:06	04/29/21 09:11	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 09:11	1
Selenium, Dissolved	<0.0015		0.0050	0.0015	mg/L		04/21/21 16:06	04/29/21 09:11	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 09:11	1
Thallium, Dissolved	<0.00015		0.0010	0.00015	mg/L		04/21/21 16:06	04/29/21 09:11	1

Lab Sample ID: LCS 180-354079/2-A
Matrix: Water
Analysis Batch: 355148

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 354079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony, Dissolved	0.250	0.239		mg/L		95	80 - 120
Arsenic	1.00	0.968		mg/L		97	80 - 120
Arsenic, Dissolved	1.00	0.968		mg/L		97	80 - 120
Barium	1.00	0.994		mg/L		99	80 - 120
Barium, Dissolved	1.00	0.994		mg/L		99	80 - 120
Beryllium	0.500	0.490		mg/L		98	80 - 120
Beryllium, Dissolved	0.500	0.490		mg/L		98	80 - 120
Boron	1.25	1.15		mg/L		92	80 - 120
Boron, Dissolved	1.25	1.15		mg/L		92	80 - 120
Cadmium	0.500	0.500		mg/L		100	80 - 120
Cadmium, Dissolved	0.500	0.500		mg/L		100	80 - 120
Calcium	25.0	28.0		mg/L		112	80 - 120
Calcium, Dissolved	25.0	28.0		mg/L		112	80 - 120
Chromium	0.500	0.499		mg/L		100	80 - 120
Chromium, Dissolved	0.500	0.499		mg/L		100	80 - 120
Cobalt	0.500	0.490		mg/L		98	80 - 120
Cobalt, Dissolved	0.500	0.490		mg/L		98	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

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

Lab Sample ID: LCS 180-354079/2-A
Matrix: Water
Analysis Batch: 355148

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 354079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.500	0.494		mg/L		99	80 - 120
Lead, Dissolved	0.500	0.494		mg/L		99	80 - 120
Lithium	0.500	0.490		mg/L		98	80 - 120
Lithium, Dissolved	0.500	0.490		mg/L		98	80 - 120
Molybdenum	0.500	0.501		mg/L		100	80 - 120
Molybdenum, Dissolved	0.500	0.501		mg/L		100	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Selenium, Dissolved	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	1.04		mg/L		104	80 - 120
Thallium, Dissolved	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: MB 180-354657/1-A
Matrix: Water
Analysis Batch: 354993

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 354657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00013		0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 17:10	1
Lead, Dissolved	<0.00013		0.0010	0.00013	mg/L		04/27/21 08:50	04/28/21 17:10	1

Lab Sample ID: LCS 180-354657/2-A
Matrix: Water
Analysis Batch: 354993

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 354657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.500	0.515		mg/L		103	80 - 120
Lead, Dissolved	0.500	0.515		mg/L		103	80 - 120

Lab Sample ID: 180-119924-43 MS
Matrix: Water
Analysis Batch: 354993

Client Sample ID: DUP-010
Prep Type: Total Recoverable
Prep Batch: 354657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.0012		0.500	0.499		mg/L		100	75 - 125
Lead, Dissolved	0.0012		0.500	0.499		mg/L		100	75 - 125

Lab Sample ID: 180-119924-43 MSD
Matrix: Water
Analysis Batch: 354993

Client Sample ID: DUP-010
Prep Type: Total Recoverable
Prep Batch: 354657

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.0012		0.500	0.511		mg/L		102	75 - 125	2	20
Lead, Dissolved	0.0012		0.500	0.511		mg/L		102	75 - 125	2	20

Lab Sample ID: 180-119924-22 MS
Matrix: Water
Analysis Batch: 354830

Client Sample ID: SW-6-9.5" FF
Prep Type: Dissolved
Prep Batch: 354077

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.00038		0.250	0.235		mg/L		94	75 - 125
Antimony, Dissolved	<0.00038		0.250	0.235		mg/L		94	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

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

Lab Sample ID: 180-119924-22 MS

Matrix: Water

Analysis Batch: 354830

Client Sample ID: SW-6-9.5" FF

Prep Type: Dissolved

Prep Batch: 354077

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec.	
	Result			Result	Qualifier				Limits	RPD
Arsenic	0.00041	J	1.00	0.940		mg/L		94	75 - 125	
Arsenic, Dissolved	0.00041	J	1.00	0.940		mg/L		94	75 - 125	
Barium	0.013		1.00	1.01		mg/L		99	75 - 125	
Barium, Dissolved	0.013		1.00	1.01		mg/L		99	75 - 125	
Beryllium	<0.00018		0.500	0.468		mg/L		94	75 - 125	
Beryllium, Dissolved	<0.00018		0.500	0.468		mg/L		94	75 - 125	
Cadmium	<0.00022		0.500	0.491		mg/L		98	75 - 125	
Cadmium, Dissolved	<0.00022		0.500	0.491		mg/L		98	75 - 125	
Calcium	2.8		25.0	30.7		mg/L		112	75 - 125	
Calcium, Dissolved	2.8		25.0	30.7		mg/L		112	75 - 125	
Chromium	<0.0015		0.500	0.475		mg/L		95	75 - 125	
Chromium, Dissolved	<0.0015		0.500	0.475		mg/L		95	75 - 125	
Cobalt	0.00061	J B	0.500	0.464		mg/L		93	75 - 125	
Cobalt, Dissolved	0.00061	J B	0.500	0.464		mg/L		93	75 - 125	
Lead	0.00037	J	0.500	0.481		mg/L		96	75 - 125	
Lead, Dissolved	0.00037	J	0.500	0.481		mg/L		96	75 - 125	
Lithium	<0.0034		0.500	0.470		mg/L		94	75 - 125	
Lithium, Dissolved	<0.0034		0.500	0.470		mg/L		94	75 - 125	
Molybdenum	<0.00061		0.500	0.513		mg/L		103	75 - 125	
Molybdenum, Dissolved	<0.00061		0.500	0.513		mg/L		103	75 - 125	
Selenium	<0.0015		1.00	1.01		mg/L		101	75 - 125	
Selenium, Dissolved	<0.0015		1.00	1.01		mg/L		101	75 - 125	
Thallium	<0.00015		1.00	0.971		mg/L		97	75 - 125	
Thallium, Dissolved	<0.00015		1.00	0.971		mg/L		97	75 - 125	

Lab Sample ID: 180-119924-22 MS

Matrix: Water

Analysis Batch: 354987

Client Sample ID: SW-6-9.5" FF

Prep Type: Dissolved

Prep Batch: 354077

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec.	
	Result			Result	Qualifier				Limits	RPD
Boron	<0.039		1.25	1.23		mg/L		99	75 - 125	
Boron, Dissolved	<0.039		1.25	1.23		mg/L		99	75 - 125	

Lab Sample ID: 180-119924-22 MSD

Matrix: Water

Analysis Batch: 354830

Client Sample ID: SW-6-9.5" FF

Prep Type: Dissolved

Prep Batch: 354077

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.		RPD
	Result			Result	Qualifier				Limits	RPD	Limit
Antimony	<0.00038		0.250	0.234		mg/L		94	75 - 125	0	20
Antimony, Dissolved	<0.00038		0.250	0.234		mg/L		94	75 - 125	0	20
Arsenic	0.00041	J	1.00	0.930		mg/L		93	75 - 125	1	20
Arsenic, Dissolved	0.00041	J	1.00	0.930		mg/L		93	75 - 125	1	20
Barium	0.013		1.00	1.01		mg/L		99	75 - 125	0	20
Barium, Dissolved	0.013		1.00	1.01		mg/L		99	75 - 125	0	20
Beryllium	<0.00018		0.500	0.467		mg/L		93	75 - 125	0	20
Beryllium, Dissolved	<0.00018		0.500	0.467		mg/L		93	75 - 125	0	20
Cadmium	<0.00022		0.500	0.492		mg/L		98	75 - 125	0	20
Cadmium, Dissolved	<0.00022		0.500	0.492		mg/L		98	75 - 125	0	20
Calcium	2.8		25.0	30.7		mg/L		112	75 - 125	0	20

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

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

Lab Sample ID: 180-119924-22 MSD
Matrix: Water
Analysis Batch: 354830

Client Sample ID: SW-6-9.5" FF
Prep Type: Dissolved
Prep Batch: 354077

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result			Result	Qualifier				Limits		
Calcium, Dissolved	2.8		25.0	30.7		mg/L		112	75 - 125	0	20
Chromium	<0.0015		0.500	0.481		mg/L		96	75 - 125	1	20
Chromium, Dissolved	<0.0015		0.500	0.481		mg/L		96	75 - 125	1	20
Cobalt	0.00061	J B	0.500	0.450		mg/L		90	75 - 125	3	20
Cobalt, Dissolved	0.00061	J B	0.500	0.450		mg/L		90	75 - 125	3	20
Lead	0.00037	J	0.500	0.487		mg/L		97	75 - 125	1	20
Lead, Dissolved	0.00037	J	0.500	0.487		mg/L		97	75 - 125	1	20
Lithium	<0.0034		0.500	0.484		mg/L		97	75 - 125	3	20
Lithium, Dissolved	<0.0034		0.500	0.484		mg/L		97	75 - 125	3	20
Molybdenum	<0.00061		0.500	0.506		mg/L		101	75 - 125	1	20
Molybdenum, Dissolved	<0.00061		0.500	0.506		mg/L		101	75 - 125	1	20
Selenium	<0.0015		1.00	0.984		mg/L		98	75 - 125	3	20
Selenium, Dissolved	<0.0015		1.00	0.984		mg/L		98	75 - 125	3	20
Thallium	<0.00015		1.00	0.973		mg/L		97	75 - 125	0	20
Thallium, Dissolved	<0.00015		1.00	0.973		mg/L		97	75 - 125	0	20

Lab Sample ID: 180-119924-22 MSD
Matrix: Water
Analysis Batch: 354987

Client Sample ID: SW-6-9.5" FF
Prep Type: Dissolved
Prep Batch: 354077

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result			Result	Qualifier				Limits		
Boron	<0.039		1.25	1.22		mg/L		97	75 - 125	1	20
Boron, Dissolved	<0.039		1.25	1.22		mg/L		97	75 - 125	1	20

Lab Sample ID: 180-119924-42 MS
Matrix: Water
Analysis Batch: 354448

Client Sample ID: SW-17-1' FF
Prep Type: Dissolved
Prep Batch: 354078

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec.	RPD	Limit
	Result			Result	Qualifier				Limits		
Antimony	<0.00038		0.250	0.242		mg/L		97	75 - 125		
Antimony, Dissolved	<0.00038		0.250	0.242		mg/L		97	75 - 125		
Arsenic	0.00068	J	1.00	0.992		mg/L		99	75 - 125		
Arsenic, Dissolved	0.00068	J	1.00	0.992		mg/L		99	75 - 125		
Barium	0.0062	J	1.00	1.02		mg/L		102	75 - 125		
Barium, Dissolved	0.0062	J	1.00	1.02		mg/L		102	75 - 125		
Beryllium	<0.00018		0.500	0.518		mg/L		104	75 - 125		
Beryllium, Dissolved	<0.00018		0.500	0.518		mg/L		104	75 - 125		
Boron	<0.039		1.25	1.20		mg/L		96	75 - 125		
Boron, Dissolved	<0.039		1.25	1.20		mg/L		96	75 - 125		
Cadmium	<0.00022		0.500	0.511		mg/L		102	75 - 125		
Cadmium, Dissolved	<0.00022		0.500	0.511		mg/L		102	75 - 125		
Calcium	1.9		25.0	30.4		mg/L		114	75 - 125		
Calcium, Dissolved	1.9		25.0	30.4		mg/L		114	75 - 125		
Chromium	<0.0015		0.500	0.511		mg/L		102	75 - 125		
Chromium, Dissolved	<0.0015		0.500	0.511		mg/L		102	75 - 125		
Cobalt	0.00041	J B	0.500	0.502		mg/L		100	75 - 125		
Cobalt, Dissolved	0.00041	J B	0.500	0.502		mg/L		100	75 - 125		
Lithium	<0.0034		0.500	0.489		mg/L		98	75 - 125		
Lithium, Dissolved	<0.0034		0.500	0.489		mg/L		98	75 - 125		

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

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

Lab Sample ID: 180-119924-42 MS

Matrix: Water

Analysis Batch: 354448

Client Sample ID: SW-17-1' FF

Prep Type: Dissolved

Prep Batch: 354078

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	<0.00061		0.500	0.508		mg/L		102	75 - 125
Molybdenum, Dissolved	<0.00061		0.500	0.508		mg/L		102	75 - 125
Selenium	<0.0015		1.00	1.02		mg/L		102	75 - 125
Selenium, Dissolved	<0.0015		1.00	1.02		mg/L		102	75 - 125
Thallium	<0.00015		1.00	1.05		mg/L		105	75 - 125
Thallium, Dissolved	<0.00015		1.00	1.05		mg/L		105	75 - 125

Lab Sample ID: 180-119924-42 MSD

Matrix: Water

Analysis Batch: 354448

Client Sample ID: SW-17-1' FF

Prep Type: Dissolved

Prep Batch: 354078

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.00038		0.250	0.242		mg/L		97	75 - 125	0	20
Antimony, Dissolved	<0.00038		0.250	0.242		mg/L		97	75 - 125	0	20
Arsenic	0.00068	J	1.00	0.996		mg/L		100	75 - 125	0	20
Arsenic, Dissolved	0.00068	J	1.00	0.996		mg/L		100	75 - 125	0	20
Barium	0.0062	J	1.00	1.03		mg/L		102	75 - 125	1	20
Barium, Dissolved	0.0062	J	1.00	1.03		mg/L		102	75 - 125	1	20
Beryllium	<0.00018		0.500	0.503		mg/L		101	75 - 125	3	20
Beryllium, Dissolved	<0.00018		0.500	0.503		mg/L		101	75 - 125	3	20
Boron	<0.039		1.25	1.21		mg/L		97	75 - 125	1	20
Boron, Dissolved	<0.039		1.25	1.21		mg/L		97	75 - 125	1	20
Cadmium	<0.00022		0.500	0.510		mg/L		102	75 - 125	0	20
Cadmium, Dissolved	<0.00022		0.500	0.510		mg/L		102	75 - 125	0	20
Calcium	1.9		25.0	30.1		mg/L		113	75 - 125	1	20
Calcium, Dissolved	1.9		25.0	30.1		mg/L		113	75 - 125	1	20
Chromium	<0.0015		0.500	0.505		mg/L		101	75 - 125	1	20
Chromium, Dissolved	<0.0015		0.500	0.505		mg/L		101	75 - 125	1	20
Cobalt	0.00041	J B	0.500	0.505		mg/L		101	75 - 125	1	20
Cobalt, Dissolved	0.00041	J B	0.500	0.505		mg/L		101	75 - 125	1	20
Lithium	<0.0034		0.500	0.487		mg/L		97	75 - 125	0	20
Lithium, Dissolved	<0.0034		0.500	0.487		mg/L		97	75 - 125	0	20
Molybdenum	<0.00061		0.500	0.513		mg/L		103	75 - 125	1	20
Molybdenum, Dissolved	<0.00061		0.500	0.513		mg/L		103	75 - 125	1	20
Selenium	<0.0015		1.00	1.01		mg/L		101	75 - 125	1	20
Selenium, Dissolved	<0.0015		1.00	1.01		mg/L		101	75 - 125	1	20
Thallium	<0.00015		1.00	1.07		mg/L		107	75 - 125	1	20
Thallium, Dissolved	<0.00015		1.00	1.07		mg/L		107	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-354154/1-A

Matrix: Water

Analysis Batch: 354360

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 354154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/22/21 09:30	04/23/21 10:38	1
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		04/22/21 09:30	04/23/21 10:38	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

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

Lab Sample ID: LCS 180-354154/2-A
Matrix: Water
Analysis Batch: 354360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 354154
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00255		mg/L		102	80 - 120
Mercury, Dissolved	0.00250	0.00255		mg/L		102	80 - 120

Lab Sample ID: MB 180-354215/1-A
Matrix: Water
Analysis Batch: 354475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 354215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 10:56	1
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 10:56	1

Lab Sample ID: LCS 180-354215/2-A
Matrix: Water
Analysis Batch: 354475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 354215
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.50	2.77		ug/L		111	80 - 120
Mercury, Dissolved	2.50	2.77		ug/L		111	80 - 120

Lab Sample ID: 180-119924-11 MS
Matrix: Water
Analysis Batch: 354475

Client Sample ID: SW-3-4'
Prep Type: Total/NA
Prep Batch: 354215
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00013	F1	0.00200	0.00115	F1	mg/L		58	75 - 125
Mercury, Dissolved	<0.00013	F1	0.00200	0.00115	F1	mg/L		58	75 - 125

Lab Sample ID: 180-119924-11 MSD
Matrix: Water
Analysis Batch: 354475

Client Sample ID: SW-3-4'
Prep Type: Total/NA
Prep Batch: 354215
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Mercury	<0.00013	F1	0.00200	0.00113	F1	mg/L		56	75 - 125	2	20
Mercury, Dissolved	<0.00013	F1	0.00200	0.00113	F1	mg/L		56	75 - 125	2	20

Lab Sample ID: MB 180-354242/1-A
Matrix: Water
Analysis Batch: 354475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 354242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.257		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 11:32	1
Mercury, Dissolved	0.257		0.20	0.13	ug/L		04/23/21 12:36	04/24/21 11:32	1

Lab Sample ID: LCS 180-354242/2-A
Matrix: Water
Analysis Batch: 354475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 354242
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.50	2.77		ug/L		111	80 - 120
Mercury, Dissolved	2.50	2.77		ug/L		111	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-354412/1-A
Matrix: Water
Analysis Batch: 354753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 354412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		04/24/21 08:55	04/27/21 10:57	1
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		04/24/21 08:55	04/27/21 10:57	1

Lab Sample ID: LCS 180-354412/2-A
Matrix: Water
Analysis Batch: 354753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 354412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00270		mg/L		108	80 - 120
Mercury, Dissolved	0.00250	0.00270		mg/L		108	80 - 120

Lab Sample ID: 180-119924-37 MS
Matrix: Water
Analysis Batch: 354753

Client Sample ID: SW-15-1.5"
Prep Type: Total/NA
Prep Batch: 354412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00013		0.00100	0.00111		mg/L		111	75 - 125
Mercury, Dissolved	<0.00013		0.00100	0.00111		mg/L		111	75 - 125

Lab Sample ID: 180-119924-37 MSD
Matrix: Water
Analysis Batch: 354753

Client Sample ID: SW-15-1.5"
Prep Type: Total/NA
Prep Batch: 354412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00013		0.00100	0.00113		mg/L		113	75 - 125	2	20
Mercury, Dissolved	<0.00013		0.00100	0.00113		mg/L		113	75 - 125	2	20

Lab Sample ID: MB 180-354413/1-A
Matrix: Water
Analysis Batch: 354753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 354413

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/26/21 11:02	04/27/21 11:28	1
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		04/26/21 11:02	04/27/21 11:28	1

Lab Sample ID: LCS 180-354413/2-A
Matrix: Water
Analysis Batch: 354753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 354413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.50	2.72		ug/L		109	80 - 120
Mercury, Dissolved	2.50	2.72		ug/L		109	80 - 120

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

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

Lab Sample ID: MB 180-353275/2
Matrix: Water
Analysis Batch: 353275

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	<10		10	10	mg/L			04/15/21 17:53	1

Lab Sample ID: LCS 180-353275/1
Matrix: Water
Analysis Batch: 353275

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	486	392		mg/L		81	80 - 120

Lab Sample ID: 180-119924-5 DU
Matrix: Water
Analysis Batch: 353275

Client Sample ID: SW-2-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	44		47.0		mg/L		7	10

Lab Sample ID: MB 180-353452/2
Matrix: Water
Analysis Batch: 353452

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	<10		10	10	mg/L			04/16/21 16:22	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			04/16/21 16:22	1

Lab Sample ID: LCS 180-353452/1
Matrix: Water
Analysis Batch: 353452

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	486	478		mg/L		98	80 - 120
Total Dissolved Solids Field Filtered	486	478		mg/L		98	80 - 120

Lab Sample ID: MB 180-353453/2
Matrix: Water
Analysis Batch: 353453

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	<10		10	10	mg/L			04/16/21 16:29	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			04/16/21 16:29	1

Lab Sample ID: LCS 180-353453/1
Matrix: Water
Analysis Batch: 353453

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	486	420		mg/L		86	80 - 120
Total Dissolved Solids Field Filtered	486	420		mg/L		86	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

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

Lab Sample ID: 180-119924-2 DU
Matrix: Water
Analysis Batch: 353452

Client Sample ID: SW-1-1' FF
Prep Type: Dissolved

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Total Dissolved Solids Field Filtered	57		62.0		mg/L		8	10

Lab Sample ID: 180-119924-22 DU
Matrix: Water
Analysis Batch: 353452

Client Sample ID: SW-6-9.5" FF
Prep Type: Dissolved

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Total Dissolved Solids	110		106		mg/L		6	10
Total Dissolved Solids Field Filtered	110		106		mg/L		6	10

Lab Sample ID: 180-119924-32 DU
Matrix: Water
Analysis Batch: 353453

Client Sample ID: SW-12-1' FF
Prep Type: Dissolved

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Total Dissolved Solids	31		32.0		mg/L		3	10
Total Dissolved Solids Field Filtered	31		32.0		mg/L		3	10

Lab Sample ID: 180-119924-42 DU
Matrix: Water
Analysis Batch: 353453

Client Sample ID: SW-17-1' FF
Prep Type: Dissolved

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Total Dissolved Solids	74		68.0		mg/L		8	10
Total Dissolved Solids Field Filtered	74		68.0		mg/L		8	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-357261/102
Matrix: Water
Analysis Batch: 357261

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 03:30	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/22/21 03:30	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 03:30	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 03:30	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/22/21 03:30	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/22/21 03:30	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: MB 180-357261/30
Matrix: Water
Analysis Batch: 357261

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 16:25	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/21/21 16:25	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 16:25	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 16:25	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 16:25	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 16:25	1

Lab Sample ID: MB 180-357261/54
Matrix: Water
Analysis Batch: 357261

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 20:04	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/21/21 20:04	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 20:04	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 20:04	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 20:04	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 20:04	1

Lab Sample ID: MB 180-357261/6
Matrix: Water
Analysis Batch: 357261

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 12:27	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/21/21 12:27	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 12:27	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 12:27	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 12:27	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 12:27	1

Lab Sample ID: MB 180-357261/78
Matrix: Water
Analysis Batch: 357261

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 23:45	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/21/21 23:45	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 23:45	1
Bicarbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 23:45	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/21/21 23:45	1
Carbonate Alkalinity as CaCO3, Dissolved	<5.0		5.0	5.0	mg/L			04/21/21 23:45	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-357261/101
Matrix: Water
Analysis Batch: 357261

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Dissolved	250	237		mg/L		95	90 - 110
Total Alkalinity as CaCO3 to pH 4.5	250	237		mg/L		95	90 - 110

Lab Sample ID: LCS 180-357261/29
Matrix: Water
Analysis Batch: 357261

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Dissolved	250	233		mg/L		93	90 - 110
Total Alkalinity as CaCO3 to pH 4.5	250	233		mg/L		93	90 - 110

Lab Sample ID: LCS 180-357261/53
Matrix: Water
Analysis Batch: 357261

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Dissolved	250	238		mg/L		95	90 - 110
Total Alkalinity as CaCO3 to pH 4.5	250	238		mg/L		95	90 - 110

Lab Sample ID: LCS 180-357261/77
Matrix: Water
Analysis Batch: 357261

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Dissolved	250	234		mg/L		94	90 - 110
Total Alkalinity as CaCO3 to pH 4.5	250	234		mg/L		94	90 - 110

Lab Sample ID: LLCS 180-357261/100
Matrix: Water
Analysis Batch: 357261

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Dissolved	20.0	20.5		mg/L		103	90 - 110
Total Alkalinity as CaCO3 to pH 4.5	20.0	20.5		mg/L		103	90 - 110

Lab Sample ID: LLCS 180-357261/28
Matrix: Water
Analysis Batch: 357261

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Dissolved	20.0	20.9		mg/L		105	90 - 110
Total Alkalinity as CaCO3 to pH 4.5	20.0	20.9		mg/L		105	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LLCS 180-357261/52
Matrix: Water
Analysis Batch: 357261

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Dissolved	20.0	22.3	*+	mg/L		112	90 - 110
Total Alkalinity as CaCO3 to pH 4.5	20.0	22.3	*+	mg/L		112	90 - 110

Lab Sample ID: LLCS 180-357261/76
Matrix: Water
Analysis Batch: 357261

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Dissolved	20.0	40.6	*+ cn	mg/L		203	90 - 110
Total Alkalinity as CaCO3 to pH 4.5	20.0	40.6	*+ cn	mg/L		203	90 - 110

Lab Sample ID: 180-119924-1 DU
Matrix: Water
Analysis Batch: 357261

Client Sample ID: SW-1-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.76		mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	<5.0		5.76		mg/L		NC	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: 180-119924-25 DU
Matrix: Water
Analysis Batch: 357261

Client Sample ID: SW-9-4'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*+ cn	<5.0	*+	mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: 180-119924-31 DU
Matrix: Water
Analysis Batch: 357261

Client Sample ID: SW-12-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	<5.0	*+ cn	<5.0	*+	mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: MB 180-357758/6
Matrix: Water
Analysis Batch: 357758

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Dissolved	<5.0		5.0	5.0	mg/L			04/26/21 11:58	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			04/26/21 11:58	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			04/26/21 11:58	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: MB 180-357758/6
Matrix: Water
Analysis Batch: 357758

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃ , Dissolved	<5.0		5.0	5.0	mg/L			04/26/21 11:58	1
Carbonate Alkalinity as CaCO ₃	<5.0		5.0	5.0	mg/L			04/26/21 11:58	1
Carbonate Alkalinity as CaCO ₃ , Dissolved	<5.0		5.0	5.0	mg/L			04/26/21 11:58	1

Lab Sample ID: LCS 180-357758/5
Matrix: Water
Analysis Batch: 357758

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Dissolved	250	237		mg/L		95	90 - 110
Total Alkalinity as CaCO ₃ to pH 4.5	250	237		mg/L		95	90 - 110

Lab Sample ID: LLCS 180-357758/4
Matrix: Water
Analysis Batch: 357758

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Dissolved	20.0	39.4	*+	mg/L		197	90 - 110
Total Alkalinity as CaCO ₃ to pH 4.5	20.0	39.4	*+	mg/L		197	90 - 110

Lab Sample ID: MB 180-358706/6
Matrix: Water
Analysis Batch: 358706

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO ₃ to pH 4.5	<5.0		5.0	5.0	mg/L			05/27/21 11:44	1
Bicarbonate Alkalinity as CaCO ₃	<5.0		5.0	5.0	mg/L			05/27/21 11:44	1
Carbonate Alkalinity as CaCO ₃	<5.0		5.0	5.0	mg/L			05/27/21 11:44	1

Lab Sample ID: LCS 180-358706/5
Matrix: Water
Analysis Batch: 358706

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	250	240		mg/L		96	90 - 110

Lab Sample ID: LLCS 180-358706/4
Matrix: Water
Analysis Batch: 358706

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	17.5	15.9		mg/L		91	90 - 110

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: 180-119924-10 DU
Matrix: Water
Analysis Batch: 357261

Client Sample ID: SW-3-1' FF
Prep Type: Dissolved

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Alkalinity, Dissolved	<5.0	*+	<5.0	*+	mg/L		NC		20
Bicarbonate Alkalinity as CaCO ₃ , Dissolved	<5.0		<5.0		mg/L		NC		20
Carbonate Alkalinity as CaCO ₃ , Dissolved	<5.0		<5.0		mg/L		NC		20

Lab Sample ID: 180-119924-16 DU
Matrix: Water
Analysis Batch: 357261

Client Sample ID: SW-5-1' FF
Prep Type: Dissolved

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Alkalinity, Dissolved	<5.0	*+	<5.0	*+	mg/L		NC		20
Bicarbonate Alkalinity as CaCO ₃ , Dissolved	<5.0		<5.0		mg/L		NC		20
Carbonate Alkalinity as CaCO ₃ , Dissolved	<5.0		<5.0		mg/L		NC		20

Lab Sample ID: 180-119924-40 DU
Matrix: Water
Analysis Batch: 357261

Client Sample ID: SW-16-1.5" FF
Prep Type: Dissolved

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Alkalinity, Dissolved	11		11.5		mg/L		3		20
Bicarbonate Alkalinity as CaCO ₃ , Dissolved	11		11.5		mg/L		3		20
Carbonate Alkalinity as CaCO ₃ , Dissolved	<5.0		<5.0		mg/L		NC		20

Lab Sample ID: 180-119924-46 DU
Matrix: Water
Analysis Batch: 357758

Client Sample ID: DUP-02-FF
Prep Type: Dissolved

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Alkalinity, Dissolved	<5.0	*+ cn	<5.0	*+	mg/L		NC		20
Total Alkalinity as CaCO ₃ to pH 4.5	<5.0	*+ cn	<5.0	*+	mg/L		NC		20
Bicarbonate Alkalinity as CaCO ₃	<5.0		<5.0		mg/L		NC		20
Bicarbonate Alkalinity as CaCO ₃ , Dissolved	<5.0		<5.0		mg/L		NC		20
Carbonate Alkalinity as CaCO ₃	<5.0		<5.0		mg/L		NC		20
Carbonate Alkalinity as CaCO ₃ , Dissolved	<5.0		<5.0		mg/L		NC		20

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

HPLC/IC

Analysis Batch: 353596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-16	SW-5-1' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-17	SW-5-13'	Total/NA	Water	300.0	
180-119924-18	SW-5-13' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-19	SW-6-1'	Total/NA	Water	300.0	
180-119924-20	SW-6-1' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-21	SW-6-9.5"	Total/NA	Water	300.0	
180-119924-22	SW-6-9.5" FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-23	SW-9-1'	Total/NA	Water	300.0	
180-119924-24	SW-9-1' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-38	SW-15-1.5" FF	Dissolved	Water	EPA 300.0 R2.1	
MB 180-353596/54	Method Blank	Total/NA	Water	300.0	
LCS 180-353596/53	Lab Control Sample	Total/NA	Water	300.0	
180-119924-38 MS	SW-15-1.5" FF	Dissolved	Water	300.0	
180-119924-38 MSD	SW-15-1.5" FF	Dissolved	Water	300.0	

Analysis Batch: 353597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-25	SW-9-4'	Total/NA	Water	300.0	
180-119924-26	SW-9-4' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-27	SW-10-2'	Total/NA	Water	300.0	
180-119924-28	SW-10-2' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-29	SW-11-1'	Total/NA	Water	300.0	
180-119924-30	SW-11-1' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-31	SW-12-1'	Total/NA	Water	300.0	
180-119924-32	SW-12-1' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-33	SW-13-1'	Total/NA	Water	300.0	
180-119924-34	SW-13-1' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-35	SW-14-1.5"	Total/NA	Water	300.0	
180-119924-36	SW-14-1.5" FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-37	SW-15-1.5"	Total/NA	Water	300.0	
MB 180-353597/48	Method Blank	Total/NA	Water	300.0	
MB 180-353597/6	Method Blank	Total/NA	Water	300.0	
LCS 180-353597/47	Lab Control Sample	Total/NA	Water	300.0	
LCS 180-353597/5	Lab Control Sample	Total/NA	Water	300.0	
180-119924-37 MS	SW-15-1.5"	Total/NA	Water	300.0	
180-119924-37 MSD	SW-15-1.5"	Total/NA	Water	300.0	

Analysis Batch: 353598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-39	SW-16-1.5"	Total/NA	Water	300.0	
180-119924-40	SW-16-1.5" FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-41	SW-17-1'	Total/NA	Water	300.0	
180-119924-42	SW-17-1' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-43	DUP-010	Total/NA	Water	300.0	
180-119924-44	DUP-01-FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-45	DUP-02	Total/NA	Water	300.0	
180-119924-46	DUP-02-FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-47	DUP-03	Total/NA	Water	300.0	
180-119924-48	DUP-03-FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-49	EB-01	Total/NA	Water	300.0	
180-119924-50	EB-02	Total/NA	Water	300.0	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

HPLC/IC (Continued)

Analysis Batch: 353598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-353598/6	Method Blank	Total/NA	Water	300.0	
LCS 180-353598/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 353748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-2	SW-1-1' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-3	SW-1-7'	Total/NA	Water	300.0	
180-119924-4	SW-1-7' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-5	SW-2-1'	Total/NA	Water	300.0	
180-119924-6	SW-2-1' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-7	SW-2-7'	Total/NA	Water	300.0	
180-119924-14	SW-4-1.5" FF	Dissolved	Water	EPA 300.0 R2.1	
MB 180-353748/6	Method Blank	Total/NA	Water	300.0	
LCS 180-353748/5	Lab Control Sample	Total/NA	Water	300.0	
180-119924-14 MS	SW-4-1.5" FF	Dissolved	Water	300.0	
180-119924-14 MSD	SW-4-1.5" FF	Dissolved	Water	300.0	

Analysis Batch: 353756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-1	SW-1-1'	Total/NA	Water	300.0	
180-119924-13	SW-4-1.5"	Total/NA	Water	300.0	
MB 180-353756/6	Method Blank	Total/NA	Water	300.0	
LCS 180-353756/5	Lab Control Sample	Total/NA	Water	300.0	
180-119924-13 MS	SW-4-1.5"	Total/NA	Water	300.0	
180-119924-13 MSD	SW-4-1.5"	Total/NA	Water	300.0	

Analysis Batch: 354690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-8	SW-2-7' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-9	SW-3-1'	Total/NA	Water	300.0	
180-119924-10	SW-3-1' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-11	SW-3-4'	Total/NA	Water	300.0	
180-119924-12	SW-3-4' FF	Dissolved	Water	EPA 300.0 R2.1	
180-119924-15	SW-5-1'	Total/NA	Water	300.0	
MB 180-354690/6	Method Blank	Total/NA	Water	300.0	
LCS 180-354690/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 354077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-13	SW-4-1.5"	Total Recoverable	Water	3005A	
180-119924-14	SW-4-1.5" FF	Dissolved	Water	3005A	
180-119924-15	SW-5-1'	Total Recoverable	Water	3005A	
180-119924-16	SW-5-1' FF	Dissolved	Water	3005A	
180-119924-17	SW-5-13'	Total Recoverable	Water	3005A	
180-119924-18	SW-5-13' FF	Dissolved	Water	3005A	
180-119924-19	SW-6-1'	Total Recoverable	Water	3005A	
180-119924-20	SW-6-1' FF	Dissolved	Water	3005A	
180-119924-21	SW-6-9.5"	Total Recoverable	Water	3005A	
180-119924-22	SW-6-9.5" FF	Dissolved	Water	3005A	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Metals (Continued)

Prep Batch: 354077 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-23	SW-9-1'	Total Recoverable	Water	3005A	
180-119924-24	SW-9-1' FF	Dissolved	Water	3005A	
180-119924-25	SW-9-4'	Total Recoverable	Water	3005A	
180-119924-26	SW-9-4' FF	Dissolved	Water	3005A	
180-119924-27	SW-10-2'	Total Recoverable	Water	3005A	
180-119924-28	SW-10-2' FF	Dissolved	Water	3005A	
180-119924-29	SW-11-1'	Total Recoverable	Water	3005A	
180-119924-30	SW-11-1' FF	Dissolved	Water	3005A	
180-119924-31	SW-12-1'	Total Recoverable	Water	3005A	
180-119924-32	SW-12-1' FF	Dissolved	Water	3005A	
MB 180-354077/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-354077/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-119924-22 MS	SW-6-9.5" FF	Dissolved	Water	3005A	
180-119924-22 MSD	SW-6-9.5" FF	Dissolved	Water	3005A	

Prep Batch: 354078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-33	SW-13-1'	Total Recoverable	Water	3005A	
180-119924-34	SW-13-1' FF	Dissolved	Water	3005A	
180-119924-35	SW-14-1.5"	Total Recoverable	Water	3005A	
180-119924-36	SW-14-1.5" FF	Dissolved	Water	3005A	
180-119924-37	SW-15-1.5"	Total Recoverable	Water	3005A	
180-119924-38	SW-15-1.5" FF	Dissolved	Water	3005A	
180-119924-39	SW-16-1.5"	Total Recoverable	Water	3005A	
180-119924-40	SW-16-1.5" FF	Dissolved	Water	3005A	
180-119924-41	SW-17-1'	Total Recoverable	Water	3005A	
180-119924-42	SW-17-1' FF	Dissolved	Water	3005A	
180-119924-43	DUP-010	Total Recoverable	Water	3005A	
180-119924-44	DUP-01-FF	Dissolved	Water	3005A	
180-119924-45	DUP-02	Total Recoverable	Water	3005A	
180-119924-46	DUP-02-FF	Dissolved	Water	3005A	
180-119924-47	DUP-03	Total Recoverable	Water	3005A	
180-119924-48	DUP-03-FF	Dissolved	Water	3005A	
180-119924-49	EB-01	Total Recoverable	Water	3005A	
180-119924-50	EB-02	Total Recoverable	Water	3005A	
MB 180-354078/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-354078/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-119924-42 MS	SW-17-1' FF	Dissolved	Water	3005A	
180-119924-42 MSD	SW-17-1' FF	Dissolved	Water	3005A	

Prep Batch: 354079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-1	SW-1-1'	Total Recoverable	Water	3005A	
180-119924-2	SW-1-1' FF	Dissolved	Water	3005A	
180-119924-3	SW-1-7'	Total Recoverable	Water	3005A	
180-119924-4	SW-1-7' FF	Dissolved	Water	3005A	
180-119924-5	SW-2-1'	Total Recoverable	Water	3005A	
180-119924-6	SW-2-1' FF	Dissolved	Water	3005A	
180-119924-7	SW-2-7'	Total Recoverable	Water	3005A	
180-119924-8	SW-2-7' FF	Dissolved	Water	3005A	
180-119924-9	SW-3-1'	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Metals (Continued)

Prep Batch: 354079 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-10	SW-3-1' FF	Dissolved	Water	3005A	
180-119924-11	SW-3-4'	Total Recoverable	Water	3005A	
180-119924-12	SW-3-4' FF	Dissolved	Water	3005A	
MB 180-354079/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-354079/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 354154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-1	SW-1-1'	Total/NA	Water	7470A	
180-119924-2	SW-1-1' FF	Dissolved	Water	7470A	
180-119924-3	SW-1-7'	Total/NA	Water	7470A	
180-119924-4	SW-1-7' FF	Dissolved	Water	7470A	
180-119924-5	SW-2-1'	Total/NA	Water	7470A	
MB 180-354154/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-354154/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 354215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-6	SW-2-1' FF	Dissolved	Water	7470A	
180-119924-7	SW-2-7'	Total/NA	Water	7470A	
180-119924-8	SW-2-7' FF	Dissolved	Water	7470A	
180-119924-9	SW-3-1'	Total/NA	Water	7470A	
180-119924-10	SW-3-1' FF	Dissolved	Water	7470A	
180-119924-11	SW-3-4'	Total/NA	Water	7470A	
180-119924-12	SW-3-4' FF	Dissolved	Water	7470A	
180-119924-13	SW-4-1.5"	Total/NA	Water	7470A	
180-119924-14	SW-4-1.5" FF	Dissolved	Water	7470A	
180-119924-15	SW-5-1'	Total/NA	Water	7470A	
180-119924-16	SW-5-1' FF	Dissolved	Water	7470A	
180-119924-17	SW-5-13'	Total/NA	Water	7470A	
180-119924-18	SW-5-13' FF	Dissolved	Water	7470A	
180-119924-19	SW-6-1'	Total/NA	Water	7470A	
180-119924-20	SW-6-1' FF	Dissolved	Water	7470A	
180-119924-21	SW-6-9.5"	Total/NA	Water	7470A	
180-119924-22	SW-6-9.5" FF	Dissolved	Water	7470A	
180-119924-23	SW-9-1'	Total/NA	Water	7470A	
MB 180-354215/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-354215/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-119924-11 MS	SW-3-4'	Total/NA	Water	7470A	
180-119924-11 MSD	SW-3-4'	Total/NA	Water	7470A	

Prep Batch: 354242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-24	SW-9-1' FF	Dissolved	Water	7470A	
180-119924-49	EB-01	Total/NA	Water	7470A	
180-119924-50	EB-02	Total/NA	Water	7470A	
MB 180-354242/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-354242/2-A	Lab Control Sample	Total/NA	Water	7470A	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Metals

Analysis Batch: 354360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-1	SW-1-1'	Total/NA	Water	EPA 7470A	354154
180-119924-2	SW-1-1' FF	Dissolved	Water	EPA 7470A	354154
180-119924-3	SW-1-7'	Total/NA	Water	EPA 7470A	354154
180-119924-4	SW-1-7' FF	Dissolved	Water	EPA 7470A	354154
180-119924-5	SW-2-1'	Total/NA	Water	EPA 7470A	354154
MB 180-354154/1-A	Method Blank	Total/NA	Water	EPA 7470A	354154
LCS 180-354154/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	354154

Prep Batch: 354412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-25	SW-9-4'	Total/NA	Water	7470A	
180-119924-26	SW-9-4' FF	Dissolved	Water	7470A	
180-119924-27	SW-10-2'	Total/NA	Water	7470A	
180-119924-37	SW-15-1.5"	Total/NA	Water	7470A	
180-119924-38	SW-15-1.5" FF	Dissolved	Water	7470A	
180-119924-39	SW-16-1.5"	Total/NA	Water	7470A	
180-119924-40	SW-16-1.5" FF	Dissolved	Water	7470A	
180-119924-41	SW-17-1'	Total/NA	Water	7470A	
180-119924-42	SW-17-1' FF	Dissolved	Water	7470A	
180-119924-43	DUP-010	Total/NA	Water	7470A	
180-119924-44	DUP-01-FF	Dissolved	Water	7470A	
180-119924-45	DUP-02	Total/NA	Water	7470A	
180-119924-46	DUP-02-FF	Dissolved	Water	7470A	
180-119924-47	DUP-03	Total/NA	Water	7470A	
180-119924-48	DUP-03-FF	Dissolved	Water	7470A	
MB 180-354412/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-354412/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-119924-37 MS	SW-15-1.5"	Total/NA	Water	7470A	
180-119924-37 MSD	SW-15-1.5"	Total/NA	Water	7470A	

Prep Batch: 354413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-28	SW-10-2' FF	Dissolved	Water	7470A	
180-119924-29	SW-11-1'	Total/NA	Water	7470A	
180-119924-30	SW-11-1' FF	Dissolved	Water	7470A	
180-119924-31	SW-12-1'	Total/NA	Water	7470A	
180-119924-32	SW-12-1' FF	Dissolved	Water	7470A	
180-119924-33	SW-13-1'	Total/NA	Water	7470A	
180-119924-34	SW-13-1' FF	Dissolved	Water	7470A	
180-119924-35	SW-14-1.5"	Total/NA	Water	7470A	
180-119924-36	SW-14-1.5" FF	Dissolved	Water	7470A	
MB 180-354413/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-354413/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 354448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-33	SW-13-1'	Total Recoverable	Water	EPA 6020B	354078
180-119924-34	SW-13-1' FF	Dissolved	Water	EPA 6020B	354078
180-119924-35	SW-14-1.5"	Total Recoverable	Water	EPA 6020B	354078
180-119924-36	SW-14-1.5" FF	Dissolved	Water	EPA 6020B	354078
180-119924-37	SW-15-1.5"	Total Recoverable	Water	EPA 6020B	354078

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Metals (Continued)

Analysis Batch: 354448 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-38	SW-15-1.5" FF	Dissolved	Water	EPA 6020B	354078
180-119924-39	SW-16-1.5"	Total Recoverable	Water	EPA 6020B	354078
180-119924-40	SW-16-1.5" FF	Dissolved	Water	EPA 6020B	354078
180-119924-41	SW-17-1'	Total Recoverable	Water	EPA 6020B	354078
180-119924-42	SW-17-1' FF	Dissolved	Water	EPA 6020B	354078
180-119924-43	DUP-010	Total Recoverable	Water	EPA 6020B	354078
180-119924-44	DUP-01-FF	Dissolved	Water	EPA 6020B	354078
180-119924-45	DUP-02	Total Recoverable	Water	EPA 6020B	354078
180-119924-46	DUP-02-FF	Dissolved	Water	EPA 6020B	354078
180-119924-47	DUP-03	Total Recoverable	Water	EPA 6020B	354078
180-119924-48	DUP-03-FF	Dissolved	Water	EPA 6020B	354078
180-119924-49	EB-01	Total Recoverable	Water	EPA 6020B	354078
180-119924-50	EB-02	Total Recoverable	Water	EPA 6020B	354078
MB 180-354078/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	354078
LCS 180-354078/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	354078
180-119924-42 MS	SW-17-1' FF	Dissolved	Water	EPA 6020B	354078
180-119924-42 MSD	SW-17-1' FF	Dissolved	Water	EPA 6020B	354078

Analysis Batch: 354475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-6	SW-2-1' FF	Dissolved	Water	EPA 7470A	354215
180-119924-7	SW-2-7'	Total/NA	Water	EPA 7470A	354215
180-119924-8	SW-2-7' FF	Dissolved	Water	EPA 7470A	354215
180-119924-9	SW-3-1'	Total/NA	Water	EPA 7470A	354215
180-119924-10	SW-3-1' FF	Dissolved	Water	EPA 7470A	354215
180-119924-11	SW-3-4'	Total/NA	Water	EPA 7470A	354215
180-119924-12	SW-3-4' FF	Dissolved	Water	EPA 7470A	354215
180-119924-13	SW-4-1.5"	Total/NA	Water	EPA 7470A	354215
180-119924-14	SW-4-1.5" FF	Dissolved	Water	EPA 7470A	354215
180-119924-15	SW-5-1'	Total/NA	Water	EPA 7470A	354215
180-119924-16	SW-5-1' FF	Dissolved	Water	EPA 7470A	354215
180-119924-17	SW-5-13'	Total/NA	Water	EPA 7470A	354215
180-119924-18	SW-5-13' FF	Dissolved	Water	EPA 7470A	354215
180-119924-19	SW-6-1'	Total/NA	Water	EPA 7470A	354215
180-119924-20	SW-6-1' FF	Dissolved	Water	EPA 7470A	354215
180-119924-21	SW-6-9.5"	Total/NA	Water	EPA 7470A	354215
180-119924-22	SW-6-9.5" FF	Dissolved	Water	EPA 7470A	354215
180-119924-23	SW-9-1'	Total/NA	Water	EPA 7470A	354215
180-119924-24	SW-9-1' FF	Dissolved	Water	EPA 7470A	354242
180-119924-49	EB-01	Total/NA	Water	EPA 7470A	354242
180-119924-50	EB-02	Total/NA	Water	EPA 7470A	354242
MB 180-354215/1-A	Method Blank	Total/NA	Water	EPA 7470A	354215
MB 180-354242/1-A	Method Blank	Total/NA	Water	EPA 7470A	354242
LCS 180-354215/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	354215
LCS 180-354242/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	354242
180-119924-11 MS	SW-3-4'	Total/NA	Water	EPA 7470A	354215
180-119924-11 MSD	SW-3-4'	Total/NA	Water	EPA 7470A	354215

Analysis Batch: 354643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-45	DUP-02	Total Recoverable	Water	EPA 6020B	354078

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Metals (Continued)

Analysis Batch: 354643 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-46	DUP-02-FF	Dissolved	Water	EPA 6020B	354078
180-119924-47	DUP-03	Total Recoverable	Water	EPA 6020B	354078
180-119924-48	DUP-03-FF	Dissolved	Water	EPA 6020B	354078
180-119924-49	EB-01	Total Recoverable	Water	EPA 6020B	354078
180-119924-50	EB-02	Total Recoverable	Water	EPA 6020B	354078

Prep Batch: 354657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-33	SW-13-1'	Total Recoverable	Water	3005A	
180-119924-34	SW-13-1' FF	Dissolved	Water	3005A	
180-119924-35	SW-14-1.5"	Total Recoverable	Water	3005A	
180-119924-36	SW-14-1.5" FF	Dissolved	Water	3005A	
180-119924-37	SW-15-1.5"	Total Recoverable	Water	3005A	
180-119924-38	SW-15-1.5" FF	Dissolved	Water	3005A	
180-119924-39	SW-16-1.5"	Total Recoverable	Water	3005A	
180-119924-40	SW-16-1.5" FF	Dissolved	Water	3005A	
180-119924-41	SW-17-1'	Total Recoverable	Water	3005A	
180-119924-42	SW-17-1' FF	Dissolved	Water	3005A	
180-119924-43	DUP-010	Total Recoverable	Water	3005A	
180-119924-44	DUP-01-FF	Dissolved	Water	3005A	
180-119924-45	DUP-02	Total Recoverable	Water	3005A	
180-119924-46	DUP-02-FF	Dissolved	Water	3005A	
180-119924-47	DUP-03	Total Recoverable	Water	3005A	
180-119924-48	DUP-03-FF	Dissolved	Water	3005A	
180-119924-49	EB-01	Total Recoverable	Water	3005A	
180-119924-50	EB-02	Total Recoverable	Water	3005A	
MB 180-354657/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-354657/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-119924-43 MS	DUP-010	Total Recoverable	Water	3005A	
180-119924-43 MSD	DUP-010	Total Recoverable	Water	3005A	

Analysis Batch: 354753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-25	SW-9-4'	Total/NA	Water	EPA 7470A	354412
180-119924-26	SW-9-4' FF	Dissolved	Water	EPA 7470A	354412
180-119924-27	SW-10-2'	Total/NA	Water	EPA 7470A	354412
180-119924-28	SW-10-2' FF	Dissolved	Water	EPA 7470A	354413
180-119924-29	SW-11-1'	Total/NA	Water	EPA 7470A	354413
180-119924-30	SW-11-1' FF	Dissolved	Water	EPA 7470A	354413
180-119924-31	SW-12-1'	Total/NA	Water	EPA 7470A	354413
180-119924-32	SW-12-1' FF	Dissolved	Water	EPA 7470A	354413
180-119924-33	SW-13-1'	Total/NA	Water	EPA 7470A	354413
180-119924-34	SW-13-1' FF	Dissolved	Water	EPA 7470A	354413
180-119924-35	SW-14-1.5"	Total/NA	Water	EPA 7470A	354413
180-119924-36	SW-14-1.5" FF	Dissolved	Water	EPA 7470A	354413
180-119924-37	SW-15-1.5"	Total/NA	Water	EPA 7470A	354412
180-119924-38	SW-15-1.5" FF	Dissolved	Water	EPA 7470A	354412
180-119924-39	SW-16-1.5"	Total/NA	Water	EPA 7470A	354412
180-119924-40	SW-16-1.5" FF	Dissolved	Water	EPA 7470A	354412
180-119924-41	SW-17-1'	Total/NA	Water	EPA 7470A	354412
180-119924-42	SW-17-1' FF	Dissolved	Water	EPA 7470A	354412

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Metals (Continued)

Analysis Batch: 354753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-43	DUP-010	Total/NA	Water	EPA 7470A	354412
180-119924-44	DUP-01-FF	Dissolved	Water	EPA 7470A	354412
180-119924-45	DUP-02	Total/NA	Water	EPA 7470A	354412
180-119924-46	DUP-02-FF	Dissolved	Water	EPA 7470A	354412
180-119924-47	DUP-03	Total/NA	Water	EPA 7470A	354412
180-119924-48	DUP-03-FF	Dissolved	Water	EPA 7470A	354412
MB 180-354412/1-A	Method Blank	Total/NA	Water	EPA 7470A	354412
MB 180-354413/1-A	Method Blank	Total/NA	Water	EPA 7470A	354413
LCS 180-354412/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	354412
LCS 180-354413/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	354413
180-119924-37 MS	SW-15-1.5"	Total/NA	Water	EPA 7470A	354412
180-119924-37 MSD	SW-15-1.5"	Total/NA	Water	EPA 7470A	354412

Analysis Batch: 354830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-13	SW-4-1.5"	Total Recoverable	Water	EPA 6020B	354077
180-119924-14	SW-4-1.5" FF	Dissolved	Water	EPA 6020B	354077
180-119924-15	SW-5-1'	Total Recoverable	Water	EPA 6020B	354077
180-119924-16	SW-5-1' FF	Dissolved	Water	EPA 6020B	354077
180-119924-17	SW-5-13'	Total Recoverable	Water	EPA 6020B	354077
180-119924-18	SW-5-13' FF	Dissolved	Water	EPA 6020B	354077
180-119924-19	SW-6-1'	Total Recoverable	Water	EPA 6020B	354077
180-119924-20	SW-6-1' FF	Dissolved	Water	EPA 6020B	354077
180-119924-21	SW-6-9.5"	Total Recoverable	Water	EPA 6020B	354077
180-119924-22	SW-6-9.5" FF	Dissolved	Water	EPA 6020B	354077
180-119924-23	SW-9-1'	Total Recoverable	Water	EPA 6020B	354077
180-119924-24	SW-9-1' FF	Dissolved	Water	EPA 6020B	354077
180-119924-25	SW-9-4'	Total Recoverable	Water	EPA 6020B	354077
180-119924-26	SW-9-4' FF	Dissolved	Water	EPA 6020B	354077
180-119924-27	SW-10-2'	Total Recoverable	Water	EPA 6020B	354077
180-119924-28	SW-10-2' FF	Dissolved	Water	EPA 6020B	354077
180-119924-29	SW-11-1'	Total Recoverable	Water	EPA 6020B	354077
180-119924-30	SW-11-1' FF	Dissolved	Water	EPA 6020B	354077
180-119924-31	SW-12-1'	Total Recoverable	Water	EPA 6020B	354077
180-119924-32	SW-12-1' FF	Dissolved	Water	EPA 6020B	354077
MB 180-354077/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	354077
LCS 180-354077/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	354077
180-119924-22 MS	SW-6-9.5" FF	Dissolved	Water	EPA 6020B	354077
180-119924-22 MSD	SW-6-9.5" FF	Dissolved	Water	EPA 6020B	354077

Analysis Batch: 354987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-13	SW-4-1.5"	Total Recoverable	Water	EPA 6020B	354077
180-119924-14	SW-4-1.5" FF	Dissolved	Water	EPA 6020B	354077
180-119924-15	SW-5-1'	Total Recoverable	Water	EPA 6020B	354077
180-119924-16	SW-5-1' FF	Dissolved	Water	EPA 6020B	354077
180-119924-17	SW-5-13'	Total Recoverable	Water	EPA 6020B	354077
180-119924-18	SW-5-13' FF	Dissolved	Water	EPA 6020B	354077
180-119924-19	SW-6-1'	Total Recoverable	Water	EPA 6020B	354077
180-119924-20	SW-6-1' FF	Dissolved	Water	EPA 6020B	354077
180-119924-21	SW-6-9.5"	Total Recoverable	Water	EPA 6020B	354077

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Metals (Continued)

Analysis Batch: 354987 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-22	SW-6-9.5" FF	Dissolved	Water	EPA 6020B	354077
180-119924-23	SW-9-1'	Total Recoverable	Water	EPA 6020B	354077
180-119924-24	SW-9-1' FF	Dissolved	Water	EPA 6020B	354077
180-119924-25	SW-9-4'	Total Recoverable	Water	EPA 6020B	354077
180-119924-26	SW-9-4' FF	Dissolved	Water	EPA 6020B	354077
180-119924-27	SW-10-2'	Total Recoverable	Water	EPA 6020B	354077
180-119924-28	SW-10-2' FF	Dissolved	Water	EPA 6020B	354077
180-119924-29	SW-11-1'	Total Recoverable	Water	EPA 6020B	354077
180-119924-30	SW-11-1' FF	Dissolved	Water	EPA 6020B	354077
180-119924-31	SW-12-1'	Total Recoverable	Water	EPA 6020B	354077
180-119924-32	SW-12-1' FF	Dissolved	Water	EPA 6020B	354077
MB 180-354077/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	354077
LCS 180-354077/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	354077
180-119924-22 MS	SW-6-9.5" FF	Dissolved	Water	EPA 6020B	354077
180-119924-22 MSD	SW-6-9.5" FF	Dissolved	Water	EPA 6020B	354077

Analysis Batch: 354993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-33	SW-13-1'	Total Recoverable	Water	EPA 6020B	354657
180-119924-34	SW-13-1' FF	Dissolved	Water	EPA 6020B	354657
180-119924-35	SW-14-1.5"	Total Recoverable	Water	EPA 6020B	354657
180-119924-36	SW-14-1.5" FF	Dissolved	Water	EPA 6020B	354657
180-119924-37	SW-15-1.5"	Total Recoverable	Water	EPA 6020B	354657
180-119924-38	SW-15-1.5" FF	Dissolved	Water	EPA 6020B	354657
180-119924-39	SW-16-1.5"	Total Recoverable	Water	EPA 6020B	354657
180-119924-40	SW-16-1.5" FF	Dissolved	Water	EPA 6020B	354657
180-119924-41	SW-17-1'	Total Recoverable	Water	EPA 6020B	354657
180-119924-42	SW-17-1' FF	Dissolved	Water	EPA 6020B	354657
180-119924-43	DUP-010	Total Recoverable	Water	EPA 6020B	354657
180-119924-44	DUP-01-FF	Dissolved	Water	EPA 6020B	354657
180-119924-45	DUP-02	Total Recoverable	Water	EPA 6020B	354657
180-119924-46	DUP-02-FF	Dissolved	Water	EPA 6020B	354657
180-119924-47	DUP-03	Total Recoverable	Water	EPA 6020B	354657
180-119924-48	DUP-03-FF	Dissolved	Water	EPA 6020B	354657
180-119924-49	EB-01	Total Recoverable	Water	EPA 6020B	354657
180-119924-50	EB-02	Total Recoverable	Water	EPA 6020B	354657
MB 180-354657/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	354657
LCS 180-354657/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	354657
180-119924-43 MS	DUP-010	Total Recoverable	Water	EPA 6020B	354657
180-119924-43 MSD	DUP-010	Total Recoverable	Water	EPA 6020B	354657

Analysis Batch: 355148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-1	SW-1-1'	Total Recoverable	Water	EPA 6020B	354079
180-119924-2	SW-1-1' FF	Dissolved	Water	EPA 6020B	354079
180-119924-3	SW-1-7'	Total Recoverable	Water	EPA 6020B	354079
180-119924-4	SW-1-7' FF	Dissolved	Water	EPA 6020B	354079
180-119924-5	SW-2-1'	Total Recoverable	Water	EPA 6020B	354079
180-119924-6	SW-2-1' FF	Dissolved	Water	EPA 6020B	354079
180-119924-7	SW-2-7'	Total Recoverable	Water	EPA 6020B	354079
180-119924-8	SW-2-7' FF	Dissolved	Water	EPA 6020B	354079

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

Metals (Continued)

Analysis Batch: 355148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-9	SW-3-1'	Total Recoverable	Water	EPA 6020B	354079
180-119924-10	SW-3-1' FF	Dissolved	Water	EPA 6020B	354079
180-119924-11	SW-3-4'	Total Recoverable	Water	EPA 6020B	354079
180-119924-12	SW-3-4' FF	Dissolved	Water	EPA 6020B	354079
MB 180-354079/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	354079
LCS 180-354079/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	354079

General Chemistry

Analysis Batch: 353275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-1	SW-1-1'	Total/NA	Water	SM 2540C	
180-119924-3	SW-1-7'	Total/NA	Water	SM 2540C	
180-119924-5	SW-2-1'	Total/NA	Water	SM 2540C	
180-119924-7	SW-2-7'	Total/NA	Water	SM 2540C	
180-119924-9	SW-3-1'	Total/NA	Water	SM 2540C	
180-119924-11	SW-3-4'	Total/NA	Water	SM 2540C	
180-119924-13	SW-4-1.5"	Total/NA	Water	SM 2540C	
180-119924-15	SW-5-1'	Total/NA	Water	SM 2540C	
180-119924-17	SW-5-13'	Total/NA	Water	SM 2540C	
180-119924-19	SW-6-1'	Total/NA	Water	SM 2540C	
180-119924-21	SW-6-9.5"	Total/NA	Water	SM 2540C	
MB 180-353275/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-353275/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-119924-5 DU	SW-2-1'	Total/NA	Water	SM 2540C	

Analysis Batch: 353452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-2	SW-1-1' FF	Dissolved	Water	SM 2540C	
180-119924-4	SW-1-7' FF	Dissolved	Water	SM 2540C	
180-119924-6	SW-2-1' FF	Dissolved	Water	SM 2540C	
180-119924-8	SW-2-7' FF	Dissolved	Water	SM 2540C	
180-119924-10	SW-3-1' FF	Dissolved	Water	SM 2540C	
180-119924-12	SW-3-4' FF	Dissolved	Water	SM 2540C	
180-119924-14	SW-4-1.5" FF	Dissolved	Water	SM 2540C	
180-119924-16	SW-5-1' FF	Dissolved	Water	SM 2540C	
180-119924-18	SW-5-13' FF	Dissolved	Water	SM 2540C	
180-119924-20	SW-6-1' FF	Dissolved	Water	SM 2540C	
180-119924-22	SW-6-9.5" FF	Dissolved	Water	SM 2540C	
180-119924-23	SW-9-1'	Total/NA	Water	SM 2540C	
180-119924-24	SW-9-1' FF	Dissolved	Water	SM 2540C	
180-119924-25	SW-9-4'	Total/NA	Water	SM 2540C	
180-119924-26	SW-9-4' FF	Dissolved	Water	SM 2540C	
180-119924-27	SW-10-2'	Total/NA	Water	SM 2540C	
180-119924-28	SW-10-2' FF	Dissolved	Water	SM 2540C	
180-119924-29	SW-11-1'	Total/NA	Water	SM 2540C	
180-119924-30	SW-11-1' FF	Dissolved	Water	SM 2540C	
180-119924-31	SW-12-1'	Total/NA	Water	SM 2540C	
MB 180-353452/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-353452/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-119924-2 DU	SW-1-1' FF	Dissolved	Water	SM 2540C	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

General Chemistry (Continued)

Analysis Batch: 353452 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-22 DU	SW-6-9.5" FF	Dissolved	Water	SM 2540C	

Analysis Batch: 353453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-32	SW-12-1' FF	Dissolved	Water	SM 2540C	
180-119924-33	SW-13-1'	Total/NA	Water	SM 2540C	
180-119924-34	SW-13-1' FF	Dissolved	Water	SM 2540C	
180-119924-35	SW-14-1.5"	Total/NA	Water	SM 2540C	
180-119924-36	SW-14-1.5" FF	Dissolved	Water	SM 2540C	
180-119924-37	SW-15-1.5"	Total/NA	Water	SM 2540C	
180-119924-38	SW-15-1.5" FF	Dissolved	Water	SM 2540C	
180-119924-39	SW-16-1.5"	Total/NA	Water	SM 2540C	
180-119924-40	SW-16-1.5" FF	Dissolved	Water	SM 2540C	
180-119924-41	SW-17-1'	Total/NA	Water	SM 2540C	
180-119924-42	SW-17-1' FF	Dissolved	Water	SM 2540C	
180-119924-43	DUP-010	Total/NA	Water	SM 2540C	
180-119924-44	DUP-01-FF	Dissolved	Water	SM 2540C	
180-119924-45	DUP-02	Total/NA	Water	SM 2540C	
180-119924-46	DUP-02-FF	Dissolved	Water	SM 2540C	
180-119924-47	DUP-03	Total/NA	Water	SM 2540C	
180-119924-48	DUP-03-FF	Dissolved	Water	SM 2540C	
180-119924-49	EB-01	Total/NA	Water	SM 2540C	
180-119924-50	EB-02	Total/NA	Water	SM 2540C	
MB 180-353453/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-353453/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-119924-32 DU	SW-12-1' FF	Dissolved	Water	SM 2540C	
180-119924-42 DU	SW-17-1' FF	Dissolved	Water	SM 2540C	

Analysis Batch: 357261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-1	SW-1-1'	Total/NA	Water	SM2320 B	
180-119924-2	SW-1-1' FF	Dissolved	Water	SM2320 B	
180-119924-3	SW-1-7'	Total/NA	Water	SM2320 B	
180-119924-4	SW-1-7' FF	Dissolved	Water	SM2320 B	
180-119924-5	SW-2-1'	Total/NA	Water	SM2320 B	
180-119924-6	SW-2-1' FF	Dissolved	Water	SM2320 B	
180-119924-7	SW-2-7'	Total/NA	Water	SM2320 B	
180-119924-8	SW-2-7' FF	Dissolved	Water	SM2320 B	
180-119924-9	SW-3-1'	Total/NA	Water	SM2320 B	
180-119924-10	SW-3-1' FF	Dissolved	Water	SM2320 B	
180-119924-11	SW-3-4'	Total/NA	Water	SM2320 B	
180-119924-12	SW-3-4' FF	Dissolved	Water	SM2320 B	
180-119924-13	SW-4-1.5"	Total/NA	Water	SM2320 B	
180-119924-14	SW-4-1.5" FF	Dissolved	Water	SM2320 B	
180-119924-15	SW-5-1'	Total/NA	Water	SM2320 B	
180-119924-16	SW-5-1' FF	Dissolved	Water	SM2320 B	
180-119924-17	SW-5-13'	Total/NA	Water	SM2320 B	
180-119924-18	SW-5-13' FF	Dissolved	Water	SM2320 B	
180-119924-19	SW-6-1'	Total/NA	Water	SM2320 B	
180-119924-20	SW-6-1' FF	Dissolved	Water	SM2320 B	
180-119924-21	SW-6-9.5"	Total/NA	Water	SM2320 B	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

General Chemistry (Continued)

Analysis Batch: 357261 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-22	SW-6-9.5" FF	Dissolved	Water	SM2320 B	
180-119924-23	SW-9-1'	Total/NA	Water	SM2320 B	
180-119924-24	SW-9-1' FF	Dissolved	Water	SM2320 B	
180-119924-25	SW-9-4'	Total/NA	Water	SM2320 B	
180-119924-26	SW-9-4' FF	Dissolved	Water	SM2320 B	
180-119924-27	SW-10-2'	Total/NA	Water	SM2320 B	
180-119924-28	SW-10-2' FF	Dissolved	Water	SM2320 B	
180-119924-29	SW-11-1'	Total/NA	Water	SM2320 B	
180-119924-30	SW-11-1' FF	Dissolved	Water	SM2320 B	
180-119924-31	SW-12-1'	Total/NA	Water	SM2320 B	
180-119924-32	SW-12-1' FF	Dissolved	Water	SM2320 B	
180-119924-33	SW-13-1'	Total/NA	Water	SM2320 B	
180-119924-34	SW-13-1' FF	Dissolved	Water	SM2320 B	
180-119924-35	SW-14-1.5"	Total/NA	Water	SM2320 B	
180-119924-36	SW-14-1.5" FF	Dissolved	Water	SM2320 B	
180-119924-37	SW-15-1.5"	Total/NA	Water	SM2320 B	
180-119924-38	SW-15-1.5" FF	Dissolved	Water	SM2320 B	
180-119924-39	SW-16-1.5"	Total/NA	Water	SM2320 B	
180-119924-40	SW-16-1.5" FF	Dissolved	Water	SM2320 B	
180-119924-41	SW-17-1'	Total/NA	Water	SM2320 B	
180-119924-42	SW-17-1' FF	Dissolved	Water	SM2320 B	
180-119924-43	DUP-010	Total/NA	Water	SM2320 B	
180-119924-44	DUP-01-FF	Dissolved	Water	SM2320 B	
180-119924-45	DUP-02	Total/NA	Water	SM2320 B	
MB 180-357261/102	Method Blank	Total/NA	Water	SM2320 B	
MB 180-357261/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-357261/54	Method Blank	Total/NA	Water	SM2320 B	
MB 180-357261/6	Method Blank	Total/NA	Water	SM2320 B	
MB 180-357261/78	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-357261/101	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-357261/29	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-357261/53	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-357261/77	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-357261/100	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-357261/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-357261/52	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-357261/76	Lab Control Sample	Total/NA	Water	SM2320 B	
180-119924-1 DU	SW-1-1'	Total/NA	Water	SM2320 B	
180-119924-10 DU	SW-3-1' FF	Dissolved	Water	SM2320 B	
180-119924-16 DU	SW-5-1' FF	Dissolved	Water	SM2320 B	
180-119924-25 DU	SW-9-4'	Total/NA	Water	SM2320 B	
180-119924-31 DU	SW-12-1'	Total/NA	Water	SM2320 B	
180-119924-40 DU	SW-16-1.5" FF	Dissolved	Water	SM2320 B	

Analysis Batch: 357758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-46	DUP-02-FF	Dissolved	Water	SM2320 B	
180-119924-47	DUP-03	Total/NA	Water	SM2320 B	
180-119924-48	DUP-03-FF	Dissolved	Water	SM2320 B	
MB 180-357758/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-357758/5	Lab Control Sample	Total/NA	Water	SM2320 B	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-1

General Chemistry (Continued)

Analysis Batch: 357758 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 180-357758/4	Lab Control Sample	Total/NA	Water	SM2320 B	
180-119924-46 DU	DUP-02-FF	Dissolved	Water	SM2320 B	

Analysis Batch: 358706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-49	EB-01	Total/NA	Water	SM2320 B	
180-119924-50	EB-02	Total/NA	Water	SM2320 B	
MB 180-358706/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-358706/5	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-358706/4	Lab Control Sample	Total/NA	Water	SM2320 B	

Chain of Custody Record

Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283(Tel) Email: laparker@southernco.com Project #: 18020186 Plant: Watson Surfacewater Site:		Sampler: <i>Michelle Reynolds</i> Lab PM: Brown, Shali Phone: 850-336-0192 E-Mail: Shali.Brown@Eurolinset.com PWSID:		Carrier Tracking No(s): State of Origin:		COC No: 180-69130-13601.2 Page: 1 of 5 Job #:	
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: SCS10382606 WO #:		Analysis Requested 9315 - RAZZ6, 9320 - RAZZ8 300 - ORFM, 28D - Chloride Fluoride Sulfate (Field Filter) 2320B - Alk, Total, Bicarb, Carb (Field Filter) 6020B - Custom 14 (App III & IV) + Hg Field Filter 2540C - Calcd - TDS (Field Filter)		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		Total Number of Containers	
Sample Identification SW-1-1' SW-1-1'-FF SW-1-7' SW-1-7'-FF SW-2-1' SW-2-1'-FF SW-2-7'-FF SW-3-1' SW-3-1'-FF SW-3-4'		Sample Date 4-12-21 1835 1835 1900 1915 1930 1940 1950 2000 1150 1155 1210		Sample Time 6 SW		Sample Type (C=Comp, G=grab) G SW	
Matrix (W=water, S=solid, O=wastewater, BT=Tissue, AA=Air)		Preservation Code: SW		Field Filtered Sample (Yes or No)		Matrix (W=water, S=solid, O=wastewater, BT=Tissue, AA=Air)	
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/Note: 180-119924 Chain of Custody	
Empty Kit Relinquished by:		Date:		Method of Shipment:		Special Instructions/QC Requirements:	
Relinquished by: <i>[Signature]</i>		Date/Time: 4-13-21 1411		Relinquished by: <i>[Signature]</i>		Date/Time: 4/14/21 900	
Relinquished by:		Date/Time:		Relinquished by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Company: <i>[Signature]</i>	



Chain of Custody Record

Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283(Tel) Email: lparker@southernco.com Project Name: Plant Watson Surfacewater Site:		Sampler: <i>Ric Alexander</i> Lab P#: <i>Ervin's Brack</i> State of Origin: <i>GA</i> E-Mail: <i>Shali.Brown@Eurofins.com</i> PWSID:		Carrier Tracking No(s): State of Origin:		COC No: 180-69130-13801.3 Page 7 of 8 Job #:										
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: SCS10382606 WO #: Project #: 18020186 SSON#:		Field Filtered Sample (Yes or No) 9315_Ra226_9320_Ra228 300_ORGM_28D - Chloride Fluoride Sulfate (Field Filtere 220B - Alk, Total, Bicar, Carb (Field Filtered 6020B - Custom 14 (App III & IV+Hg Field Filter 2540C_Calcd - TDS (Field Filtered) 9315_Ra226_9320_Ra228 300_ORGM_28D - Chloride Fluoride Sulfate Sulfate 2320B - Alk, Total, Bicar, Carb 6020B - Custom 14 (App III & IV+Hg)		Total Number of Containers 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 - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)										
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Gas, Other)	Field Filtered Sample (Yes or No)	9315_Ra226_9320_Ra228	300_ORGM_28D - Chloride Fluoride Sulfate (Field Filtere	220B - Alk, Total, Bicar, Carb (Field Filtered	6020B - Custom 14 (App III & IV+Hg Field Filter	2540C_Calcd - TDS (Field Filtered)	9315_Ra226_9320_Ra228	300_ORGM_28D - Chloride Fluoride Sulfate	2320B - Alk, Total, Bicar, Carb	6020B - Custom 14 (App III & IV+Hg)	Total Number of Containers	Special Instructions/Note:
SW-13-1'-FF	4-12-21	1430	G	SW		X	X	X	X	X	X	X	X	X		
SW-14-1.5"		1455				X	X	X	X	X	X	X	X	X		
SW-14-1.5"-FF		1505				X	X	X	X	X	X	X	X	X		
SW-15-1.5"		1535				X	X	X	X	X	X	X	X	X		
SW-15-1.5"-FF		1545				X	X	X	X	X	X	X	X	X		
SW-16-1.5"		1610				X	X	X	X	X	X	X	X	X		
SW-16-1.5"-FF		1620				X	X	X	X	X	X	X	X	X		
SW-17-1'		1250				X	X	X	X	X	X	X	X	X		
SW-17-1'-FF		1300				X	X	X	X	X	X	X	X	X		
DUP-01		1140				X	X	X	X	X	X	X	X	X		
DUP-01-FF		1155				X	X	X	X	X	X	X	X	X		
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>Kay</i> Date: 4/13/21 1411 Relinquished by: <i>Kay</i> Date: 4/13/21 1411 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:																
Method of Shipment:																
Received by: <i>Kay</i> Date: 4/14/21 900 Received by: <i>Kay</i> Date: 4/14/21 900 Received by:																
Cooler Temperature(s) °C and Other Remarks:																



Chain of Custody Record

Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283(Tel) Email: leparker@southernco.com Project Name: Plant Watson Surfacewater Site:		Sampler: <i>Lee Alexander</i> Lab PM: <i>Shali Brown</i> Phone: <i>850-336-0172</i> E-Mail: <i>Shali.Brown@Eurofins.com</i> PWSID:		Carrier Tracking No(s): State of Origin:		COC No: 180-69130-13601.3 Page: 5 of 5 Job #:			
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: SCS10382606 WO #: Project #: 18020186 SSOW#:		Analysis Requested 9315_Ra226_9320_Ra228 300_ORGFM_28D - Chloride Fluoride Sulfate (Field Filtered) 23203 - Alk, Total, Bicarb, Carb (Field Filtered) 60208 - Custom 14 (App III & IV)+Hg Field Filter 2540C_Calcd - TDS (Field Filtered)							
Sample Identification DWP-02 DWP-02 - FF DWP-03 DWP-03 - FF EB-01 EB-02		Sample Date 4-12-21 1615 1625 1725 1735 1830 1930		Sample Time 1615 1625 1725 1735 1830 1930		Sample Type (C=Comp, G=Grab) G G G G G G		Matrix (Water, Soil, Other) SW SW SW SW SW SW	
Field Filtered Sample (Yes or No) D N N N N N N		Field Filtered Sample (Yes or No) D N N N N N N		Total Number of Containers X X X X X X X		Special Instructions/Note: 9315_Ra226_9320_Ra228 300_ORGFM_28D - Chloride Fluoride Sulfate 23203 - Alk, Total, Bicarb, Carb 60208 - Custom 14 (App III & IV)+Hg 2540C_Calcd - TDS 60208 - Custom 14 (App III & IV)+Hg 2540C_Calcd - TDS		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 - Na2SO4 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)	
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> Date: 4-13-21 1411 Company: Southern Company		Relinquished by: <i>[Signature]</i> Date: 4/14/21 900 Company: EPA P/A							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:									

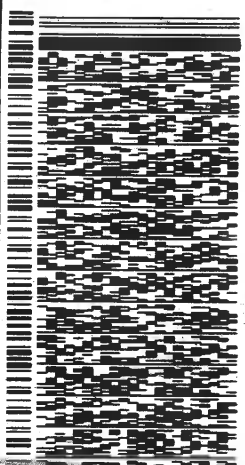


SHIP DATE: 13APR21
ACTIVITY: 55
CNO: 699219755F02201
DIMS: 25X14X14 IN

SA (850) 572-1067
PITTSBURGH LAB
BEFORE BILL
PA 15238
US

MERICA PITTSBURGH LAB
CHEERS 5 BEFORE BILL
PHALPHA DR
BURGH PA 15238

DEPT.
REF.1



7 of 14
59 4219 4360
859 4219 4304
WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS 15238
PA-US PIT

AGCA

Uncorrected temp
Thermometer ID
CF 0 Initials
PT-WI-SR-001 effective 11/8/18

RT 97
1 10:30
A 4360
04.14

ORIGIN ID:PNSA (850) 572-1067
TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238
UNITED STATES US

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238
(850) 572-1067
US

DEPT.
REF.1



10 of 14
MPS# 7859 4219 4392
Metri# 7859 4219 4304
WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS 15238
PA-US PIT

XH AGCA

Uncorrected temp
Thermometer ID
CF 0 Initials
PT-WI-SR-001 effective 11/8/18



180-119924 Waybill

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Do Not Lift Using This Tag

10:30
A 4304
04.14

RT 97
EZ

Part # 13220733 MADE IN USA 11/21

ORIGIN ID: PNSH (850) 572-1067
SHIP DATE: 19APR21
ACTWT: 60.20 LB
DIM: 6992215/SF02201
DIMS: 25x14x14 IN
BILL THIRD PARTY
TESTAMERICA PITTSBURGH LAB
SEE CHECKS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

TESTAMERICA PITTSBURGH LAB
SEE CHECKS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238

Page 11 of 115

FedEx Express
E
REF: (850) 572-1067
DEPT: 11/21

1 of 14
TRK# 7859 4219 4304
0263
##MASTER ##
XH AGCA
Uncorrected temp
Thermometer ID
PA-US
15238
PIT

CF 0 Initials
Thermometer ID
PT-WI-SR-001 effective 11/8/18

WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS
15238
PIT

PITTSBURGH PA 15238
REF: (850) 572-1067
DEPT: 11/21
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FedEx Express
MPS# 7859 4219 4337
0263
Mstr# 7859 4219 4304
4 of 14
XH AGCA
Uncorrected temp
Thermometer ID
CF 0 Initials
PT-WI-SR-001 effective 11/8/18
WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS
15238
PIT

PITTSBURGH PA 15238
REF: (850) 572-1067
DEPT: 11/21
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FedEx Express
MPS# 7859 4219 4315
0263
Mstr# 7859 4219 4304
2 of 14
XH AGCA
Uncorrected temp
Thermometer ID
CF 0 Initials
PT-WI-SR-001 effective 11/8/18
WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS
15238
PIT

WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS
15238
PIT

CF 0 Initials
Thermometer ID
PT-WI-SR-001 effective 11/8/18

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Do Not Lift Using This Tag

Part # 156297455-88888

ORIGIN ID:PNBA (850) 572-1067

TESTAMERICA PITTSBURGH LAB
SEE CHECKS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 19APR21
ACT WT: 55 LB
CAD: 592215755C02201
DIMS: 25x14x14 IN
BILL THIRD PARTY

TO

TESTAMERICA PITTSBURGH LAB
SEE CHECKS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238

(850) 572-1067
INV#
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REF1

DEPT1



FedEx
Express



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WED - 14 APR 10:30A
PRIORITY OVERNIGHT

6 of 14
MPS# 7859 4219 4359
0263

Mstr# 7859 4219 4304

XH AGCA

0201

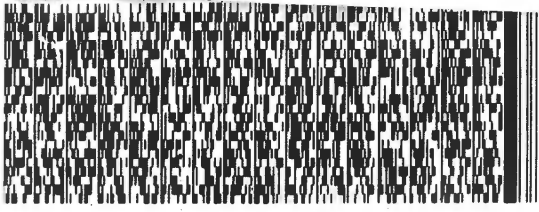
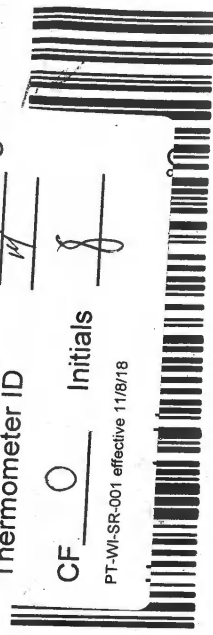
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PIT

Uncorrected temp
Thermometer ID

CF 0 Initials

PT-WI-SR-001 effective 11/8/18

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FedEx
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14 of 14

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str# 7859 4219 4304

0201

WED - 14 APR 10:30A
PRIORITY OVERNIGHT

AHS
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PA-US
PIT

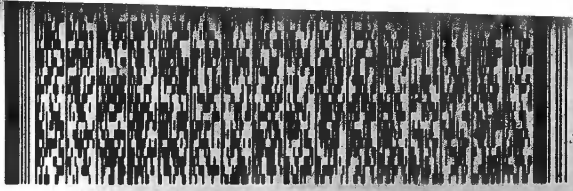
XH AGCA

Uncorrected temp
Thermometer ID

CF 0 Initials

PT-WI-SR-001 effective 11/8/18

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J211321033101W

12 of 14

MPS# 7859 4219 4418

Mstr# 7859 4219 4304

0201

WED - 14 APR 10:30A
PRIORITY OVERNIGHT

AHS
15238

PA-US
PIT

XH AGCA

Uncorrected temp
Thermometer ID

CF 0 Initials

PT-WI-SR-001 effective 11/8/18

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Do Not Lift Using This Tag

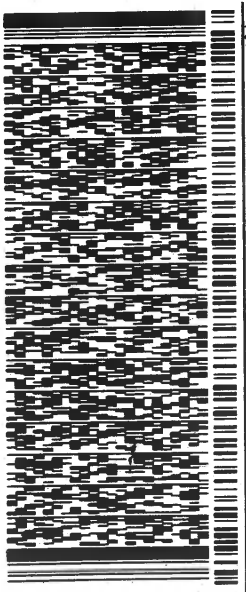
6/15/2021

ORIGIN ID:PN5A (850) 572-1087
SHIP DATE: 19APR21
ACTWT: 67.40 LB
TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
CAD: 6992215/58F02201
301 ALPHA DR
PITTSBURGH, PA 15238
DIM3: 25x14x14 IN
BILL THIRD PARTY
UNITED STATES US

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238

(850) 572-1087
REF1

DEPT1



Page 110 of 127

8 of 14
MPS# 7859 4219 4370
Met# 7859 4219 4304
WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS 15238
PIT

XH AGCA

Uncorrected temp
Thermometer ID

CF 0 Initials [Signature]

PT-WI-SR-001 effective 11/8/18



97
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10:30
4370
04.14
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PT-WI-SR-001 effective 11/8/18

Uncorrected temp
Thermometer ID

CF 0 Initials [Signature]

5 of 14
MPS# 7859 4219 4348
Met# 7859 4219 4304
WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS 15238
PIT

XH AGCA

WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS 15238
PIT

97
1
10:30
4348
04.14
A

97
1
10:30
440
04.14
A

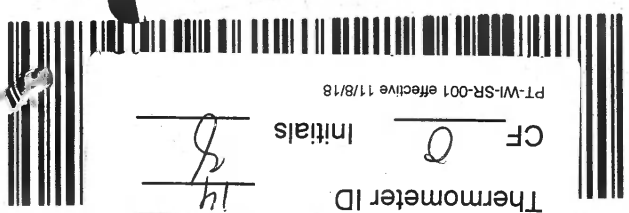
11 of 14
MPS# 7859 4219 4407
Met# 7859 4219 4304
WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS 15238
PIT

XH AGCA

Uncorrected temp
Thermometer ID

CF 0 Initials [Signature]

PT-WI-SR-001 effective 11/8/18



PA-US
15238
PIT



4211321038701

Do Not Lift Using This Tag

ORIGIN ID:PNSA (850) 572-1067

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 13APR21
ACTWGT: 62.00 LB
CAD: 6992215/96F02201
DIMS: 25x14x14 IN

BILL THIRD PARTY

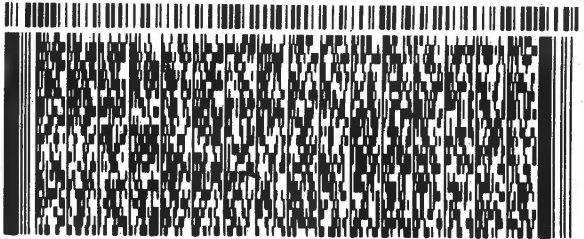
TO

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238

(850) 572-1067

REF:

DEPT:



FedEx Express



AR 010500102610101

Part # 1520103310101

3 of 14

MPS# 7859 4219 4326
0263

Mstr# 7859 4219 4304

0201

WED - 14 APR 10:30A
PRIORITY OVERNIGHT

AHS
15238
PIT

PA-US

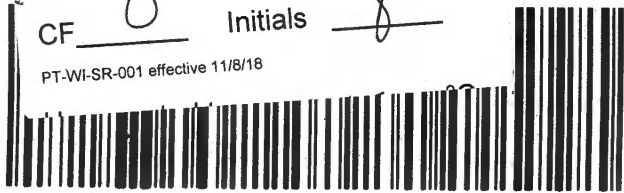
XH AGCA

Uncorrected temp
Thermometer ID

37 °C
17

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18

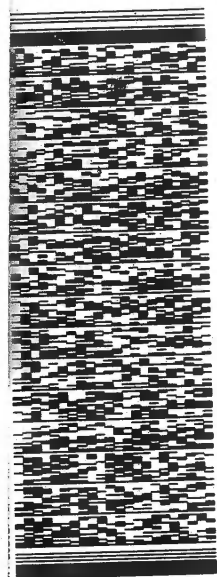


97

1
10:30

A
4326
04.14

FedEx Express



WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS
15238
PIT

13 of 14

MPS# 7859 4219 4429
0263

Mstr# 7859 4219 4304

0201

XH AGCA

Uncorrected temp
Thermometer ID

37 °C
17

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18



FedEx Express

WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS
15238
PIT

WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS
15238
PIT

9 of 14

MPS# 7859 4219 4361
0263

Mstr# 7859 4219 4304

0201

XH AGCA

Uncorrected temp
Thermometer ID

37 °C
17

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18



- 1
- 2
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- 11
- 12
- 13

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-119924-1

Login Number: 119924

List Number: 1

Creator: Abernathy, Eric

List Source: Eurofins TestAmerica, Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-119924-2

Client Project/Site: Plant Watson Surfacewater

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
5/26/2021 5:32:12 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Job ID: 180-119924-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-119924-2

Comments

No additional comments.

Receipt

The samples were received on 4/14/2021 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 14 coolers at receipt time were 2.3° C, 2.4° C, 2.6° C, 2.6° C, 2.7° C, 2.8° C, 2.9° C, 3.4° C, 3.6° C, 3.6° C, 3.7° C, 3.7° C, 3.7° C and 3.8° C.

RAD

Methods 903.0, 9315: Radium-226 Batch 506615

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-1-1' (180-119924-1), (LCS 160-506615/1-A), (LCSD 160-506615/2-A) and (MB 160-506615/23-A)

Method 9315: Radium-226 Batch 506591

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-1-1' FF (180-119924-2), SW-1-7' FF (180-119924-4), SW-2-1' FF (180-119924-6), SW-2-7' FF (180-119924-8), SW-3-1' FF (180-119924-10), SW-3-4' FF (180-119924-12), SW-4-1.5" FF (180-119924-14), SW-5-1' FF (180-119924-16), SW-5-13' FF (180-119924-18), SW-6-1' FF (180-119924-20), SW-6-9.5" FF (180-119924-22), SW-9-1' FF (180-119924-24), SW-9-4' FF (180-119924-26), SW-10-2' FF (180-119924-28), SW-11-1' FF (180-119924-30), SW-12-1' FF (180-119924-32), SW-13-1' FF (180-119924-34), SW-14-1.5" FF (180-119924-36), SW-15-1.5" FF (180-119924-38), SW-16-1.5" FF (180-119924-40), (LCS 160-506591/1-A), (LCSD 160-506591/2-A) and (MB 160-506591/23-A)

Methods 903.0, 9315: Radium-226 prep batch 160-506756:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-1-7' (180-119924-3), SW-2-1' (180-119924-5), SW-2-7' (180-119924-7), SW-3-1' (180-119924-9), SW-3-4' (180-119924-11), SW-4-1.5" (180-119924-13), SW-5-1' (180-119924-15), SW-5-13' (180-119924-17), SW-6-1' (180-119924-19), SW-6-9.5" (180-119924-21), SW-9-1' (180-119924-23), SW-9-4' (180-119924-25), SW-10-2' (180-119924-27), SW-11-1' (180-119924-29), SW-12-1' (180-119924-31), SW-13-1' (180-119924-33), SW-14-1.5" (180-119924-35), SW-15-1.5" (180-119924-37) and (160-41795-D-1-A)

Methods 903.0, 9315: Radium-226 prep batch 160-506756:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-1-7' (180-119924-3), SW-2-1' (180-119924-5), SW-2-7' (180-119924-7), SW-3-1' (180-119924-9), SW-3-4' (180-119924-11), SW-4-1.5" (180-119924-13), SW-5-1' (180-119924-15), SW-5-13' (180-119924-17), SW-6-1' (180-119924-19), SW-6-9.5" (180-119924-21), SW-9-1' (180-119924-23), SW-9-4' (180-119924-25), SW-10-2' (180-119924-27), SW-11-1' (180-119924-29), SW-12-1' (180-119924-31), SW-13-1' (180-119924-33), SW-14-1.5" (180-119924-35), SW-15-1.5" (180-119924-37), (LCS 160-506756/1-A), (MB 160-506756/23-A), (160-41795-D-1-A) and (160-41795-C-1-A DU)

Methods 903.0, 9315: Radium 226 prep batch 160-506770

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SW-17-1' FF (180-119924-42), DUP-01-FF (180-119924-44), DUP-02-FF (180-119924-46), DUP-03-FF (180-119924-48), (LCS 160-506770/1-A), (LCSD 160-506770/2-A) and (MB 160-506770/23-A)

Methods 903.0, 9315: Radium-226 prep batch 160-507504:

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Job ID: 180-119924-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-16-1.5" (180-119924-39), SW-17-1' (180-119924-41), DUP-010 (180-119924-43), DUP-02 (180-119924-45), DUP-03 (180-119924-47), EB-01 (180-119924-49), EB-02 (180-119924-50), (LCS 160-506765/1-A), (LCSD 160-506765/2-A) and (MB 160-506765/23-A)

Methods 904.0, 9320: Radium-228 160-506772

The laboratory control sample and duplicate (LCS, LCSD) associated with the following samples recovered at 131% and 127% SW-17-1' FF (180-119924-42), DUP-01-FF (180-119924-44), DUP-02-FF (180-119924-46), DUP-03-FF (180-119924-48), (LCS 160-506772/1-A), (LCSD 160-506772/2-A) and (MB 160-506772/23-A). The limits in our LIMS system at 75-125% reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of 61-138 per method requirements. The LCS and LCSD is within criteria and no further action is required.

Methods 904.0, 9320: Radium-228 160-506772

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-17-1' FF (180-119924-42), DUP-01-FF (180-119924-44), DUP-02-FF (180-119924-46), DUP-03-FF (180-119924-48), (LCS 160-506772/1-A), (LCSD 160-506772/2-A) and (MB 160-506772/23-A)

Methods 904.0, 9320: Radium 228 prep batch 160-506619

The LCS recovered at (128%) for (Ra228). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (61-138) per method requirements. The LCS passes, no further action is required (LCSD 160-506619/2-A)

Methods 904.0, 9320: Radium 228 prep batch 160-506619

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-1-1' (180-119924-1), (LCS 160-506619/1-A), (LCSD 160-506619/2-A) and (MB 160-506619/23-A)

Method 9320: Radium 228 prep batch 160-506602

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-1-1' FF (180-119924-2), SW-1-7' FF (180-119924-4), SW-2-1' FF (180-119924-6), SW-2-7' FF (180-119924-8), SW-3-1' FF (180-119924-10), SW-3-4' FF (180-119924-12), SW-4-1.5" FF (180-119924-14), SW-5-1' FF (180-119924-16), SW-5-13' FF (180-119924-18), SW-6-1' FF (180-119924-20), SW-6-9.5" FF (180-119924-22), SW-9-1' FF (180-119924-24), SW-9-4' FF (180-119924-26), SW-10-2' FF (180-119924-28), SW-11-1' FF (180-119924-30), SW-12-1' FF (180-119924-32), SW-13-1' FF (180-119924-34), SW-14-1.5" FF (180-119924-36), SW-15-1.5" FF (180-119924-38), SW-16-1.5" FF (180-119924-40), (LCS 160-506602/1-A), (LCSD 160-506602/2-A) and (MB 160-506602/23-A)

Methods 904.0, 9320: Radium-228 Batch 506766

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-16-1.5" (180-119924-39), SW-17-1' (180-119924-41), DUP-010 (180-119924-43), DUP-02 (180-119924-45), DUP-03 (180-119924-47), EB-01 (180-119924-49), (LCS 160-506766/1-A), (LCSD 160-506766/2-A) and (MB 160-506766/23-A)

Methods 904.0, 9320: Radium-228 Batch 506762

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SW-1-7' (180-119924-3), SW-2-1' (180-119924-5), SW-2-7' (180-119924-7), SW-3-1' (180-119924-9), SW-3-4' (180-119924-11), SW-4-1.5" (180-119924-13), SW-5-1' (180-119924-15), SW-5-13' (180-119924-17), SW-6-1'

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Job ID: 180-119924-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

(180-119924-19), SW-6-9.5" (180-119924-21), SW-9-1' (180-119924-23), SW-9-4' (180-119924-25), SW-10-2' (180-119924-27), SW-11-1' (180-119924-29), SW-12-1' (180-119924-31), SW-13-1' (180-119924-33), SW-14-1.5" (180-119924-35), SW-15-1.5" (180-119924-37), (LCS 160-506762/1-A), (MB 160-506762/23-A), (160-41795-D-1-B) and (160-41795-C-1-B DU)

Methods 904.0, 9320: Radium 228 Prep Batch: 160-506762

The LCS recovered at (136%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (61-138) per method requirements. The LCS passes, no further action is required (LCS 160-506762/1-A)

Method 9320: Radium-228 Batch 506766

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. EB-02 (180-119924-50)

Method PrecSep_0: Radium 228 Prep batch 160-506602:

The following samples were prepared at a reduced aliquot due to Matrix: SW-1-1' FF (180-119924-2), SW-1-7' FF (180-119924-4), SW-2-1' FF (180-119924-6), SW-2-7' FF (180-119924-8), SW-3-1' FF (180-119924-10), SW-3-4' FF (180-119924-12), SW-4-1.5" FF (180-119924-14), SW-5-1' FF (180-119924-16), SW-5-13' FF (180-119924-18), SW-6-1' FF (180-119924-20), SW-6-9.5" FF (180-119924-22), SW-9-1' FF (180-119924-24), SW-9-4' FF (180-119924-26), SW-10-2' FF (180-119924-28), SW-11-1' FF (180-119924-30), SW-12-1' FF (180-119924-32), SW-13-1' FF (180-119924-34), SW-14-1.5" FF (180-119924-36), SW-15-1.5" FF (180-119924-38) and SW-16-1.5" FF (180-119924-40). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-506619:

The following samples were prepared at a reduced aliquot due to Matrix: SW-1-1' (180-119924-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-506766:

The following samples were prepared at a reduced aliquot due to Matrix: SW-16-1.5" (180-119924-39), SW-17-1' (180-119924-41), DUP-01 (180-119924-43), DUP-02 (180-119924-45) and DUP-03 (180-119924-47). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-506766:

Insufficient sample volume was available to perform a sample duplicate for the following samples: EB-01 (180-119924-49) and EB-02 (180-119924-50). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Ra-228 Prep Batch 160-506772:

The following samples were prepared at a reduced aliquot due to Matrix: SW-17-1' FF (180-119924-42), DUP-01-FF (180-119924-44), DUP-02-FF (180-119924-46) and DUP-03-FF (180-119924-48). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-506591:

The following samples were prepared at a reduced aliquot due to Matrix: SW-1-1' FF (180-119924-2), SW-1-7' FF (180-119924-4), SW-2-1' FF (180-119924-6), SW-2-7' FF (180-119924-8), SW-3-1' FF (180-119924-10), SW-3-4' FF (180-119924-12), SW-4-1.5" FF (180-119924-14), SW-5-1' FF (180-119924-16), SW-5-13' FF (180-119924-18), SW-6-1' FF (180-119924-20), SW-6-9.5" FF (180-119924-22), SW-9-1' FF (180-119924-24), SW-9-4' FF (180-119924-26), SW-10-2' FF (180-119924-28), SW-11-1' FF (180-119924-30), SW-12-1' FF (180-119924-32), SW-13-1' FF (180-119924-34), SW-14-1.5" FF (180-119924-36), SW-15-1.5" FF (180-119924-38) and SW-16-1.5" FF (180-119924-40). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-506615:

The following samples were prepared at a reduced aliquot due to Matrix: SW-1-1' (180-119924-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Job ID: 180-119924-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Method PrecSep-21: Radium 226 Prep Batch 160-506765:

The following samples were prepared at a reduced aliquot due to Matrix: SW-16-1.5" (180-119924-39), SW-17-1' (180-119924-41), DUP-010 (180-119924-43), DUP-02 (180-119924-45) and DUP-03 (180-119924-47). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-506765:

Insufficient sample volume was available to perform a sample duplicate for the following samples: EB-01 (180-119924-49) and EB-02 (180-119924-50). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Ra-226 Prep Batch 160-506770:

The following samples were prepared at a reduced aliquot due to Matrix: SW-17-1' FF (180-119924-42), DUP-01-FF (180-119924-44), DUP-02-FF (180-119924-46) and DUP-03-FF (180-119924-48). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

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

Field Service / Mobile Lab

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



Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Qualifiers

Rad

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21 *
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-21
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-21
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-21
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-21
Texas	NELAP	T104704193	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-21

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

Sample Summary

Client: Southern Company
 Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-119924-1	SW-1-1'	Water	04/12/21 18:25	04/14/21 09:00	
180-119924-2	SW-1-1' FF	Water	04/12/21 18:35	04/14/21 09:00	
180-119924-3	SW-1-7'	Water	04/12/21 19:00	04/14/21 09:00	
180-119924-4	SW-1-7' FF	Water	04/12/21 19:15	04/14/21 09:00	
180-119924-5	SW-2-1'	Water	04/12/21 19:30	04/14/21 09:00	
180-119924-6	SW-2-1' FF	Water	04/12/21 19:40	04/14/21 09:00	
180-119924-7	SW-2-7'	Water	04/12/21 16:50	04/14/21 09:00	
180-119924-8	SW-2-7' FF	Water	04/12/21 20:00	04/14/21 09:00	
180-119924-9	SW-3-1'	Water	04/12/21 11:50	04/14/21 09:00	
180-119924-10	SW-3-1' FF	Water	04/12/21 11:55	04/14/21 09:00	
180-119924-11	SW-3-4'	Water	04/12/21 12:10	04/14/21 09:00	
180-119924-12	SW-3-4' FF	Water	04/12/21 12:20	04/14/21 09:00	
180-119924-13	SW-4-1.5"	Water	04/12/21 12:50	04/14/21 09:00	
180-119924-14	SW-4-1.5" FF	Water	04/12/21 13:00	04/14/21 09:00	
180-119924-15	SW-5-1'	Water	04/12/21 14:15	04/14/21 09:00	
180-119924-16	SW-5-1' FF	Water	04/12/21 14:25	04/14/21 09:00	
180-119924-17	SW-5-13'	Water	04/12/21 14:40	04/14/21 09:00	
180-119924-18	SW-5-13' FF	Water	04/12/21 14:55	04/14/21 09:00	
180-119924-19	SW-6-1'	Water	04/12/21 12:40	04/14/21 09:00	
180-119924-20	SW-6-1' FF	Water	04/12/21 12:55	04/14/21 09:00	
180-119924-21	SW-6-9.5"	Water	04/12/21 13:15	04/14/21 09:00	
180-119924-22	SW-6-9.5" FF	Water	04/12/21 13:25	04/14/21 09:00	
180-119924-23	SW-9-1'	Water	04/12/21 15:25	04/14/21 09:00	
180-119924-24	SW-9-1' FF	Water	04/12/21 15:35	04/14/21 09:00	
180-119924-25	SW-9-4'	Water	04/12/21 15:55	04/14/21 09:00	
180-119924-26	SW-9-4' FF	Water	04/12/21 16:05	04/14/21 09:00	
180-119924-27	SW-10-2'	Water	04/12/21 16:35	04/14/21 09:00	
180-119924-28	SW-10-2' FF	Water	04/12/21 16:45	04/14/21 09:00	
180-119924-29	SW-11-1'	Water	04/12/21 17:15	04/14/21 09:00	
180-119924-30	SW-11-1' FF	Water	04/12/21 17:25	04/14/21 09:00	
180-119924-31	SW-12-1'	Water	04/12/21 18:10	04/14/21 09:00	
180-119924-32	SW-12-1' FF	Water	04/12/21 18:20	04/14/21 09:00	
180-119924-33	SW-13-1'	Water	04/12/21 14:20	04/14/21 09:00	
180-119924-34	SW-13-1' FF	Water	04/12/21 14:30	04/14/21 09:00	
180-119924-35	SW-14-1.5"	Water	04/12/21 14:55	04/14/21 09:00	
180-119924-36	SW-14-1.5" FF	Water	04/12/21 15:05	04/14/21 09:00	
180-119924-37	SW-15-1.5"	Water	04/12/21 15:35	04/14/21 09:00	
180-119924-38	SW-15-1.5" FF	Water	04/12/21 15:45	04/14/21 09:00	
180-119924-39	SW-16-1.5"	Water	04/12/21 16:10	04/14/21 09:00	
180-119924-40	SW-16-1.5" FF	Water	04/12/21 16:20	04/14/21 09:00	
180-119924-41	SW-17-1'	Water	04/12/21 12:50	04/14/21 09:00	
180-119924-42	SW-17-1' FF	Water	04/12/21 13:00	04/14/21 09:00	
180-119924-43	DUP-010	Water	04/12/21 11:40	04/14/21 09:00	
180-119924-44	DUP-01-FF	Water	04/12/21 11:55	04/14/21 09:00	
180-119924-45	DUP-02	Water	04/12/21 16:15	04/14/21 09:00	
180-119924-46	DUP-02-FF	Water	04/12/21 16:25	04/14/21 09:00	
180-119924-47	DUP-03	Water	04/12/21 17:25	04/14/21 09:00	
180-119924-48	DUP-03-FF	Water	04/12/21 17:35	04/14/21 09:00	
180-119924-49	EB-01	Water	04/12/21 10:30	04/14/21 09:00	
180-119924-50	EB-02	Water	04/12/21 19:30	04/14/21 09:00	



Method Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

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
Ra226_Ra228 (D)	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-1-1'
Date Collected: 04/12/21 18:25
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.8 mL	1.0 g	506615	04/22/21 18:34	RMW	TAL SL
Total/NA	Analysis	9315		1			509878	05/14/21 22:27	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.8 mL	1.0 g	506619	04/22/21 19:47	RMW	TAL SL
Total/NA	Analysis	9320		1			508981	05/10/21 13:18	AK	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			510105	05/17/21 12:24	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-1' FF
Date Collected: 04/12/21 18:35
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.3 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509878	05/14/21 22:29	ANW	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			750.3 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508968	05/10/21 13:05	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-7'
Date Collected: 04/12/21 19:00
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.1 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510107	05/17/21 12:34	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.1 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509146	05/11/21 13:12	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-7' FF
Date Collected: 04/12/21 19:15
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.0 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509878	05/14/21 22:29	ANW	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-1-7' FF

Lab Sample ID: 180-119924-4

Date Collected: 04/12/21 19:15

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			750.0 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508968	05/10/21 13:05	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-1'

Lab Sample ID: 180-119924-5

Date Collected: 04/12/21 19:30

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.7 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510107	05/17/21 12:34	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.7 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509146	05/11/21 13:13	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-1' FF

Lab Sample ID: 180-119924-6

Date Collected: 04/12/21 19:40

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.5 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509878	05/14/21 22:29	ANW	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			750.5 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508968	05/10/21 13:05	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-7'

Lab Sample ID: 180-119924-7

Date Collected: 04/12/21 16:50

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.4 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510107	05/17/21 12:34	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.4 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509146	05/11/21 13:13	FLC	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-2-7'
Date Collected: 04/12/21 16:50
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL

Client Sample ID: SW-2-7' FF
Date Collected: 04/12/21 20:00
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.6 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509878	05/14/21 22:29	ANW	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			750.6 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508968	05/10/21 13:05	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-1'
Date Collected: 04/12/21 11:50
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.1 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510107	05/17/21 12:34	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.1 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509146	05/11/21 13:13	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-1' FF
Date Collected: 04/12/21 11:55
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.1 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509878	05/14/21 22:30	ANW	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			750.1 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508968	05/10/21 13:06	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-3-4'
Date Collected: 04/12/21 12:10
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.5 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510107	05/17/21 12:34	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.5 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509146	05/11/21 13:13	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-4' FF
Date Collected: 04/12/21 12:20
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.7 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509878	05/14/21 22:30	ANW	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			750.7 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508968	05/10/21 13:06	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-4-1.5"
Date Collected: 04/12/21 12:50
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.4 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510107	05/17/21 12:34	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.4 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509146	05/11/21 13:13	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-4-1.5" FF
Date Collected: 04/12/21 13:00
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.3 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509878	05/14/21 22:30	ANW	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-4-1.5" FF
Date Collected: 04/12/21 13:00
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			750.3 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508968	05/10/21 13:06	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-1'
Date Collected: 04/12/21 14:15
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.3 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510107	05/17/21 12:36	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.3 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509146	05/11/21 13:13	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-1' FF
Date Collected: 04/12/21 14:25
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.4 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509542	05/14/21 22:36	AK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.4 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508982	05/10/21 13:07	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-13'
Date Collected: 04/12/21 14:40
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.1 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510107	05/17/21 12:38	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.1 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509146	05/11/21 13:13	FLC	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-5-13'

Date Collected: 04/12/21 14:40

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL

Client Sample ID: SW-5-13' FF

Date Collected: 04/12/21 14:55

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.0 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509542	05/14/21 22:36	AK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.0 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508982	05/10/21 13:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-1'

Date Collected: 04/12/21 12:40

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.8 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510284	05/17/21 12:40	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.8 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509146	05/11/21 13:13	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-1' FF

Date Collected: 04/12/21 12:55

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.5 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509542	05/14/21 22:36	AK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.5 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508982	05/10/21 13:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-6-9.5"

Lab Sample ID: 180-119924-21

Date Collected: 04/12/21 13:15

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.3 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510284	05/17/21 12:39	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.3 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509249	05/11/21 13:16	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-9.5" FF

Lab Sample ID: 180-119924-22

Date Collected: 04/12/21 13:25

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.3 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509542	05/14/21 22:37	AK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.3 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508982	05/10/21 13:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-1'

Lab Sample ID: 180-119924-23

Date Collected: 04/12/21 15:25

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.2 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510284	05/17/21 12:40	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.2 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509249	05/11/21 13:17	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-1' FF

Lab Sample ID: 180-119924-24

Date Collected: 04/12/21 15:35

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.6 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509542	05/14/21 22:37	AK	TAL SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-9-1' FF
Date Collected: 04/12/21 15:35
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			750.6 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508982	05/10/21 13:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-4'
Date Collected: 04/12/21 15:55
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.0 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510284	05/17/21 12:40	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.0 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509249	05/11/21 13:17	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-4' FF
Date Collected: 04/12/21 16:05
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.4 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509542	05/14/21 22:37	AK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.4 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508982	05/10/21 13:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-10-2'
Date Collected: 04/12/21 16:35
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.2 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510284	05/17/21 12:41	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.2 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509249	05/11/21 13:17	ANW	TAL SL
Instrument ID: GFPCORANGE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-10-2'

Date Collected: 04/12/21 16:35

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL

Client Sample ID: SW-10-2' FF

Date Collected: 04/12/21 16:45

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.0 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509542	05/14/21 22:37	AK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.0 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508982	05/10/21 13:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-11-1'

Date Collected: 04/12/21 17:15

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.5 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510284	05/17/21 12:41	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.5 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509249	05/11/21 13:17	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-11-1' FF

Date Collected: 04/12/21 17:25

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.2 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509542	05/14/21 22:38	AK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.2 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508982	05/10/21 13:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-12-1'

Lab Sample ID: 180-119924-31

Date Collected: 04/12/21 18:10

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.3 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510284	05/17/21 12:41	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.3 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509249	05/11/21 13:17	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-12-1' FF

Lab Sample ID: 180-119924-32

Date Collected: 04/12/21 18:20

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.3 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509542	05/14/21 22:38	AK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.3 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508982	05/10/21 13:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-13-1'

Lab Sample ID: 180-119924-33

Date Collected: 04/12/21 14:20

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.1 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510268	05/18/21 06:59	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.1 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509249	05/11/21 13:17	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-13-1' FF

Lab Sample ID: 180-119924-34

Date Collected: 04/12/21 14:30

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.7 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509542	05/14/21 22:38	AK	TAL SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-13-1' FF

Date Collected: 04/12/21 14:30

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			750.7 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508982	05/10/21 13:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-14-1.5"

Date Collected: 04/12/21 14:55

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.2 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1			510268	05/18/21 06:59	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.2 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509249	05/11/21 13:17	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-14-1.5" FF

Date Collected: 04/12/21 15:05

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-36

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.7 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509542	05/14/21 22:38	AK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.7 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508982	05/10/21 13:08	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-15-1.5"

Date Collected: 04/12/21 15:35

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-37

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.2 mL	1.0 g	506756	04/23/21 14:06	RMW	TAL SL
Total/NA	Analysis	9315		1	1.0 mL	1.0 mL	510268	05/18/21 06:59	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.2 mL	1.0 g	506762	04/23/21 15:29	RMW	TAL SL
Total/NA	Analysis	9320		1			509249	05/11/21 13:18	ANW	TAL SL
Instrument ID: GFPCORANGE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-15-1.5"

Lab Sample ID: 180-119924-37

Date Collected: 04/12/21 15:35

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			510306	05/18/21 14:41	SCB	TAL SL

Client Sample ID: SW-15-1.5" FF

Lab Sample ID: 180-119924-38

Date Collected: 04/12/21 15:45

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.1 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509542	05/14/21 22:38	AK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.1 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508982	05/10/21 13:09	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-16-1.5"

Lab Sample ID: 180-119924-39

Date Collected: 04/12/21 16:10

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.25 mL	1.0 g	506765	04/23/21 15:37	RMW	TAL SL
Total/NA	Analysis	9315		1			510268	05/18/21 07:02	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.25 mL	1.0 g	506766	04/23/21 16:50	RMW	TAL SL
Total/NA	Analysis	9320		1			509146	05/11/21 17:47	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			510519	05/19/21 22:07	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-16-1.5" FF

Lab Sample ID: 180-119924-40

Date Collected: 04/12/21 16:20

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.3 mL	1.0 g	506591	04/22/21 13:36	JEC	TAL SL
Dissolved	Analysis	9315		1			509542	05/14/21 22:38	AK	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.3 mL	1.0 g	506602	04/22/21 15:21	JEC	TAL SL
Dissolved	Analysis	9320		1			508982	05/10/21 13:09	FLC	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510502	05/19/21 15:56	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-17-1'

Lab Sample ID: 180-119924-41

Date Collected: 04/12/21 12:50

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.96 mL	1.0 g	506765	04/23/21 15:37	RMW	TAL SL
Total/NA	Analysis	9315		1			510268	05/18/21 07:02	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.96 mL	1.0 g	506766	04/23/21 16:50	RMW	TAL SL
Total/NA	Analysis	9320		1			509146	05/11/21 17:47	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			510519	05/19/21 22:07	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-17-1' FF

Lab Sample ID: 180-119924-42

Date Collected: 04/12/21 13:00

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.72 mL	1.0 g	506770	04/23/21 18:38	RMW	TAL SL
Dissolved	Analysis	9315		1			510268	05/18/21 09:07	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.72 mL	1.0 g	506772	04/23/21 20:07	RMW	TAL SL
Dissolved	Analysis	9320		1			508605	05/06/21 20:38	ANW	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510503	05/19/21 15:58	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-010

Lab Sample ID: 180-119924-43

Date Collected: 04/12/21 11:40

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.05 mL	1.0 g	506765	04/23/21 15:37	RMW	TAL SL
Total/NA	Analysis	9315		1			510268	05/18/21 07:02	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.05 mL	1.0 g	506766	04/23/21 16:50	RMW	TAL SL
Total/NA	Analysis	9320		1			509146	05/11/21 17:48	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			510519	05/19/21 22:07	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01-FF

Lab Sample ID: 180-119924-44

Date Collected: 04/12/21 11:55

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.54 mL	1.0 g	506770	04/23/21 18:38	RMW	TAL SL
Dissolved	Analysis	9315		1			510268	05/18/21 09:07	FLC	TAL SL
Instrument ID: GFPCPURPLE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: DUP-01-FF

Lab Sample ID: 180-119924-44

Date Collected: 04/12/21 11:55

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			750.54 mL	1.0 g	506772	04/23/21 20:07	RMW	TAL SL
Dissolved	Analysis	9320		1			508605	05/06/21 20:38	ANW	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510503	05/19/21 15:58	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02

Lab Sample ID: 180-119924-45

Date Collected: 04/12/21 16:15

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.08 mL	1.0 g	506765	04/23/21 15:37	RMW	TAL SL
Total/NA	Analysis	9315		1			510268	05/18/21 07:02	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.08 mL	1.0 g	506766	04/23/21 16:50	RMW	TAL SL
Total/NA	Analysis	9320		1			509145	05/11/21 17:50	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			510519	05/19/21 22:07	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02-FF

Lab Sample ID: 180-119924-46

Date Collected: 04/12/21 16:25

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.48 mL	1.0 g	506770	04/23/21 18:38	RMW	TAL SL
Dissolved	Analysis	9315		1			510268	05/18/21 09:08	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.48 mL	1.0 g	506772	04/23/21 20:07	RMW	TAL SL
Dissolved	Analysis	9320		1			508605	05/06/21 20:39	ANW	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510503	05/19/21 15:58	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03

Lab Sample ID: 180-119924-47

Date Collected: 04/12/21 17:25

Matrix: Water

Date Received: 04/14/21 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.52 mL	1.0 g	506765	04/23/21 15:37	RMW	TAL SL
Total/NA	Analysis	9315		1			510268	05/18/21 07:03	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.52 mL	1.0 g	506766	04/23/21 16:50	RMW	TAL SL
Total/NA	Analysis	9320		1			509145	05/11/21 17:50	FLC	TAL SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: DUP-03
Date Collected: 04/12/21 17:25
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-47
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			510519	05/19/21 22:07	GRW	TAL SL

Client Sample ID: DUP-03-FF
Date Collected: 04/12/21 17:35
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-48
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.09 mL	1.0 g	506770	04/23/21 18:38	RMW	TAL SL
Dissolved	Analysis	9315		1			510268	05/18/21 09:08	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.09 mL	1.0 g	506772	04/23/21 20:07	RMW	TAL SL
Dissolved	Analysis	9320		1			508605	05/06/21 20:39	ANW	TAL SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			510503	05/19/21 15:58	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-01
Date Collected: 04/12/21 10:30
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-49
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.02 mL	1.0 g	506765	04/23/21 15:37	RMW	TAL SL
Total/NA	Analysis	9315		1			510268	05/18/21 07:03	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.02 mL	1.0 g	506766	04/23/21 16:50	RMW	TAL SL
Total/NA	Analysis	9320		1			509145	05/11/21 17:50	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			510519	05/19/21 22:07	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-02
Date Collected: 04/12/21 19:30
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-50
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.09 mL	1.0 g	506765	04/23/21 15:37	RMW	TAL SL
Total/NA	Analysis	9315		1			510268	05/18/21 07:03	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.09 mL	1.0 g	506766	04/23/21 16:50	RMW	TAL SL
Total/NA	Analysis	9320		1	1.0 mL	1.0 mL	509145	05/11/21 17:50	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			510519	05/19/21 22:07	GRW	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Analyst References:

Lab: TAL SL

Batch Type: Prep

JEC = Julia Crossen

RMW = Ruth Williams

Batch Type: Analysis

AK = Amanda Kraus

ANW = Amber Woods

FLC = Fernando Cruz

GRW = George Witt

SCB = Sarah Bernsen



Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-1-1'

Lab Sample ID: 180-119924-1

Date Collected: 04/12/21 18:25

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0638	U	0.123	0.123	1.00	0.286	pCi/L	04/22/21 18:34	05/14/21 22:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.8		40 - 110					04/22/21 18:34	05/14/21 22:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.221	U	0.415	0.415	1.00	0.790	pCi/L	04/22/21 19:47	05/10/21 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.8		40 - 110					04/22/21 19:47	05/10/21 13:18	1
Y Carrier	91.6		40 - 110					04/22/21 19:47	05/10/21 13:18	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	0.433	0.433	5.00	0.790	pCi/L		05/17/21 12:24	1

Client Sample ID: SW-1-1' FF

Lab Sample ID: 180-119924-2

Date Collected: 04/12/21 18:35

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0725	U	0.132	0.132	1.00	0.232	pCi/L	04/22/21 13:36	05/14/21 22:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					04/22/21 13:36	05/14/21 22:29	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	0.140	U	0.335	0.336	1.00	0.579	pCi/L	04/22/21 15:21	05/10/21 13:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					04/22/21 15:21	05/10/21 13:05	1
Y Carrier	82.2		40 - 110					04/22/21 15:21	05/10/21 13:05	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.212	U	0.360	0.361	5.00	0.579	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-1-7'
Date Collected: 04/12/21 19:00
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-3
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	0.155	U	0.116	0.117	1.00	0.162	pCi/L	04/23/21 14:06	05/17/21 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.4		40 - 110					04/23/21 14:06	05/17/21 12:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0191	U	0.370	0.370	1.00	0.669	pCi/L	04/23/21 15:29	05/11/21 13:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.4		40 - 110					04/23/21 15:29	05/11/21 13:12	1
Y Carrier	84.9		40 - 110					04/23/21 15:29	05/11/21 13:12	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	0.136	U	0.388	0.388	5.00	0.669	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-1-7' FF
Date Collected: 04/12/21 19:15
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-4
Matrix: Water

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.126	U	0.113	0.114	1.00	0.169	pCi/L	04/22/21 13:36	05/14/21 22:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		40 - 110					04/22/21 13:36	05/14/21 22:29	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	-0.0867	U	0.329	0.329	1.00	0.608	pCi/L	04/22/21 15:21	05/10/21 13:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.0		40 - 110					04/22/21 15:21	05/10/21 13:05	1
Y Carrier	84.5		40 - 110					04/22/21 15:21	05/10/21 13:05	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0398	U	0.348	0.348	5.00	0.608	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-2-1'
Date Collected: 04/12/21 19:30
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-5
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	0.0877	U	0.112	0.113	1.00	0.187	pCi/L	04/23/21 14:06	05/17/21 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					04/23/21 14:06	05/17/21 12:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.880		0.413	0.421	1.00	0.589	pCi/L	04/23/21 15:29	05/11/21 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					04/23/21 15:29	05/11/21 13:13	1
Y Carrier	84.5		40 - 110					04/23/21 15:29	05/11/21 13:13	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	0.967		0.428	0.436	5.00	0.589	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-2-1' FF
Date Collected: 04/12/21 19:40
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-6
Matrix: Water

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0286	U	0.111	0.112	1.00	0.214	pCi/L	04/22/21 13:36	05/14/21 22:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					04/22/21 13:36	05/14/21 22:29	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	0.00718	U	0.299	0.299	1.00	0.545	pCi/L	04/22/21 15:21	05/10/21 13:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					04/22/21 15:21	05/10/21 13:05	1
Y Carrier	83.7		40 - 110					04/22/21 15:21	05/10/21 13:05	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0358	U	0.319	0.319	5.00	0.545	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-2-7'
Date Collected: 04/12/21 16:50
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-7
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	0.120	U	0.102	0.103	1.00	0.152	pCi/L	04/23/21 14:06	05/17/21 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					04/23/21 14:06	05/17/21 12:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.369	U	0.356	0.358	1.00	0.575	pCi/L	04/23/21 15:29	05/11/21 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					04/23/21 15:29	05/11/21 13:13	1
Y Carrier	84.9		40 - 110					04/23/21 15:29	05/11/21 13:13	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	0.489	U	0.370	0.373	5.00	0.575	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-2-7' FF
Date Collected: 04/12/21 20:00
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-8
Matrix: Water

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.118	U	0.116	0.116	1.00	0.178	pCi/L	04/22/21 13:36	05/14/21 22:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					04/22/21 13:36	05/14/21 22:29	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	0.162	U	0.349	0.349	1.00	0.599	pCi/L	04/22/21 15:21	05/10/21 13:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					04/22/21 15:21	05/10/21 13:05	1
Y Carrier	82.2		40 - 110					04/22/21 15:21	05/10/21 13:05	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.281	U	0.368	0.368	5.00	0.599	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-3-1'
Date Collected: 04/12/21 11:50
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-9
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	0.0649	U	0.0923	0.0925	1.00	0.157	pCi/L	04/23/21 14:06	05/17/21 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					04/23/21 14:06	05/17/21 12:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0344	U	0.346	0.346	1.00	0.627	pCi/L	04/23/21 15:29	05/11/21 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					04/23/21 15:29	05/11/21 13:13	1
Y Carrier	85.6		40 - 110					04/23/21 15:29	05/11/21 13:13	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	0.0305	U	0.358	0.358	5.00	0.627	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-3-1' FF
Date Collected: 04/12/21 11:55
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-10
Matrix: Water

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.127	U	0.149	0.149	1.00	0.243	pCi/L	04/22/21 13:36	05/14/21 22:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					04/22/21 13:36	05/14/21 22:30	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	0.370	U	0.406	0.408	1.00	0.666	pCi/L	04/22/21 15:21	05/10/21 13:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					04/22/21 15:21	05/10/21 13:06	1
Y Carrier	79.6		40 - 110					04/22/21 15:21	05/10/21 13:06	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.497	U	0.432	0.434	5.00	0.666	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-3-4'
Date Collected: 04/12/21 12:10
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-11
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	0.0224	U	0.0874	0.0874	1.00	0.168	pCi/L	04/23/21 14:06	05/17/21 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		40 - 110					04/23/21 14:06	05/17/21 12:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0800	U	0.405	0.405	1.00	0.708	pCi/L	04/23/21 15:29	05/11/21 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		40 - 110					04/23/21 15:29	05/11/21 13:13	1
Y Carrier	84.9		40 - 110					04/23/21 15:29	05/11/21 13:13	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	0.102	U	0.414	0.414	5.00	0.708	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-3-4' FF
Date Collected: 04/12/21 12:20
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-12
Matrix: Water

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.160	U	0.159	0.159	1.00	0.251	pCi/L	04/22/21 13:36	05/14/21 22:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					04/22/21 13:36	05/14/21 22:30	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	0.359	U	0.341	0.342	1.00	0.548	pCi/L	04/22/21 15:21	05/10/21 13:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					04/22/21 15:21	05/10/21 13:06	1
Y Carrier	81.5		40 - 110					04/22/21 15:21	05/10/21 13:06	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.519	U	0.376	0.377	5.00	0.548	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-4-1.5"

Lab Sample ID: 180-119924-13

Date Collected: 04/12/21 12:50

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0349	U	0.0835	0.0835	1.00	0.155	pCi/L	04/23/21 14:06	05/17/21 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		40 - 110					04/23/21 14:06	05/17/21 12:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0876	U	0.304	0.304	1.00	0.572	pCi/L	04/23/21 15:29	05/11/21 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		40 - 110					04/23/21 15:29	05/11/21 13:13	1
Y Carrier	85.6		40 - 110					04/23/21 15:29	05/11/21 13:13	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	-0.0527	U	0.315	0.315	5.00	0.572	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-4-1.5" FF

Lab Sample ID: 180-119924-14

Date Collected: 04/12/21 13:00

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0793	U	0.141	0.141	1.00	0.246	pCi/L	04/22/21 13:36	05/14/21 22:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		40 - 110					04/22/21 13:36	05/14/21 22:30	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	0.274	U	0.329	0.330	1.00	0.543	pCi/L	04/22/21 15:21	05/10/21 13:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		40 - 110					04/22/21 15:21	05/10/21 13:06	1
Y Carrier	82.6		40 - 110					04/22/21 15:21	05/10/21 13:06	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.353	U	0.358	0.359	5.00	0.543	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-5-1'
Date Collected: 04/12/21 14:15
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-15
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	0.109	U	0.113	0.113	1.00	0.179	pCi/L	04/23/21 14:06	05/17/21 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					04/23/21 14:06	05/17/21 12:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.203	U	0.342	0.343	1.00	0.651	pCi/L	04/23/21 15:29	05/11/21 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					04/23/21 15:29	05/11/21 13:13	1
Y Carrier	85.6		40 - 110					04/23/21 15:29	05/11/21 13:13	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	-0.0943	U	0.360	0.361	5.00	0.651	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-5-1' FF
Date Collected: 04/12/21 14:25
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-16
Matrix: Water

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0471	U	0.0926	0.0927	1.00	0.208	pCi/L	04/22/21 13:36	05/14/21 22:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					04/22/21 13:36	05/14/21 22:36	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	0.213	U	0.327	0.328	1.00	0.551	pCi/L	04/22/21 15:21	05/10/21 13:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					04/22/21 15:21	05/10/21 13:07	1
Y Carrier	84.5		40 - 110					04/22/21 15:21	05/10/21 13:07	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.166	U	0.340	0.341	5.00	0.551	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-5-13'

Lab Sample ID: 180-119924-17

Date Collected: 04/12/21 14:40

Matrix: Water

Date Received: 04/14/21 09:00

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	0.113	0.114	1.00	0.166	pCi/L	04/23/21 14:06	05/17/21 12:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					04/23/21 14:06	05/17/21 12:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0975	U	0.349	0.350	1.00	0.612	pCi/L	04/23/21 15:29	05/11/21 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					04/23/21 15:29	05/11/21 13:13	1
Y Carrier	84.1		40 - 110					04/23/21 15:29	05/11/21 13:13	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	0.367	0.368	5.00	0.612	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-5-13' FF

Lab Sample ID: 180-119924-18

Date Collected: 04/12/21 14:55

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0256	U	0.0892	0.0893	1.00	0.194	pCi/L	04/22/21 13:36	05/14/21 22:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					04/22/21 13:36	05/14/21 22:36	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	0.0908	U	0.311	0.311	1.00	0.545	pCi/L	04/22/21 15:21	05/10/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					04/22/21 15:21	05/10/21 13:08	1
Y Carrier	84.5		40 - 110					04/22/21 15:21	05/10/21 13:08	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0652	U	0.324	0.324	5.00	0.545	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-6-1'
Date Collected: 04/12/21 12:40
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-19
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	0.0774	U	0.0967	0.0969	1.00	0.160	pCi/L	04/23/21 14:06	05/17/21 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					04/23/21 14:06	05/17/21 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	0.162	U	0.334	0.334	1.00	0.571	pCi/L	04/23/21 15:29	05/11/21 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					04/23/21 15:29	05/11/21 13:13	1
Y Carrier	84.9		40 - 110					04/23/21 15:29	05/11/21 13:13	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	0.240	U	0.348	0.348	5.00	0.571	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-6-1' FF
Date Collected: 04/12/21 12:55
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-20
Matrix: Water

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0372	U	0.107	0.107	1.00	0.198	pCi/L	04/22/21 13:36	05/14/21 22:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					04/22/21 13:36	05/14/21 22:36	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	0.275	U	0.358	0.359	1.00	0.595	pCi/L	04/22/21 15:21	05/10/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					04/22/21 15:21	05/10/21 13:08	1
Y Carrier	84.9		40 - 110					04/22/21 15:21	05/10/21 13:08	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.312	U	0.374	0.375	5.00	0.595	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-6-9.5"

Lab Sample ID: 180-119924-21

Date Collected: 04/12/21 13:15

Matrix: Water

Date Received: 04/14/21 09:00

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		0.132	0.133	1.00	0.173	pCi/L	04/23/21 14:06	05/17/21 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					04/23/21 14:06	05/17/21 12:39	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	0.309	0.309	1.00	0.589	pCi/L	04/23/21 15:29	05/11/21 13:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					04/23/21 15:29	05/11/21 13:16	1
Y Carrier	86.0		40 - 110					04/23/21 15:29	05/11/21 13:16	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	0.0481	U	0.336	0.336	5.00	0.589	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-6-9.5" FF

Lab Sample ID: 180-119924-22

Date Collected: 04/12/21 13:25

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0764	U	0.129	0.129	1.00	0.224	pCi/L	04/22/21 13:36	05/14/21 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		40 - 110					04/22/21 13:36	05/14/21 22:37	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	0.237	U	0.365	0.366	1.00	0.614	pCi/L	04/22/21 15:21	05/10/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		40 - 110					04/22/21 15:21	05/10/21 13:08	1
Y Carrier	84.9		40 - 110					04/22/21 15:21	05/10/21 13:08	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.314	U	0.387	0.388	5.00	0.614	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-9-1'

Lab Sample ID: 180-119924-23

Date Collected: 04/12/21 15:25

Matrix: Water

Date Received: 04/14/21 09:00

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	0.113	0.113	1.00	0.165	pCi/L	04/23/21 14:06	05/17/21 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					04/23/21 14:06	05/17/21 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	0.453	U	0.318	0.320	1.00	0.486	pCi/L	04/23/21 15:29	05/11/21 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					04/23/21 15:29	05/11/21 13:17	1
Y Carrier	86.4		40 - 110					04/23/21 15:29	05/11/21 13:17	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	0.591		0.337	0.339	5.00	0.486	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-9-1' FF

Lab Sample ID: 180-119924-24

Date Collected: 04/12/21 15:35

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0582	U	0.123	0.123	1.00	0.220	pCi/L	04/22/21 13:36	05/14/21 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					04/22/21 13:36	05/14/21 22:37	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	0.275	U	0.345	0.346	1.00	0.572	pCi/L	04/22/21 15:21	05/10/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					04/22/21 15:21	05/10/21 13:08	1
Y Carrier	84.9		40 - 110					04/22/21 15:21	05/10/21 13:08	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.333	U	0.366	0.367	5.00	0.572	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-9-4'
Date Collected: 04/12/21 15:55
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-25
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	0.0717	U	0.102	0.102	1.00	0.173	pCi/L	04/23/21 14:06	05/17/21 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					04/23/21 14:06	05/17/21 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	0.233	U	0.270	0.270	1.00	0.443	pCi/L	04/23/21 15:29	05/11/21 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					04/23/21 15:29	05/11/21 13:17	1
Y Carrier	87.1		40 - 110					04/23/21 15:29	05/11/21 13:17	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	0.304	U	0.289	0.289	5.00	0.443	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-9-4' FF
Date Collected: 04/12/21 16:05
Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-26
Matrix: Water

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0276	U	0.101	0.101	1.00	0.193	pCi/L	04/22/21 13:36	05/14/21 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					04/22/21 13:36	05/14/21 22:37	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	0.248	U	0.329	0.330	1.00	0.548	pCi/L	04/22/21 15:21	05/10/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					04/22/21 15:21	05/10/21 13:08	1
Y Carrier	85.6		40 - 110					04/22/21 15:21	05/10/21 13:08	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.275	U	0.344	0.345	5.00	0.548	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-10-2'

Lab Sample ID: 180-119924-27

Date Collected: 04/12/21 16:35

Matrix: Water

Date Received: 04/14/21 09:00

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	0.0817	0.0819	1.00	0.137	pCi/L	04/23/21 14:06	05/17/21 12:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					04/23/21 14:06	05/17/21 12:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.424	U	0.357	0.359	1.00	0.569	pCi/L	04/23/21 15:29	05/11/21 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					04/23/21 15:29	05/11/21 13:17	1
Y Carrier	88.2		40 - 110					04/23/21 15:29	05/11/21 13:17	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	0.485	U	0.366	0.368	5.00	0.569	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-10-2' FF

Lab Sample ID: 180-119924-28

Date Collected: 04/12/21 16:45

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0127	U	0.0882	0.0882	1.00	0.177	pCi/L	04/22/21 13:36	05/14/21 22:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		40 - 110					04/22/21 13:36	05/14/21 22:37	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	-0.301	U	0.293	0.295	1.00	0.584	pCi/L	04/22/21 15:21	05/10/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		40 - 110					04/22/21 15:21	05/10/21 13:08	1
Y Carrier	88.6		40 - 110					04/22/21 15:21	05/10/21 13:08	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	-0.288	U	0.306	0.308	5.00	0.584	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-11-1'

Lab Sample ID: 180-119924-29

Date Collected: 04/12/21 17:15

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.122	U	0.102	0.103	1.00	0.150	pCi/L	04/23/21 14:06	05/17/21 12:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					04/23/21 14:06	05/17/21 12:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0925	U	0.305	0.305	1.00	0.536	pCi/L	04/23/21 15:29	05/11/21 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					04/23/21 15:29	05/11/21 13:17	1
Y Carrier	83.0		40 - 110					04/23/21 15:29	05/11/21 13:17	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	0.322	0.322	5.00	0.536	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-11-1' FF

Lab Sample ID: 180-119924-30

Date Collected: 04/12/21 17:25

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.131	U	0.114	0.114	1.00	0.170	pCi/L	04/22/21 13:36	05/14/21 22:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					04/22/21 13:36	05/14/21 22:38	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	0.407	U	0.344	0.346	1.00	0.548	pCi/L	04/22/21 15:21	05/10/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					04/22/21 15:21	05/10/21 13:08	1
Y Carrier	85.2		40 - 110					04/22/21 15:21	05/10/21 13:08	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.538	U	0.362	0.364	5.00	0.548	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-12-1'

Lab Sample ID: 180-119924-31

Date Collected: 04/12/21 18:10

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00780	U	0.0812	0.0812	1.00	0.171	pCi/L	04/23/21 14:06	05/17/21 12:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					04/23/21 14:06	05/17/21 12:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0873	U	0.299	0.299	1.00	0.526	pCi/L	04/23/21 15:29	05/11/21 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					04/23/21 15:29	05/11/21 13:17	1
Y Carrier	86.0		40 - 110					04/23/21 15:29	05/11/21 13:17	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	0.0795	U	0.310	0.310	5.00	0.526	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-12-1' FF

Lab Sample ID: 180-119924-32

Date Collected: 04/12/21 18:20

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0596	U	0.102	0.102	1.00	0.178	pCi/L	04/22/21 13:36	05/14/21 22:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					04/22/21 13:36	05/14/21 22:38	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	0.257	U	0.303	0.304	1.00	0.501	pCi/L	04/22/21 15:21	05/10/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					04/22/21 15:21	05/10/21 13:08	1
Y Carrier	87.1		40 - 110					04/22/21 15:21	05/10/21 13:08	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.316	U	0.320	0.321	5.00	0.501	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-13-1'

Lab Sample ID: 180-119924-33

Date Collected: 04/12/21 14:20

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0739	U	0.106	0.106	1.00	0.179	pCi/L	04/23/21 14:06	05/18/21 06:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					04/23/21 14:06	05/18/21 06:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.348	U	0.336	0.337	1.00	0.542	pCi/L	04/23/21 15:29	05/11/21 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					04/23/21 15:29	05/11/21 13:17	1
Y Carrier	87.9		40 - 110					04/23/21 15:29	05/11/21 13:17	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	0.422	U	0.352	0.353	5.00	0.542	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-13-1' FF

Lab Sample ID: 180-119924-34

Date Collected: 04/12/21 14:30

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0251	U	0.0865	0.0866	1.00	0.167	pCi/L	04/22/21 13:36	05/14/21 22:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					04/22/21 13:36	05/14/21 22:38	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	0.264	U	0.308	0.309	1.00	0.507	pCi/L	04/22/21 15:21	05/10/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					04/22/21 15:21	05/10/21 13:08	1
Y Carrier	85.6		40 - 110					04/22/21 15:21	05/10/21 13:08	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.289	U	0.320	0.321	5.00	0.507	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-14-1.5"

Lab Sample ID: 180-119924-35

Date Collected: 04/12/21 14:55

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0112	U	0.0772	0.0772	1.00	0.162	pCi/L	04/23/21 14:06	05/18/21 06:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					04/23/21 14:06	05/18/21 06:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.264	U	0.279	0.280	1.00	0.556	pCi/L	04/23/21 15:29	05/11/21 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					04/23/21 15:29	05/11/21 13:17	1
Y Carrier	87.1		40 - 110					04/23/21 15:29	05/11/21 13:17	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	0.289	0.290	5.00	0.556	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-14-1.5" FF

Lab Sample ID: 180-119924-36

Date Collected: 04/12/21 15:05

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0393	U	0.0989	0.0989	1.00	0.182	pCi/L	04/22/21 13:36	05/14/21 22:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					04/22/21 13:36	05/14/21 22:38	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	-0.0888	U	0.303	0.303	1.00	0.561	pCi/L	04/22/21 15:21	05/10/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					04/22/21 15:21	05/10/21 13:08	1
Y Carrier	89.0		40 - 110					04/22/21 15:21	05/10/21 13:08	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	-0.0496	U	0.319	0.319	5.00	0.561	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-15-1.5"

Lab Sample ID: 180-119924-37

Date Collected: 04/12/21 15:35

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0214	U	0.103	0.103	1.00	0.195	pCi/L	04/23/21 14:06	05/18/21 06:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					04/23/21 14:06	05/18/21 06:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.131	U	0.350	0.350	1.00	0.606	pCi/L	04/23/21 15:29	05/11/21 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					04/23/21 15:29	05/11/21 13:18	1
Y Carrier	88.2		40 - 110					04/23/21 15:29	05/11/21 13:18	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	0.152	U	0.365	0.365	5.00	0.606	pCi/L		05/18/21 14:41	1

Client Sample ID: SW-15-1.5" FF

Lab Sample ID: 180-119924-38

Date Collected: 04/12/21 15:45

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0281	U	0.0958	0.0958	1.00	0.183	pCi/L	04/22/21 13:36	05/14/21 22:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					04/22/21 13:36	05/14/21 22:38	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	0.279	U	0.347	0.348	1.00	0.576	pCi/L	04/22/21 15:21	05/10/21 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					04/22/21 15:21	05/10/21 13:09	1
Y Carrier	88.6		40 - 110					04/22/21 15:21	05/10/21 13:09	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.307	U	0.360	0.361	5.00	0.576	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-16-1.5"

Lab Sample ID: 180-119924-39

Date Collected: 04/12/21 16:10

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0666	U	0.0948	0.0949	1.00	0.161	pCi/L	04/23/21 15:37	05/18/21 07:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					04/23/21 15:37	05/18/21 07:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.696		0.412	0.417	1.00	0.626	pCi/L	04/23/21 16:50	05/11/21 17:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					04/23/21 16:50	05/11/21 17:47	1
Y Carrier	84.1		40 - 110					04/23/21 16:50	05/11/21 17:47	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	0.762		0.423	0.428	5.00	0.626	pCi/L		05/19/21 22:07	1

Client Sample ID: SW-16-1.5" FF

Lab Sample ID: 180-119924-40

Date Collected: 04/12/21 16:20

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0164	U	0.0910	0.0911	1.00	0.180	pCi/L	04/22/21 13:36	05/14/21 22:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		40 - 110					04/22/21 13:36	05/14/21 22:38	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	-0.0100	U	0.290	0.290	1.00	0.529	pCi/L	04/22/21 15:21	05/10/21 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		40 - 110					04/22/21 15:21	05/10/21 13:09	1
Y Carrier	86.0		40 - 110					04/22/21 15:21	05/10/21 13:09	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.00636	U	0.304	0.304	5.00	0.529	pCi/L		05/19/21 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: SW-17-1'

Lab Sample ID: 180-119924-41

Date Collected: 04/12/21 12:50

Matrix: Water

Date Received: 04/14/21 09:00

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	0.0794	0.0794	1.00	0.163	pCi/L	04/23/21 15:37	05/18/21 07:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					04/23/21 15:37	05/18/21 07:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.334	U	0.342	0.343	1.00	0.556	pCi/L	04/23/21 16:50	05/11/21 17:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					04/23/21 16:50	05/11/21 17:47	1
Y Carrier	83.7		40 - 110					04/23/21 16:50	05/11/21 17:47	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	0.334	U	0.351	0.352	5.00	0.556	pCi/L		05/19/21 22:07	1

Client Sample ID: SW-17-1' FF

Lab Sample ID: 180-119924-42

Date Collected: 04/12/21 13:00

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0117	U	0.0760	0.0760	1.00	0.149	pCi/L	04/23/21 18:38	05/18/21 09:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					04/23/21 18:38	05/18/21 09:07	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	0.235	U	0.368	0.369	1.00	0.620	pCi/L	04/23/21 20:07	05/06/21 20:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					04/23/21 20:07	05/06/21 20:38	1
Y Carrier	83.4		40 - 110					04/23/21 20:07	05/06/21 20:38	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.246	U	0.376	0.377	5.00	0.620	pCi/L		05/19/21 15:58	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: DUP-010

Lab Sample ID: 180-119924-43

Date Collected: 04/12/21 11:40

Matrix: Water

Date Received: 04/14/21 09:00

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	0.106	0.107	1.00	0.168	pCi/L	04/23/21 15:37	05/18/21 07:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.6		40 - 110					04/23/21 15:37	05/18/21 07:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.495	U	0.415	0.418	1.00	0.661	pCi/L	04/23/21 16:50	05/11/21 17:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.6		40 - 110					04/23/21 16:50	05/11/21 17:48	1
Y Carrier	82.2		40 - 110					04/23/21 16:50	05/11/21 17:48	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	0.595	U	0.428	0.431	5.00	0.661	pCi/L		05/19/21 22:07	1

Client Sample ID: DUP-01-FF

Lab Sample ID: 180-119924-44

Date Collected: 04/12/21 11:55

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0534	U	0.0735	0.0736	1.00	0.124	pCi/L	04/23/21 18:38	05/18/21 09:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					04/23/21 18:38	05/18/21 09:07	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	0.521	U	0.365	0.368	1.00	0.567	pCi/L	04/23/21 20:07	05/06/21 20:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					04/23/21 20:07	05/06/21 20:38	1
Y Carrier	83.7		40 - 110					04/23/21 20:07	05/06/21 20:38	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.575		0.372	0.375	5.00	0.567	pCi/L		05/19/21 15:58	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: DUP-02

Lab Sample ID: 180-119924-45

Date Collected: 04/12/21 16:15

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0799	U	0.0970	0.0972	1.00	0.159	pCi/L	04/23/21 15:37	05/18/21 07:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		40 - 110					04/23/21 15:37	05/18/21 07:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.403	U	0.382	0.384	1.00	0.618	pCi/L	04/23/21 16:50	05/11/21 17:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		40 - 110					04/23/21 16:50	05/11/21 17:50	1
Y Carrier	84.5		40 - 110					04/23/21 16:50	05/11/21 17:50	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	0.483	U	0.394	0.396	5.00	0.618	pCi/L		05/19/21 22:07	1

Client Sample ID: DUP-02-FF

Lab Sample ID: 180-119924-46

Date Collected: 04/12/21 16:25

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0991	U	0.0861	0.0866	1.00	0.129	pCi/L	04/23/21 18:38	05/18/21 09:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					04/23/21 18:38	05/18/21 09:08	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	0.887		0.405	0.413	1.00	0.581	pCi/L	04/23/21 20:07	05/06/21 20:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					04/23/21 20:07	05/06/21 20:39	1
Y Carrier	81.9		40 - 110					04/23/21 20:07	05/06/21 20:39	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.986		0.414	0.422	5.00	0.581	pCi/L		05/19/21 15:58	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: DUP-03

Lab Sample ID: 180-119924-47

Date Collected: 04/12/21 17:25

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.118	U	0.108	0.108	1.00	0.164	pCi/L	04/23/21 15:37	05/18/21 07:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.7		40 - 110					04/23/21 15:37	05/18/21 07:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0317	U	0.356	0.356	1.00	0.643	pCi/L	04/23/21 16:50	05/11/21 17:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.7		40 - 110					04/23/21 16:50	05/11/21 17:50	1
Y Carrier	82.6		40 - 110					04/23/21 16:50	05/11/21 17:50	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	0.0865	U	0.372	0.372	5.00	0.643	pCi/L		05/19/21 22:07	1

Client Sample ID: DUP-03-FF

Lab Sample ID: 180-119924-48

Date Collected: 04/12/21 17:35

Matrix: Water

Date Received: 04/14/21 09:00

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.000	U	0.0679	0.0679	1.00	0.140	pCi/L	04/23/21 18:38	05/18/21 09:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					04/23/21 18:38	05/18/21 09:08	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	0.201	U	0.364	0.365	1.00	0.619	pCi/L	04/23/21 20:07	05/06/21 20:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					04/23/21 20:07	05/06/21 20:39	1
Y Carrier	81.5		40 - 110					04/23/21 20:07	05/06/21 20:39	1

Method: Ra226_Ra228 (D) - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.201	U	0.370	0.371	5.00	0.619	pCi/L		05/19/21 15:58	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: EB-01

Date Collected: 04/12/21 10:30

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-49

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	0.0187	U	0.0655	0.0655	1.00	0.124	pCi/L	04/23/21 15:37	05/18/21 07:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					04/23/21 15:37	05/18/21 07:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0559	U	0.248	0.248	1.00	0.452	pCi/L	04/23/21 16:50	05/11/21 17:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					04/23/21 16:50	05/11/21 17:50	1
Y Carrier	82.6		40 - 110					04/23/21 16:50	05/11/21 17:50	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	-0.0372	U	0.257	0.257	5.00	0.452	pCi/L		05/19/21 22:07	1

Client Sample ID: EB-02

Date Collected: 04/12/21 19:30

Date Received: 04/14/21 09:00

Lab Sample ID: 180-119924-50

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	0.0170	U	0.0608	0.0608	1.00	0.117	pCi/L	04/23/21 15:37	05/18/21 07:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					04/23/21 15:37	05/18/21 07:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.282	U	0.247	0.249	1.00	0.396	pCi/L	04/23/21 16:50	05/11/21 17:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					04/23/21 16:50	05/11/21 17:50	1
Y Carrier	86.7		40 - 110					04/23/21 16:50	05/11/21 17:50	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Client Sample ID: EB-02

Lab Sample ID: 180-119924-50

Date Collected: 04/12/21 19:30

Matrix: Water

Date Received: 04/14/21 09:00

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	0.299	U	0.254	0.256	5.00	0.396	pCi/L		05/19/21 22:07	1

- 1
- 2
- 3
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- 10
- 11
- 12
- 13

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-506591/23-A
Matrix: Water
Analysis Batch: 509542

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506591

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)				04/22/21 13:36	05/14/21 22:38			
Radium-226	0.01741	U	0.105	0.105	1.00	0.205	pCi/L	04/22/21 13:36	05/14/21 22:38		1	
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac		
Ba Carrier	82.1		40 - 110					04/22/21 13:36	05/14/21 22:38	1		

Lab Sample ID: LCS 160-506591/1-A
Matrix: Water
Analysis Batch: 509878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506591

Analyte	LCS		Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
	Result	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)					75 - 125	
Radium-226			15.1	15.05		1.63	1.00	0.178	pCi/L	100	75 - 125	
Carrier	LCS		Limits									
Ba Carrier	83.3		40 - 110									

Lab Sample ID: LCSD 160-506591/2-A
Matrix: Water
Analysis Batch: 509878

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506591

Analyte	LCSD		Spike	LCSD	LCSD	Total	RL	MDC	Unit	%Rec	%Rec. Limits		RER	Limit
	Result	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)					75 - 125	RER	Limit	
Radium-226			15.1	14.66		1.59	1.00	0.173	pCi/L	97	75 - 125		0.12	1
Carrier	LCSD		Limits											
Ba Carrier	84.5		40 - 110											

Lab Sample ID: MB 160-506615/23-A
Matrix: Water
Analysis Batch: 509878

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506615

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)				04/22/21 18:34	05/14/21 22:27			
Radium-226	0.006772	U	0.0835	0.0835	1.00	0.164	pCi/L	04/22/21 18:34	05/14/21 22:27		1	
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac		
Ba Carrier	88.5		40 - 110					04/22/21 18:34	05/14/21 22:27	1		

Lab Sample ID: LCS 160-506615/1-A
Matrix: Water
Analysis Batch: 509542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506615

Analyte	LCS		Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
	Result	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)					75 - 125	
Radium-226			11.3	11.43		1.22	1.00	0.152	pCi/L	101	75 - 125	

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-506615/1-A
Matrix: Water
Analysis Batch: 509542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506615

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	83.0		40 - 110

Lab Sample ID: LCSD 160-506615/2-A
Matrix: Water
Analysis Batch: 509542

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506615

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
									75 - 125	0.17	1	
Radium-226	11.3	11.85		1.27	1.00	0.157	pCi/L	105	75 - 125	0.17		1

	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	81.5		40 - 110

Lab Sample ID: MB 160-506756/23-A
Matrix: Water
Analysis Batch: 510268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506756

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								04/23/21 14:06	05/18/21 06:59	05/18/21 06:59	06:59	1
Radium-226	0.05766	U	0.0808	0.0810	1.00	0.137	pCi/L	04/23/21 14:06	05/18/21 06:59	05/18/21 06:59	06:59	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110	04/23/21 14:06	05/18/21 06:59	1

Lab Sample ID: LCS 160-506756/1-A
Matrix: Water
Analysis Batch: 510107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506756

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75 - 125	
Radium-226	15.1	14.14		1.50	1.00	0.190	pCi/L	94	75 - 125	

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	85.5		40 - 110

Lab Sample ID: MB 160-506765/23-A
Matrix: Water
Analysis Batch: 510268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506765

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								04/23/21 15:37	05/18/21 09:06	05/18/21 09:06	09:06	1
Radium-226	-0.04273	U	0.0704	0.0705	1.00	0.166	pCi/L	04/23/21 15:37	05/18/21 09:06	05/18/21 09:06	09:06	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110	04/23/21 15:37	05/18/21 09:06	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-506765/1-A
Matrix: Water
Analysis Batch: 510268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506765

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-226	15.1	14.04		1.50	1.00	0.174	pCi/L	93	75 - 125	
Carrier		LCS %Yield	LCS Qualifier	Limits						
Ba Carrier		84.5		40 - 110						

Lab Sample ID: LCSD 160-506765/2-A
Matrix: Water
Analysis Batch: 510268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506765

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
									75	125	0.34	1
Radium-226	15.1	13.06		1.38	1.00	0.141	pCi/L	86	75 - 125	0.34	1	
Carrier		LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier		93.0		40 - 110								

Lab Sample ID: MB 160-506770/23-A
Matrix: Water
Analysis Batch: 510283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506770

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								04/23/21 18:38	05/18/21 09:12	05/18/21 09:12		1
Radium-226	-0.03420	U	0.0443	0.0444	1.00	0.111	pCi/L	04/23/21 18:38	05/18/21 09:12	05/18/21 09:12		1
Carrier		MB %Yield	MB Qualifier	Limits	Prepared		Analyzed		Dil Fac			
Ba Carrier		84.2		40 - 110	04/23/21 18:38		05/18/21 09:12		1			

Lab Sample ID: LCS 160-506770/1-A
Matrix: Water
Analysis Batch: 510268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506770

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-226	11.3	11.37		1.18	1.00	0.127	pCi/L	100	75 - 125	
Carrier		LCS %Yield	LCS Qualifier	Limits						
Ba Carrier		80.9		40 - 110						

Lab Sample ID: LCSD 160-506770/2-A
Matrix: Water
Analysis Batch: 510268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506770

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
									75	125	0.34	1
Radium-226	11.3	10.59		1.10	1.00	0.0945	pCi/L	93	75 - 125	0.34	1	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCSD 160-506770/2-A
Matrix: Water
Analysis Batch: 510268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506770

Carrier	LCS D %Yield	LCS D Qualifier	Limits
Ba Carrier	85.5		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-506602/23-A
Matrix: Water
Analysis Batch: 508982

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506602

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.05123	U	0.314	0.314	1.00	0.559	pCi/L	04/22/21 15:21	05/10/21 13:09	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110	04/22/21 15:21	05/10/21 13:09	1
Y Carrier	90.1		40 - 110	04/22/21 15:21	05/10/21 13:09	1

Lab Sample ID: LCS 160-506602/1-A
Matrix: Water
Analysis Batch: 508968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506602

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.63	10.34		1.32	1.00	0.637	pCi/L	107	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	83.3		40 - 110
Y Carrier	82.2		40 - 110

Lab Sample ID: LCSD 160-506602/2-A
Matrix: Water
Analysis Batch: 508968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506602

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	9.63	9.763		1.26	1.00	0.610	pCi/L	101	75 - 125	0.22	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	84.5		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: MB 160-506619/23-A
Matrix: Water
Analysis Batch: 508981

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506619

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.07700	U	0.263	0.263	1.00	0.479	pCi/L	04/22/21 19:47	05/10/21 13:18	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

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

Lab Sample ID: MB 160-506619/23-A
Matrix: Water
Analysis Batch: 508981

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506619

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	88.5		40 - 110	04/22/21 19:47	05/10/21 13:18	1
Y Carrier	91.2		40 - 110	04/22/21 19:47	05/10/21 13:18	1

Lab Sample ID: LCS 160-506619/1-A
Matrix: Water
Analysis Batch: 508982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506619

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	83.0		40 - 110
Y Carrier	85.2		40 - 110

Lab Sample ID: LCSD 160-506619/2-A
Matrix: Water
Analysis Batch: 508982

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506619

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit

Carrier	LCSD LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	81.5		40 - 110
Y Carrier	86.0		40 - 110

Lab Sample ID: MB 160-506762/23-A
Matrix: Water
Analysis Batch: 509249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506762

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	92.7		40 - 110	04/23/21 15:29	05/11/21 13:18	1
Y Carrier	87.9		40 - 110	04/23/21 15:29	05/11/21 13:18	1

Lab Sample ID: LCS 160-506762/1-A
Matrix: Water
Analysis Batch: 509146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506762

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

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

Lab Sample ID: LCS 160-506762/1-A
Matrix: Water
Analysis Batch: 509146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506762

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	85.5		40 - 110
Y Carrier	68.4		40 - 110

Lab Sample ID: MB 160-506766/23-A
Matrix: Water
Analysis Batch: 509145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506766

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier										
Radium-228	0.4776	U	0.323	0.326	1.00	0.493	pCi/L	04/23/21 16:50	05/11/21 17:52		1	

Carrier	MB		Limits	Prepared		Analyzed		Dil Fac
	%Yield	Qualifier						
Ba Carrier	87.3		40 - 110	04/23/21 16:50	05/11/21 17:52		1	
Y Carrier	84.5		40 - 110	04/23/21 16:50	05/11/21 17:52		1	

Lab Sample ID: LCS 160-506766/1-A
Matrix: Water
Analysis Batch: 509146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506766

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									Radium-228	9.63

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	84.5		40 - 110
Y Carrier	69.5		40 - 110

Lab Sample ID: LCSD 160-506766/2-A
Matrix: Water
Analysis Batch: 509146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506766

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	Limit
									Radium-228	9.63	10.30	

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	93.0		40 - 110
Y Carrier	83.7		40 - 110

Lab Sample ID: MB 160-506772/23-A
Matrix: Water
Analysis Batch: 508605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506772

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier										
Radium-228	0.2803	U	0.262	0.264	1.00	0.422	pCi/L	04/23/21 20:07	05/06/21 20:38		1	

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

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

Lab Sample ID: MB 160-506772/23-A
Matrix: Water
Analysis Batch: 508605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506772

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	84.2		40 - 110
Y Carrier	83.7		40 - 110

Prepared	Analyzed	Dil Fac
04/23/21 20:07	05/06/21 20:38	1
04/23/21 20:07	05/06/21 20:38	1

Lab Sample ID: LCS 160-506772/1-A
Matrix: Water
Analysis Batch: 508605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506772

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	7.23	9.457		1.16	1.00	0.467	pCi/L	131	75 - 125	

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	80.9		40 - 110
Y Carrier	81.1		40 - 110

Lab Sample ID: LCSD 160-506772/2-A
Matrix: Water
Analysis Batch: 508605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506772

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
Radium-228	7.23	9.185		1.13	1.00	0.450	pCi/L	127	75 - 125	0.12	1	

Carrier	LCSD LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	85.5		40 - 110
Y Carrier	77.0		40 - 110

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Rad

Prep Batch: 506591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-2	SW-1-1' FF	Dissolved	Water	PrecSep-21	
180-119924-4	SW-1-7' FF	Dissolved	Water	PrecSep-21	
180-119924-6	SW-2-1' FF	Dissolved	Water	PrecSep-21	
180-119924-8	SW-2-7' FF	Dissolved	Water	PrecSep-21	
180-119924-10	SW-3-1' FF	Dissolved	Water	PrecSep-21	
180-119924-12	SW-3-4' FF	Dissolved	Water	PrecSep-21	
180-119924-14	SW-4-1.5" FF	Dissolved	Water	PrecSep-21	
180-119924-16	SW-5-1' FF	Dissolved	Water	PrecSep-21	
180-119924-18	SW-5-13' FF	Dissolved	Water	PrecSep-21	
180-119924-20	SW-6-1' FF	Dissolved	Water	PrecSep-21	
180-119924-22	SW-6-9.5" FF	Dissolved	Water	PrecSep-21	
180-119924-24	SW-9-1' FF	Dissolved	Water	PrecSep-21	
180-119924-26	SW-9-4' FF	Dissolved	Water	PrecSep-21	
180-119924-28	SW-10-2' FF	Dissolved	Water	PrecSep-21	
180-119924-30	SW-11-1' FF	Dissolved	Water	PrecSep-21	
180-119924-32	SW-12-1' FF	Dissolved	Water	PrecSep-21	
180-119924-34	SW-13-1' FF	Dissolved	Water	PrecSep-21	
180-119924-36	SW-14-1.5" FF	Dissolved	Water	PrecSep-21	
180-119924-38	SW-15-1.5" FF	Dissolved	Water	PrecSep-21	
180-119924-40	SW-16-1.5" FF	Dissolved	Water	PrecSep-21	
MB 160-506591/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-506591/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-506591/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 506602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-2	SW-1-1' FF	Dissolved	Water	PrecSep_0	
180-119924-4	SW-1-7' FF	Dissolved	Water	PrecSep_0	
180-119924-6	SW-2-1' FF	Dissolved	Water	PrecSep_0	
180-119924-8	SW-2-7' FF	Dissolved	Water	PrecSep_0	
180-119924-10	SW-3-1' FF	Dissolved	Water	PrecSep_0	
180-119924-12	SW-3-4' FF	Dissolved	Water	PrecSep_0	
180-119924-14	SW-4-1.5" FF	Dissolved	Water	PrecSep_0	
180-119924-16	SW-5-1' FF	Dissolved	Water	PrecSep_0	
180-119924-18	SW-5-13' FF	Dissolved	Water	PrecSep_0	
180-119924-20	SW-6-1' FF	Dissolved	Water	PrecSep_0	
180-119924-22	SW-6-9.5" FF	Dissolved	Water	PrecSep_0	
180-119924-24	SW-9-1' FF	Dissolved	Water	PrecSep_0	
180-119924-26	SW-9-4' FF	Dissolved	Water	PrecSep_0	
180-119924-28	SW-10-2' FF	Dissolved	Water	PrecSep_0	
180-119924-30	SW-11-1' FF	Dissolved	Water	PrecSep_0	
180-119924-32	SW-12-1' FF	Dissolved	Water	PrecSep_0	
180-119924-34	SW-13-1' FF	Dissolved	Water	PrecSep_0	
180-119924-36	SW-14-1.5" FF	Dissolved	Water	PrecSep_0	
180-119924-38	SW-15-1.5" FF	Dissolved	Water	PrecSep_0	
180-119924-40	SW-16-1.5" FF	Dissolved	Water	PrecSep_0	
MB 160-506602/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-506602/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-506602/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Rad

Prep Batch: 506615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-1	SW-1-1'	Total/NA	Water	PrecSep-21	
MB 160-506615/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-506615/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-506615/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 506619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-1	SW-1-1'	Total/NA	Water	PrecSep_0	
MB 160-506619/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-506619/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-506619/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 506756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-3	SW-1-7'	Total/NA	Water	PrecSep-21	
180-119924-5	SW-2-1'	Total/NA	Water	PrecSep-21	
180-119924-7	SW-2-7'	Total/NA	Water	PrecSep-21	
180-119924-9	SW-3-1'	Total/NA	Water	PrecSep-21	
180-119924-11	SW-3-4'	Total/NA	Water	PrecSep-21	
180-119924-13	SW-4-1.5"	Total/NA	Water	PrecSep-21	
180-119924-15	SW-5-1'	Total/NA	Water	PrecSep-21	
180-119924-17	SW-5-13'	Total/NA	Water	PrecSep-21	
180-119924-19	SW-6-1'	Total/NA	Water	PrecSep-21	
180-119924-21	SW-6-9.5"	Total/NA	Water	PrecSep-21	
180-119924-23	SW-9-1'	Total/NA	Water	PrecSep-21	
180-119924-25	SW-9-4'	Total/NA	Water	PrecSep-21	
180-119924-27	SW-10-2'	Total/NA	Water	PrecSep-21	
180-119924-29	SW-11-1'	Total/NA	Water	PrecSep-21	
180-119924-31	SW-12-1'	Total/NA	Water	PrecSep-21	
180-119924-33	SW-13-1'	Total/NA	Water	PrecSep-21	
180-119924-35	SW-14-1.5"	Total/NA	Water	PrecSep-21	
180-119924-37	SW-15-1.5"	Total/NA	Water	PrecSep-21	
MB 160-506756/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-506756/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 506762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-3	SW-1-7'	Total/NA	Water	PrecSep_0	
180-119924-5	SW-2-1'	Total/NA	Water	PrecSep_0	
180-119924-7	SW-2-7'	Total/NA	Water	PrecSep_0	
180-119924-9	SW-3-1'	Total/NA	Water	PrecSep_0	
180-119924-11	SW-3-4'	Total/NA	Water	PrecSep_0	
180-119924-13	SW-4-1.5"	Total/NA	Water	PrecSep_0	
180-119924-15	SW-5-1'	Total/NA	Water	PrecSep_0	
180-119924-17	SW-5-13'	Total/NA	Water	PrecSep_0	
180-119924-19	SW-6-1'	Total/NA	Water	PrecSep_0	
180-119924-21	SW-6-9.5"	Total/NA	Water	PrecSep_0	
180-119924-23	SW-9-1'	Total/NA	Water	PrecSep_0	
180-119924-25	SW-9-4'	Total/NA	Water	PrecSep_0	
180-119924-27	SW-10-2'	Total/NA	Water	PrecSep_0	
180-119924-29	SW-11-1'	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Rad (Continued)

Prep Batch: 506762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-31	SW-12-1'	Total/NA	Water	PrecSep_0	
180-119924-33	SW-13-1'	Total/NA	Water	PrecSep_0	
180-119924-35	SW-14-1.5"	Total/NA	Water	PrecSep_0	
180-119924-37	SW-15-1.5"	Total/NA	Water	PrecSep_0	
MB 160-506762/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-506762/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 506765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-39	SW-16-1.5"	Total/NA	Water	PrecSep-21	
180-119924-41	SW-17-1'	Total/NA	Water	PrecSep-21	
180-119924-43	DUP-010	Total/NA	Water	PrecSep-21	
180-119924-45	DUP-02	Total/NA	Water	PrecSep-21	
180-119924-47	DUP-03	Total/NA	Water	PrecSep-21	
180-119924-49	EB-01	Total/NA	Water	PrecSep-21	
180-119924-50	EB-02	Total/NA	Water	PrecSep-21	
MB 160-506765/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-506765/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-506765/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 506766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-39	SW-16-1.5"	Total/NA	Water	PrecSep_0	
180-119924-41	SW-17-1'	Total/NA	Water	PrecSep_0	
180-119924-43	DUP-010	Total/NA	Water	PrecSep_0	
180-119924-45	DUP-02	Total/NA	Water	PrecSep_0	
180-119924-47	DUP-03	Total/NA	Water	PrecSep_0	
180-119924-49	EB-01	Total/NA	Water	PrecSep_0	
180-119924-50	EB-02	Total/NA	Water	PrecSep_0	
MB 160-506766/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-506766/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-506766/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 506770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-42	SW-17-1' FF	Dissolved	Water	PrecSep-21	
180-119924-44	DUP-01-FF	Dissolved	Water	PrecSep-21	
180-119924-46	DUP-02-FF	Dissolved	Water	PrecSep-21	
180-119924-48	DUP-03-FF	Dissolved	Water	PrecSep-21	
MB 160-506770/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-506770/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-506770/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 506772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119924-42	SW-17-1' FF	Dissolved	Water	PrecSep_0	
180-119924-44	DUP-01-FF	Dissolved	Water	PrecSep_0	
180-119924-46	DUP-02-FF	Dissolved	Water	PrecSep_0	
180-119924-48	DUP-03-FF	Dissolved	Water	PrecSep_0	
MB 160-506772/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-506772/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surfacewater

Job ID: 180-119924-2

Rad (Continued)

Prep Batch: 506772 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 160-506772/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

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Chain of Custody Record

Client Information Client Contact: <u>Lauren Parker</u> Company: <u>Southern Company</u> Address: <u>3535 Colonnade Parkway Bin S 530 EC</u> City: <u>Birmingham</u> State, Zip: <u>AL, 35243</u> Phone: <u>205-992-6283(Tel)</u> Email: <u>leparker@southernco.com</u> Project Name: <u>Plant Watson Surfacewater</u> Site:		Sampler: <u>Kyle Alexander</u> Lab PM: <u>Shali Brown, Shali Brown</u> Phone: <u>850-336-0192</u> E-Mail: <u>Shali.Brown@Eurofins.com</u> PWSID:		Carrier Tracking No(s): State of Origin:		COC No: <u>180-69130-13601.3</u> Page: <u>5 of 5</u> Job #:			
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: <u>SCS10382606</u> WO #: <u>18020186</u> Project #: <u>18020186</u> SSON#:		Analysis Requested 9315 - Ra226, 9320 - Ra228 300 ORGFM, 28D - Chloride Fluoride Sulfate (Field Filtered) 23203 - Alk, Total, Bicarb, Carb (Field Filtered) 60208 - Custom 14 (App III & IV)+Hg Field Filter 2540C - Calcd - TDS (Field Filtered)		Total Number of Containers:		Special Instructions/Note:			
Sample Identification <u>DUP-02</u> <u>DUP-02-FF</u> <u>DUP-03</u> <u>DUP-03-FF</u> <u>EB-01</u> <u>EB-02</u>		Sample Date <u>4-12-21</u> <u>1615</u> <u>1625</u> <u>1725</u> <u>1735</u> <u>1030</u> <u>1930</u>		Sample Time ↓ ↓ ↓ ↓ ↓ ↓ ↓		Matrix (W=Water, S=Soil, O=Other) Preservation Code: <u>SW</u> ↓ ↓ ↓ ↓ ↓ ↓ ↓		Field Filtered Sample (Yes or No) D N N D N X	
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:		Company:			
Relinquished by: <u>[Signature]</u>		Date Time: <u>4-13-21 1411</u>		Date Time: <u>4/14/21 900</u>		Company: <u>ETA P, A</u>			
Relinquished by:		Date Time:		Date Time:		Company:			
Relinquished by:		Date Time:		Date Time:		Company:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Company:			

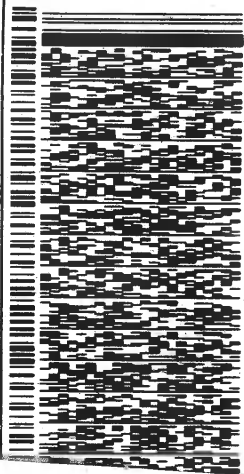


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DIMS: 25X14X14 IN

SA (850) 572-1067
PITTSBURGH LAB
BEFORE BILL
PA 15238
US

MERICA PITTSBURGH LAB
CHEERS 5 BEFORE BILL
PHA DR
BURGH PA 15238

DEPT.
REF.1



7 of 14
59 4219 4360
859 4219 4304
WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS
15238
PIT
PA-US

AGCA

Uncorrected temp
Thermometer ID

CF 0 Initials

PT-WI-SR-001 effective 11/8/18

RT 97
1 10:30 A
4360
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FZ

ORIGIN ID:PNSA (850) 572-1067
TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238
UNITED STATES US

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238
(850) 572-1067
US

DEPT.
REF.1



10 of 14
MPS# 7859 4219 4392
Metri# 7859 4219 4304
WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS
15238
PIT
PA-US

XH AGCA

Uncorrected temp
Thermometer ID

CF 0 Initials

PT-WI-SR-001 effective 11/8/18



180-119924 Waybill

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Do Not Lift Using This Tag

10:30
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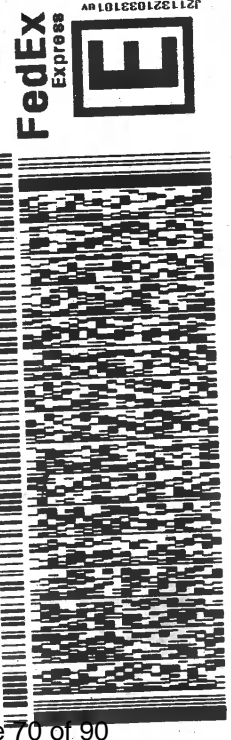
RT 97
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Part # 13820733 MADE IN USA 11/21

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SHIP DATE: 19APR21
ACTWT: 60.20 LB
DIM: 6992215/55F02201
DIMS: 25x14x14 IN
BILL THIRD PARTY
TESTAMERICA PITTSBURGH LAB
SEE CHECKS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

TESTAMERICA PITTSBURGH LAB
SEE CHECKS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238

(850) 572-1067
REF: (850) 572-1067
DEPT: INV1

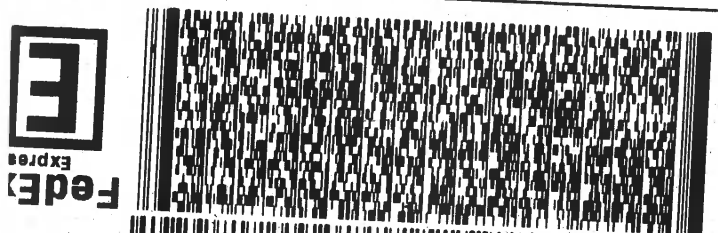


1 of 14
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XH AGCA
Uncorrected temp
Thermometer ID
PA-US
15238
PIT

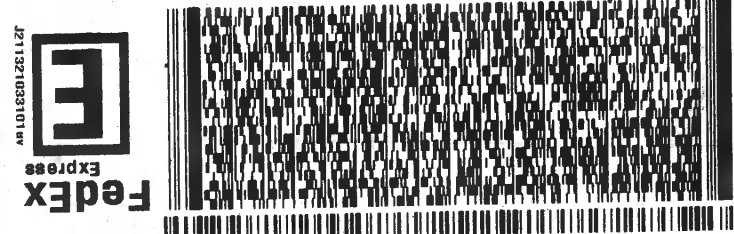
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PT-WI-SR-001 effective 11/8/18
WED - 14 APR 10:30A
PRIORITY OVERNIGHT
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PIT

5/26/2021

PITTSBURGH PA 15238
(850) 572-1067
REF: (850) 572-1067
DEPT: INV1
PITTSBURGH PA 15238
WED - 14 APR 10:30A
PRIORITY OVERNIGHT
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MPS# 7859 4219 4337
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Mstr# 7859 4219 4304
4 of 14
XH AGCA
Uncorrected temp
Thermometer ID
CF 0 Initials
PT-WI-SR-001 effective 11/8/18



SEE CHECKS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238
(850) 572-1067
REF: (850) 572-1067
DEPT: INV1
WED - 14 APR 10:30A
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MPS# 7859 4219 4315
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Mstr# 7859 4219 4304
2 of 14
XH AGCA
Uncorrected temp
Thermometer ID
CF 0 Initials
PT-WI-SR-001 effective 11/8/18



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Do Not Lift Using This Tag

Part # 156297455-88888

ORIGIN ID:PN5A (850) 572-1067

TESTAMERICA PITTSBURGH LAB
SEE CHECKS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

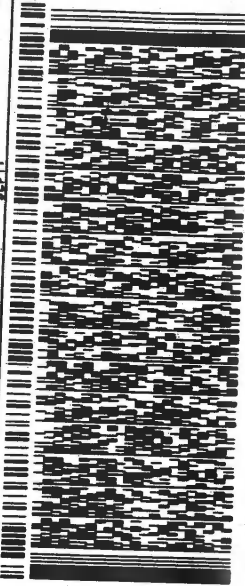
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ACT WT: 55 LB
CAD: 592215755C02201
DIMS: 25x14x14 IN
BILL THIRD PARTY

TO

TESTAMERICA PITTSBURGH LAB
SEE CHECKS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238

(850) 572-1067
INV#
REF#

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WED - 14 APR 10:30A
PRIORITY OVERNIGHT

6 of 14
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Mstr# 7859 4219 4304 0201

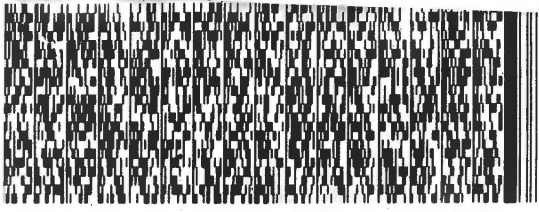
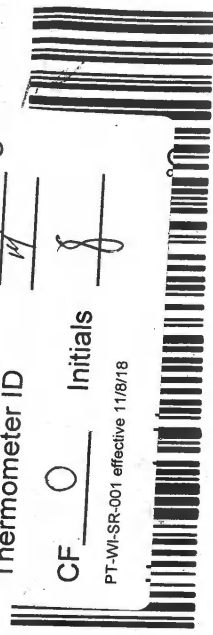
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Uncorrected temp
Thermometer ID

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CF 0 Initials

PT-WI-SR-001 effective 11/8/18



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14 of 14

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str# 7859 4219 4304

0201

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PRIORITY OVERNIGHT

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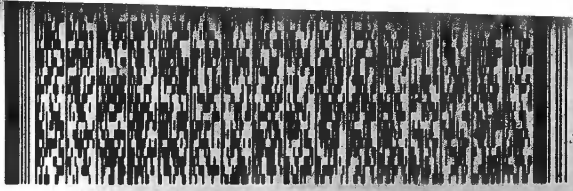
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CF 0 Initials

PT-WI-SR-001 effective 11/8/18

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12 of 14

MPS# 7859 4219 4418

Mstr# 7859 4219 4304

0201

WED - 14 APR 10:30A
PRIORITY OVERNIGHT

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XH AGCA

Uncorrected temp
Thermometer ID

CF 0 Initials

PT-WI-SR-001 effective 11/8/18

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Do Not Lift Using This Tag

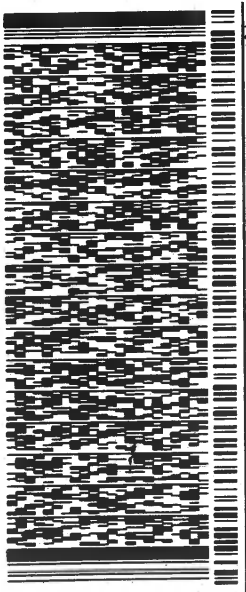
5/26/2021

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SHIP DATE: 19APR21
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SEE CHEERS 5 BEFORE BILL
CAD: 6992215/58F02201
301 ALPHA DR
PITTSBURGH, PA 15238
DIM3: 25x14x14 IN
BILL THIRD PARTY
UNITED STATES US

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238

(850) 572-1087
REF1

DEPT1



Page 72 of 101

8 of 14
MPS# 7859 4219 4370
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Met# 7859 4219 4304
0201
WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS 15238
PIT

XH AGCA
Uncorrected temp
Thermometer ID

CF 0 Initials [Signature]

PT-WI-SR-001 effective 1/16/18

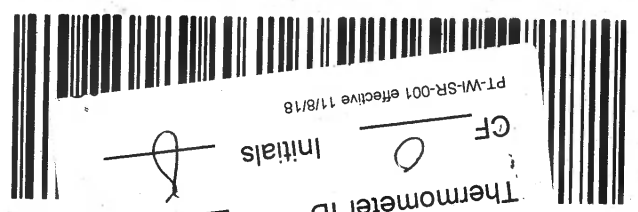


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5 of 14
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PT-WI-SR-001 effective 1/16/18



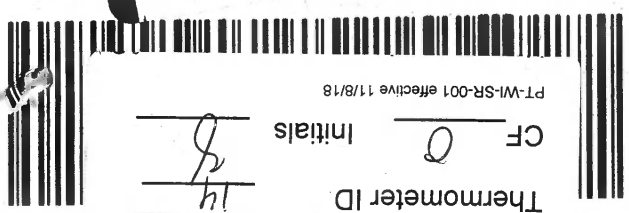
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PRIORITY OVERNIGHT
AHS 15238
PIT

97
1
10:30
4348
04.14
A

11 of 14
MPS# 7859 4219 4407
0263
Met# 7859 4219 4304
0201
XH AGCA
Uncorrected temp
Thermometer ID

CF 0 Initials [Signature]

PT-WI-SR-001 effective 1/16/18



WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS 15238
PIT



4211321038701

97
1
10:30
440
04.14
A

Do Not Lift Using This Tag

ORIGIN ID:PNSA (850) 572-1067

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 13APR21
ACTWGT: 62.00 LB
CAD: 6992215/96F02201
DIMS: 25x14x14 IN

BILL THIRD PARTY

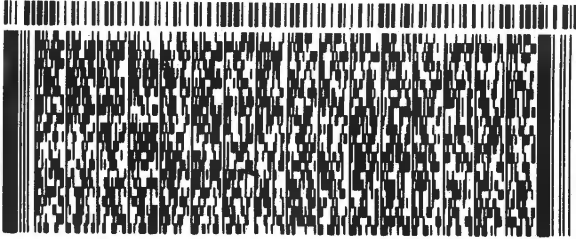
TO

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH PA 15238

(850) 572-1067

REF:

DEPT:



FedEx Express



AR 010500102610101

Part # 1582078347830755

3 of 14

MPS# 7859 4219 4326
0263

Mstr# 7859 4219 4304

0201

XH AGCA

Uncorrected temp
Thermometer ID

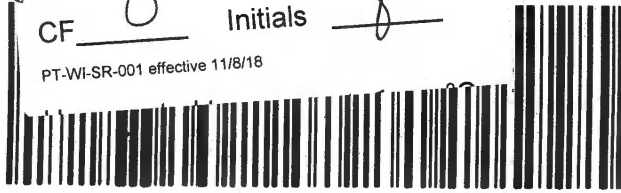
37 °C
17

PA-US

AHS
15238
PIT

CF 0 Initials 8

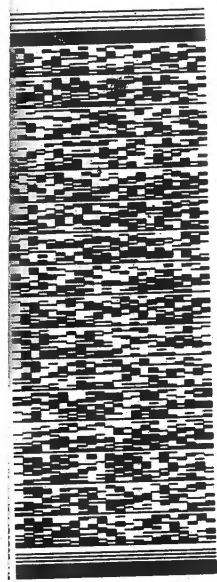
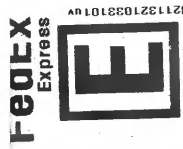
PT-WI-SR-001 effective 11/8/18



97

1
10:30

A
4326
04.14



WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS
15238
PIT

13 of 14

MPS# 7859 4219 4429
0263

Mstr# 7859 4219 4304

0201

XH AGCA

Uncorrected temp
Thermometer ID

37 °C
17

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18



WED - 14 APR 10:30A
PRIORITY OVERNIGHT
AHS
15238
PIT

9 of 14

MPS# 7859 4219 4361
0263

Mstr# 7859 4219 4304

0201

XH AGCA

Uncorrected temp
Thermometer ID

37 °C
17

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18



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

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-432157.5																																																																																																																																																																
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@Eurofins.com	State of Origin: Georgia	Page: Page 5 of 6																																																																																																																																																																
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-119924-2																																																																																																																																																																		
Address: 13715 Rider Trail North,		Job #: 180-119924-2																																																																																																																																																																		
City: Earth City		Analysis Requested																																																																																																																																																																		
State, Zip: MO, 63045		<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 (W=water, S=solid, O=wastewater, BT=BIOTISSUE, AS=AS)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>9320_Ra226/PreSep_0 Radium 228</th> <th>9315_Ra226/PreSep_21 Radium 226</th> <th>Radium 228</th> <th>9315_Ra226/FIELD_FLTRD Radium 226 (Field Filtered)</th> <th>9320_Ra226/FIELD_FLTRD Radium 228 (Field Filtered)</th> <th>Ra226Ra228_GFP/Combined Rad</th> <th>Field Filtered</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>SW-15-1.5" (180-119924-37)</td> <td>4/12/21</td> <td>15:35 Eastern</td> <td></td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>SW-15-1.5" FF (180-119924-38)</td> <td>4/12/21</td> <td>15:45 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>SW-16-1.5" (180-119924-39)</td> <td>4/12/21</td> <td>16:10 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>SW-16-1.5" FF (180-119924-40)</td> <td>4/12/21</td> <td>16:20 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>SW-17-1" (180-119924-41)</td> <td>4/12/21</td> <td>12:50 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>SW-17-1" FF (180-119924-42)</td> <td>4/12/21</td> <td>13:00 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>DUP-010 (180-119924-43)</td> <td>4/12/21</td> <td>11:40 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>DUP-01-FF (180-119924-44)</td> <td>4/12/21</td> <td>11:55 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>DUP-02 (180-119924-45)</td> <td>4/12/21</td> <td>16:15 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td>2</td> <td></td> </tr> </tbody> </table>			Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, O=wastewater, BT=BIOTISSUE, AS=AS)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra226/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226	Radium 228	9315_Ra226/FIELD_FLTRD Radium 226 (Field Filtered)	9320_Ra226/FIELD_FLTRD Radium 228 (Field Filtered)	Ra226Ra228_GFP/Combined Rad	Field Filtered	Total Number of Containers	Special Instructions/Note:	SW-15-1.5" (180-119924-37)	4/12/21	15:35 Eastern		Water	X	X	X							2		SW-15-1.5" FF (180-119924-38)	4/12/21	15:45 Eastern		Water			X			X	X			2		SW-16-1.5" (180-119924-39)	4/12/21	16:10 Eastern		Water			X							2		SW-16-1.5" FF (180-119924-40)	4/12/21	16:20 Eastern		Water			X			X	X			2		SW-17-1" (180-119924-41)	4/12/21	12:50 Eastern		Water			X							2		SW-17-1" FF (180-119924-42)	4/12/21	13:00 Eastern		Water			X			X	X			2		DUP-010 (180-119924-43)	4/12/21	11:40 Eastern		Water			X			X	X			2		DUP-01-FF (180-119924-44)	4/12/21	11:55 Eastern		Water			X			X	X			2		DUP-02 (180-119924-45)	4/12/21	16:15 Eastern		Water			X			X	X			2	
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, O=wastewater, BT=BIOTISSUE, AS=AS)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra226/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226	Radium 228	9315_Ra226/FIELD_FLTRD Radium 226 (Field Filtered)	9320_Ra226/FIELD_FLTRD Radium 228 (Field Filtered)	Ra226Ra228_GFP/Combined Rad	Field Filtered	Total Number of Containers	Special Instructions/Note:																																																																																																																																																					
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SW-16-1.5" (180-119924-39)	4/12/21	16:10 Eastern		Water			X							2																																																																																																																																																						
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SW-17-1" (180-119924-41)	4/12/21	12:50 Eastern		Water			X							2																																																																																																																																																						
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DUP-02 (180-119924-45)	4/12/21	16:15 Eastern		Water			X			X	X			2																																																																																																																																																						
Due Date Requested: 4/27/2021		TAT Requested (days):																																																																																																																																																																		
PO #:		WO #:																																																																																																																																																																		
Project #: 18020186		Project Name: Plant Watson Surfacewater																																																																																																																																																																		
Site:		Site:																																																																																																																																																																		
Sample Identification - Client ID (Lab ID)		Preservation Code:																																																																																																																																																																		
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Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/analyte being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____
 Relinquished by: _____ Date: 4/12/21
 Relinquished by: **FEDEX** Date: 4/12/21
 Relinquished by: _____ Date: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

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: **FEDEX** Date/Time: _____
 Received by: _____ Date/Time: 4/12/21 0840
 Received by: _____ Date/Time: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-119924-2

Login Number: 119924

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Abernathy, Eric

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-119924-2

Login Number: 119924

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/17/21 10:16 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-119924-2

Login Number: 119924

List Number: 3

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/17/21 10:20 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-119924-2

Login Number: 119924

List Number: 4

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/17/21 10:23 AM

Question	Answer	Comment
Radioactivity wasn't checked or is < /= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is < 6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-119924-2

Login Number: 119924

List Number: 5

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/17/21 10:26 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-119924-2

Login Number: 119924

List Number: 6

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/17/21 10:28 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-119924-2

Login Number: 119924

List Number: 7

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/17/21 10:34 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-119924-2

Login Number: 119924

List Number: 8

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/17/21 10:36 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-119924-2

Login Number: 119924

List Number: 9

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/17/21 10:39 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-119924-2

Login Number: 119924

List Number: 10

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/17/21 10:43 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-119924-2

Login Number: 119924

List Number: 11

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/17/21 10:48 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Product Name: Low-Flow System

Date: 2021-03-08 12:46:41

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 46 ft

Pump placement from TOC 36.1 ft

Well Information:

Well ID APMW-1R
Well diameter 2 in
Well Total Depth 38.6 ft
Screen Length 10 ft
Depth to Water 25.45 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.6853175 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 32 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	12:22:40	3603.02	20.84	6.40	8116.44	0.89	25.70	0.12	-440.60
Last 5	12:27:40	3903.02	20.91	6.40	8110.80	0.90	25.70	0.12	-447.99
Last 5	12:32:41	4204.02	20.93	6.41	8099.29	0.90	25.70	0.12	-453.07
Last 5	12:37:41	4504.02	20.96	6.40	8125.76	0.92	25.70	0.11	-458.11
Last 5	12:42:41	4804.02	21.10	6.40	8106.73	0.95	25.70	0.11	-462.70
Variance 0			0.01	0.01	-11.51			-0.00	-5.08
Variance 1			0.04	-0.01	26.47			-0.01	-5.04
Variance 2			0.14	-0.00	-19.03			-0.00	-4.59

Notes

Sample time @ 1245. Sunny 70. DUP-01@ fake time 1145.

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-08 13:53:37

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 45 ft

Pump placement from TOC 37.9 ft

Well Information:

Well ID APMW-2
Well diameter 2 in
Well Total Depth 42.9 ft
Screen Length 10 ft
Depth to Water 22.12 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.680854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.24 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	13:36:46	300.02	20.30	5.89	7520.68	0.70	22.14	0.40	-162.28
Last 5	13:41:46	600.02	20.35	5.95	7542.20	0.56	22.14	0.26	-168.17
Last 5	13:46:46	900.02	20.35	5.96	7559.46	0.52	22.14	0.22	-171.25
Last 5	13:51:49	1203.02	20.39	5.97	7553.99	0.50	22.14	0.20	-173.50
Last 5									
Variance 0			0.04	0.06	21.51			-0.15	-5.88
Variance 1			0.00	0.01	17.26			-0.04	-3.08
Variance 2			0.04	0.00	-5.46			-0.02	-2.26

Notes

Sample time @ 1355. Sunny 70.

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-08 18:13:33

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 170 ft

Pump placement from TOC 157.8 ft

Well Information:

Well ID APMW-2D
Well diameter 2 in
Well Total Depth 162.8 ft
Screen Length 10 ft
Depth to Water 16.10 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.8487819 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 88 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	17:49:35	12031.02	19.67	7.64	203.94	1.94	15.45	0.13	-196.92
Last 5	17:54:37	12333.02	19.66	7.66	203.35	1.85	15.45	0.13	-197.57
Last 5	17:59:38	12634.02	19.65	7.63	201.26	1.79	15.45	0.12	-196.97
Last 5	18:04:38	12934.02	19.64	7.63	201.62	1.77	15.45	0.13	-195.93
Last 5	18:09:45	13241.02	19.63	7.64	201.66	1.70	15.45	0.12	-196.95
Variance 0			-0.02	-0.03	-2.09			-0.00	0.61
Variance 1			-0.01	-0.00	0.36			0.00	1.04
Variance 2			-0.00	0.01	0.04			-0.00	-1.02

Notes

Sample time @ 1815. Sunny 65. EB-01@ 1415. FB-01@ 1745.

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-09 07:50:22

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 40 ft

Pump placement from TOC 31.6 ft

Well Information:

Well ID APMW-3
Well diameter 2 in
Well Total Depth 36.6 ft
Screen Length 10 ft
Depth to Water 9.43 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.6585369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.24 in
Total Volume Pumped 14 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	07:21:52	900.02	18.92	6.41	30557.86	0.45	9.45	0.23	12.42
Last 5	07:26:52	1200.02	19.01	6.44	30409.51	0.42	9.45	0.21	-1.31
Last 5	07:31:52	1500.02	19.06	6.46	30256.72	0.48	9.45	0.20	-9.24
Last 5	07:36:52	1800.02	19.02	6.47	30180.91	0.47	9.45	0.19	-14.57
Last 5	07:41:52	2100.02	19.10	6.48	30163.75	0.42	9.45	0.18	-19.15
Variance 0			0.04	0.02	-152.79			-0.01	-7.93
Variance 1			-0.03	0.01	-75.81			-0.01	-5.33
Variance 2			0.08	0.01	-17.16			-0.01	-4.59

Notes

Sample time @ 0750. Sunny 55.

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-09 08:40:58

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 100 ft

Pump placement from TOC 90.6 ft

Well Information:

Well ID APMW-3D
Well diameter 2 in
Well Total Depth 93.1 ft
Screen Length 5 ft
Depth to Water 8.00 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.5363423 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	08:15:56	300.02	18.65	7.13	451.26	2.48	9.87	0.29	-103.25
Last 5	08:20:56	600.02	18.69	7.07	430.38	2.30	10.22	0.23	-107.27
Last 5	08:25:56	900.02	18.72	7.03	392.24	1.10	10.31	0.21	-113.56
Last 5	08:30:56	1200.02	18.84	7.02	379.17	1.08	10.37	0.19	-116.72
Last 5	08:36:01	1505.02	18.91	7.02	393.78	1.05	10.40	0.18	-117.56
Variance 0			0.03	-0.04	-38.15			-0.02	-6.29
Variance 1			0.11	-0.01	-13.06			-0.02	-3.16
Variance 2			0.08	-0.01	14.61			-0.01	-0.84

Notes

Sample time @ 0840. Sunny 65. DUP-02@ fake time 0740. EB-02@ 0808.

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-09 09:46:22

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 105 ft

Pump placement from TOC 95.3 ft

Well Information:

Well ID APMW-4D
Well diameter 2 in
Well Total Depth 100.3 ft
Screen Length 10 ft
Depth to Water 11.72 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.5586594 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.16 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	09:29:01	300.02	18.84	6.77	26253.36	0.89	11.90	0.29	-133.71
Last 5	09:34:01	600.02	18.93	6.83	26229.64	0.51	11.90	0.22	-144.68
Last 5	09:39:01	900.02	18.97	6.84	26235.96	0.50	11.90	0.20	-145.79
Last 5	09:44:02	1201.02	18.97	6.83	26251.55	0.51	11.90	0.18	-141.57
Last 5									
Variance 0			0.10	0.06	-23.72			-0.07	-10.97
Variance 1			0.03	0.01	6.32			-0.03	-1.11
Variance 2			0.00	-0.01	15.59			-0.02	4.22

Notes

Sample time @ 0945. Sunny 65.

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-09 10:48:46

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 45 ft

Pump placement from TOC 32.05 ft

Well Information:

Well ID APMW-4
Well diameter 2 in
Well Total Depth 37.05 ft
Screen Length 10 ft
Depth to Water 13.37 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.680854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 14 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	10:21:57	900.03	19.77	6.69	10106.18	0.46	13.37	0.19	-262.11
Last 5	10:26:57	1200.02	19.79	6.48	10075.90	0.44	13.37	0.18	-278.23
Last 5	10:31:57	1500.02	19.81	6.31	10080.38	0.48	13.37	0.17	-298.48
Last 5	10:36:57	1800.03	19.93	6.28	10069.96	0.50	13.37	0.17	-305.56
Last 5	10:41:57	2100.02	19.95	6.27	10066.91	0.51	13.37	0.16	-308.06
Variance 0			0.03	-0.17	4.48			-0.00	-20.25
Variance 1			0.12	-0.03	-10.42			-0.00	-7.08
Variance 2			0.02	-0.00	-3.05			-0.00	-2.50

Notes

Sample time @ 1045. Sunny 68.

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-09 12:05:39

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 45 ft

Pump placement from TOC 31.6 ft

Well Information:

Well ID APMW-5
Well diameter 2 in
Well Total Depth 36.6 ft
Screen Length 10 ft
Depth to Water 7.95 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.680854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.36 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	11:40:20	300.03	20.23	6.29	25573.71	0.63	7.98	0.34	-85.11
Last 5	11:45:20	600.03	20.30	6.31	25646.31	0.58	7.98	0.26	-91.74
Last 5	11:50:20	900.03	20.30	6.32	25723.30	0.54	7.98	0.23	-93.71
Last 5	11:55:20	1200.03	20.26	6.32	25735.99	0.49	7.98	0.21	-92.97
Last 5									
Variance 0			0.08	0.02	72.60			-0.08	-6.63
Variance 1			-0.00	0.01	77.00			-0.03	-1.97
Variance 2			-0.04	0.00	12.69			-0.02	0.74

Notes

Sample time @ 1200. Sunny 70. FB-02@ 1150.

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-09 17:33:25

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 115 ft

Pump placement from TOC 108.5 ft

Well Information:

Well ID APMW-5D
Well diameter 2 in
Well Total Depth 111.0 ft
Screen Length 5 ft
Depth to Water 8.75 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.6032937 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 48.25 in
Total Volume Pumped 114 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	17:04:57	15955.04	18.86	6.63	206.14	4.55	12.77	0.31	-76.78
Last 5	17:09:57	16255.03	18.81	6.63	205.30	4.52	12.77	0.32	-77.11
Last 5	17:15:14	16572.03	18.78	6.63	205.79	4.50	12.77	0.32	-75.11
Last 5	17:20:14	16872.03	18.77	6.62	204.96	4.51	12.77	0.32	-76.24
Last 5	17:25:14	17172.03	18.79	6.62	203.05	4.51	12.77	0.33	-75.15
Variance 0			-0.03	-0.00	0.50			0.00	2.00
Variance 1			-0.01	-0.00	-0.84			0.00	-1.13
Variance 2			0.02	0.00	-1.91			0.00	1.08

Notes

Sample time @ 1735. Sunny 65.

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-10 07:27:54

Project Information:

Operator Name Philip Evans
Company Name RDH Environmental
Project Name Plant Watson CCR
Site Name Plant Watson
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 110 ft

Pump placement from TOC 103.4 ft

Well Information:

Well ID APMW-6D
Well diameter 2 in
Well Total Depth 105.9 ft
Screen Length 5 ft
Depth to Water 8.42 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.5809765 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 15.48 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	07:02:48	300.03	18.70	6.76	235.71	0.53	9.56	0.20	-125.54
Last 5	07:07:48	600.03	18.74	6.79	234.05	0.50	9.60	0.19	-116.89
Last 5	07:12:48	900.03	18.78	6.80	232.94	0.52	9.66	0.18	-110.40
Last 5	07:17:48	1200.03	18.75	6.81	229.89	0.55	9.69	0.18	-105.68
Last 5	07:22:48	1500.03	18.83	6.81	225.75	0.66	9.71	0.17	-102.69
Variance 0			0.03	0.01	-1.11			-0.01	6.49
Variance 1			-0.03	0.00	-3.05			-0.00	4.73
Variance 2			0.08	-0.00	-4.14			-0.01	2.98

Notes

Sample time @ 0730. PC 65. EB-03@ 0650.

Grab Samples

Low-Flow Test Report:

Test Date / Time: 3/8/2021 10:46:57 AM

Project: Plant Watson CCR (3)

Operator Name: Trevor braddock

Location Name: Apmw-14 Well Diameter: 2 in Casing Type: Pvc Screen Length: 5 ft Top of Screen: 16.5 ft Total Depth: 21.5 ft Initial Depth to Water: 4.7 ft	Pump Type: PP Tubing Type: Pe Pump Intake From TOC: 19.5 ft Estimated Total Volume Pumped: 18000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: -0.3 ft	Instrument Used: Aqua TROLL 400 Serial Number: 736137
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Test Notes:

Sample time 1140

Weather Conditions:

Sunny 66

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/8/2021 10:46 AM	00:00	5.98 pH	21.15 °C	9,560.1 µS/cm	0.14 mg/L	510.00 NTU	-19.2 mV	3.70 in	400.00 ml/min
3/8/2021 10:51 AM	05:00	6.00 pH	21.21 °C	9,625.7 µS/cm	0.14 mg/L	11.00 NTU	-60.7 mV	3.68 in	400.00 ml/min
3/8/2021 10:56 AM	10:00	6.01 pH	21.33 °C	9,646.9 µS/cm	0.10 mg/L	7.41 NTU	-63.2 mV	3.62 in	400.00 ml/min
3/8/2021 11:01 AM	15:00	6.01 pH	21.37 °C	9,682.8 µS/cm	0.09 mg/L	5.45 NTU	-65.4 mV	3.59 in	400.00 ml/min
3/8/2021 11:06 AM	20:00	6.01 pH	21.42 °C	9,751.2 µS/cm	0.08 mg/L	2.09 NTU	-64.7 mV	3.55 in	400.00 ml/min
3/8/2021 11:11 AM	25:00	6.00 pH	21.42 °C	9,762.4 µS/cm	0.08 mg/L	5.64 NTU	-64.8 mV	3.52 in	400.00 ml/min
3/8/2021 11:16 AM	30:00	6.01 pH	21.43 °C	9,762.2 µS/cm	0.08 mg/L	4.06 NTU	-64.4 mV	3.51 in	400.00 ml/min
3/8/2021 11:21 AM	35:00	6.00 pH	21.47 °C	9,783.0 µS/cm	0.07 mg/L	1.31 NTU	-63.6 mV	3.45 in	400.00 ml/min
3/8/2021 11:26 AM	40:00	6.00 pH	21.51 °C	9,768.8 µS/cm	0.07 mg/L	1.60 NTU	-62.2 mV	3.42 in	400.00 ml/min
3/8/2021 11:31 AM	45:00	6.00 pH	21.51 °C	9,813.6 µS/cm	0.07 mg/L	1.87 NTU	-62.0 mV	3.40 in	400.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/8/2021 12:28:28 PM

Project: Plant Watson CCR

Operator Name: Trevor braddock

Location Name: Apmw-16 Well Diameter: 2 in Casing Type: Pvc Screen Length: 5 ft Top of Screen: 19.5 ft Total Depth: 24.5 ft Initial Depth to Water: 2.92 ft	Pump Type: PP Tubing Type: Pe Pump Intake From TOC: 22 ft Estimated Total Volume Pumped: 24000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: -0.2 ft	Instrument Used: Aqua TROLL 400 Serial Number: 736137
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Test Notes:

Sample time 1330

Weather Conditions:

Sunny 70

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/8/2021 12:28 PM	00:00	6.50 pH	27.88 °C	7,533.4 µS/cm	0.57 mg/L	4.26 NTU	-295.8 mV	2.92 in	400.00 ml/min
3/8/2021 12:33 PM	05:00	6.48 pH	21.01 °C	8,771.6 µS/cm	0.13 mg/L	10.90 NTU	-341.7 mV	2.92 in	400.00 ml/min
3/8/2021 12:38 PM	10:00	6.49 pH	20.75 °C	8,800.9 µS/cm	0.12 mg/L	7.13 NTU	-356.9 mV	2.92 in	400.00 ml/min
3/8/2021 12:43 PM	15:00	6.49 pH	20.58 °C	8,833.7 µS/cm	0.11 mg/L	22.80 NTU	-362.5 mV	2.92 in	400.00 ml/min
3/8/2021 12:48 PM	20:00	6.50 pH	20.58 °C	8,822.7 µS/cm	0.11 mg/L	21.60 NTU	-367.6 mV	2.92 in	400.00 ml/min
3/8/2021 12:53 PM	25:00	6.50 pH	20.57 °C	8,848.5 µS/cm	0.11 mg/L	6.62 NTU	-370.5 mV	2.92 in	400.00 ml/min
3/8/2021 12:58 PM	30:00	6.49 pH	20.57 °C	8,850.0 µS/cm	0.10 mg/L	3.76 NTU	-372.5 mV	2.92 in	400.00 ml/min
3/8/2021 1:03 PM	35:00	6.49 pH	20.57 °C	8,830.0 µS/cm	0.10 mg/L	4.05 NTU	-372.9 mV	2.92 in	400.00 ml/min
3/8/2021 1:08 PM	40:00	6.49 pH	20.61 °C	8,821.3 µS/cm	0.10 mg/L	3.03 NTU	-373.4 mV	2.90 in	400.00 ml/min
3/8/2021 1:13 PM	45:00	6.48 pH	20.77 °C	8,799.0 µS/cm	0.10 mg/L	5.17 NTU	-373.9 mV	2.88 in	400.00 ml/min
3/8/2021 1:18 PM	50:00	6.48 pH	20.77 °C	8,786.3 µS/cm	0.10 mg/L	2.12 NTU	-373.9 mV	2.88 in	400.00 ml/min
3/8/2021 1:23 PM	55:00	6.48 pH	20.75 °C	8,806.4 µS/cm	0.10 mg/L	2.15 NTU	-373.8 mV	2.88 in	400.00 ml/min
3/8/2021 1:28 PM	01:00:00	6.48 pH	20.70 °C	8,805.3 µS/cm	0.10 mg/L	2.11 NTU	-373.6 mV	2.88 in	400.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/8/2021 2:01:05 PM

Project: Plant Watson CCR (2)

Operator Name: Trevor braddock

Location Name: Apmw-15 Well Diameter: 2 in Casing Type: Pvc Screen Length: 5 ft Top of Screen: 20.5 ft Total Depth: 25.5 ft Initial Depth to Water: 2.82 ft	Pump Type: PP Tubing Type: Pe Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 20000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 736137
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Test Notes:

Sample time 1455

Weather Conditions:

Sunny 72

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/8/2021 2:01 PM	00:00	7.11 pH	24.48 °C	7,994.1 µS/cm	1.56 mg/L	5.88 NTU	-294.2 mV	2.82 in	400.00 ml/min
3/8/2021 2:06 PM	05:00	6.38 pH	20.63 °C	8,796.6 µS/cm	0.15 mg/L	6.50 NTU	-347.3 mV	2.90 in	400.00 ml/min
3/8/2021 2:11 PM	10:00	6.40 pH	20.48 °C	8,833.4 µS/cm	0.13 mg/L	8.43 NTU	-340.7 mV	2.90 in	400.00 ml/min
3/8/2021 2:16 PM	15:00	6.41 pH	20.57 °C	8,830.2 µS/cm	0.12 mg/L	7.13 NTU	-345.2 mV	2.90 in	400.00 ml/min
3/8/2021 2:21 PM	20:00	6.42 pH	20.51 °C	8,901.6 µS/cm	0.11 mg/L	8.48 NTU	-363.8 mV	2.90 in	400.00 ml/min
3/8/2021 2:26 PM	25:00	6.42 pH	20.52 °C	8,954.3 µS/cm	0.11 mg/L	4.35 NTU	-366.3 mV	2.90 in	400.00 ml/min
3/8/2021 2:31 PM	30:00	6.41 pH	20.53 °C	8,975.8 µS/cm	0.11 mg/L	3.64 NTU	-366.2 mV	2.90 in	400.00 ml/min
3/8/2021 2:36 PM	35:00	6.41 pH	20.53 °C	8,995.7 µS/cm	0.11 mg/L	2.37 NTU	-365.9 mV	2.90 in	400.00 ml/min
3/8/2021 2:41 PM	40:00	6.41 pH	20.53 °C	9,003.5 µS/cm	0.11 mg/L	1.42 NTU	-366.7 mV	2.90 in	400.00 ml/min
3/8/2021 2:46 PM	45:00	6.41 pH	20.52 °C	9,025.5 µS/cm	0.11 mg/L	2.02 NTU	-367.2 mV	2.90 in	400.00 ml/min
3/8/2021 2:51 PM	50:00	6.41 pH	20.57 °C	9,030.6 µS/cm	0.11 mg/L	1.14 NTU	-368.1 mV	2.90 in	400.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/8/2021 3:17:38 PM

Project: Plant watson ccr (3)

Operator Name: Trevor braddock

Location Name: Apmw-13 Well Diameter: 2 in Casing Type: Pvc Screen Length: 5 ft Top of Screen: 16.5 ft Total Depth: 21.5 ft Initial Depth to Water: 2.78 ft	Pump Type: Pp Tubing Type: Pe Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 40000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 400 Serial Number: 736137
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Test Notes:

SAMPLE time 1700

Weather Conditions:

Sunny 70

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.2	
3/8/2021 3:17 PM	00:00	6.44 pH	22.45 °C	5,670.8 µS/cm	0.21 mg/L	21.30 NTU	-209.3 mV	2.78 ft	400.00 ml/min
3/8/2021 3:22 PM	05:00	6.15 pH	21.13 °C	5,871.6 µS/cm	0.11 mg/L	397.00 NTU	-206.3 mV	2.78 ft	400.00 ml/min
3/8/2021 3:27 PM	10:00	6.09 pH	21.23 °C	5,889.7 µS/cm	0.08 mg/L	58.00 NTU	-205.6 mV	2.78 ft	400.00 ml/min
3/8/2021 3:32 PM	15:00	6.06 pH	21.29 °C	5,912.6 µS/cm	0.08 mg/L	35.00 NTU	-207.0 mV	2.82 ft	400.00 ml/min
3/8/2021 3:37 PM	20:00	6.04 pH	21.24 °C	5,925.0 µS/cm	0.07 mg/L	34.40 NTU	-206.5 mV	2.86 ft	400.00 ml/min
3/8/2021 3:42 PM	25:00	6.02 pH	21.37 °C	5,944.3 µS/cm	0.07 mg/L	35.30 NTU	-215.8 mV	2.87 ft	400.00 ml/min
3/8/2021 3:47 PM	30:00	6.01 pH	21.25 °C	5,965.6 µS/cm	0.06 mg/L	18.50 NTU	-216.1 mV	2.88 ft	400.00 ml/min
3/8/2021 3:52 PM	35:00	6.00 pH	21.25 °C	5,983.3 µS/cm	0.06 mg/L	14.70 NTU	-216.8 mV	2.90 ft	400.00 ml/min
3/8/2021 3:57 PM	40:00	6.00 pH	21.22 °C	6,001.4 µS/cm	0.06 mg/L	14.10 NTU	-217.6 mV	2.90 ft	400.00 ml/min
3/8/2021 4:02 PM	45:00	6.00 pH	21.22 °C	6,032.7 µS/cm	0.05 mg/L	11.90 NTU	-218.2 mV	2.90 ft	400.00 ml/min
3/8/2021 4:07 PM	50:00	5.99 pH	21.24 °C	6,041.9 µS/cm	0.05 mg/L	9.45 NTU	-218.9 mV	2.90 ft	400.00 ml/min
3/8/2021 4:12 PM	55:00	5.99 pH	21.24 °C	6,026.9 µS/cm	0.05 mg/L	10.40 NTU	-219.8 mV	2.90 ft	400.00 ml/min
3/8/2021 4:17 PM	01:00:00	5.99 pH	21.22 °C	6,061.5 µS/cm	0.05 mg/L	7.79 NTU	-221.0 mV	2.90 ft	400.00 ml/min

3/8/2021 4:22 PM	01:05:00	5.99 pH	21.28 °C	6,063.3 μ S/cm	0.05 mg/L	9.58 NTU	-221.8 mV	2.90 ft	400.00 ml/min
3/8/2021 4:27 PM	01:10:00	5.98 pH	21.24 °C	6,086.6 μ S/cm	0.05 mg/L	5.78 NTU	-223.4 mV	2.90 ft	400.00 ml/min
3/8/2021 4:32 PM	01:15:00	5.98 pH	21.24 °C	6,083.0 μ S/cm	0.05 mg/L	6.56 NTU	-225.0 mV	2.90 ft	400.00 ml/min
3/8/2021 4:37 PM	01:20:00	5.98 pH	21.24 °C	6,102.1 μ S/cm	0.05 mg/L	5.47 NTU	-226.8 mV	2.90 ft	400.00 ml/min
3/8/2021 4:42 PM	01:25:00	5.98 pH	21.21 °C	6,110.3 μ S/cm	0.05 mg/L	5.22 NTU	-228.7 mV	2.90 ft	400.00 ml/min
3/8/2021 4:47 PM	01:30:00	5.98 pH	21.15 °C	6,139.9 μ S/cm	0.05 mg/L	4.75 NTU	-230.8 mV	2.90 ft	400.00 ml/min
3/8/2021 4:52 PM	01:35:00	5.98 pH	21.19 °C	6,129.9 μ S/cm	0.05 mg/L	4.50 NTU	-233.2 mV	2.90 ft	400.00 ml/min
3/8/2021 4:57 PM	01:40:00	5.97 pH	21.17 °C	6,137.6 μ S/cm	0.05 mg/L	4.42 NTU	-235.6 mV	2.90 ft	400.00 ml/min

Samples

Sample ID:	Description:
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Product Name: Low-Flow System

Date: 2021-03-08 12:33:08

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Watson CCR
Site Name Plant Watson CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PO
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 215 ft

Pump placement from TOC 203 ft

Well Information:

Well ID APMW-10d
Well diameter 2 in
Well Total Depth 206.4 ft
Screen Length 5 ft
Depth to Water 14.91 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 1.049636 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.4 in
Total Volume Pumped 20 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	12:10:57	1800.03	22.67	9.34	265.15	5.36	15.30	0.24	-82.86
Last 5	12:15:57	2100.02	22.80	9.35	266.57	5.20	15.30	0.22	-84.52
Last 5	12:20:57	2400.02	22.85	9.36	266.42	5.23	15.30	0.22	-85.56
Last 5	12:25:57	2700.02	22.93	9.37	266.65	5.32	15.30	0.21	-86.45
Last 5	12:30:57	3000.02	22.94	9.38	265.11	5.45	15.30	0.21	-86.83
Variance 0			0.04	0.01	-0.16			-0.00	-1.04
Variance 1			0.08	0.01	0.23			-0.00	-0.90
Variance 2			0.01	0.01	-1.54			-0.01	-0.38

Notes

Sample@1232, Sunny 66

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-08 13:18:42

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Watson CCR
Site Name Plant Watson CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 40 ft

Pump placement from TOC 28 ft

Well Information:

Well ID APMW-10
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 21.03 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.6585369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.03 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	12:56:37	300.03	22.54	7.53	3574.60	1.07	21.05	0.77	-36.42
Last 5	13:01:37	600.02	22.64	7.57	3584.53	0.79	21.05	0.62	-42.74
Last 5	13:06:37	900.03	22.67	7.58	3597.89	0.61	21.05	0.42	-47.87
Last 5	13:11:37	1200.02	22.67	7.59	3626.08	0.55	21.05	0.39	-52.47
Last 5	13:16:37	1500.03	22.60	7.61	3664.59	0.47	21.05	0.33	-56.94
Variance 0			0.03	0.01	13.36			-0.20	-5.12
Variance 1			-0.00	0.01	28.20			-0.03	-4.60
Variance 2			-0.07	0.02	38.50			-0.06	-4.47

Notes

Sample @1318, Sunny 70

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-08 14:14:41

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Watson CCR
Site Name Plant Watson CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 50 ft

Pump placement from TOC 37.5 ft

Well Information:

Well ID APMW-9
Well diameter 2 in
Well Total Depth 42.5 ft
Screen Length 10 ft
Depth to Water 23.47 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7031711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.03 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	13:53:25	600.03	23.04	6.94	10088.55	0.77	23.50	0.25	0.93
Last 5	13:58:25	900.02	23.30	7.03	10080.86	0.73	23.50	0.22	1.25
Last 5	14:03:25	1200.02	23.45	7.14	10088.44	0.68	23.50	0.21	2.81
Last 5	14:08:25	1500.02	23.52	7.03	10075.32	0.59	23.50	0.21	4.40
Last 5	14:13:25	1800.03	23.49	7.00	10057.55	0.55	23.50	0.20	5.83
Variance 0			0.15	0.11	7.57			-0.01	1.56
Variance 1			0.07	-0.10	-13.12			-0.01	1.58
Variance 2			-0.02	-0.03	-17.76			-0.00	1.44

Notes

Sample @1414, Sunny 70

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-09 08:59:56

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Watson CCR
Site Name Plant Watson CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 50 ft

Pump placement from TOC 37.8 ft

Well Information:

Well ID APMW-8
Well diameter 2 in
Well Total Depth 42.8 ft
Screen Length 10 ft
Depth to Water 22.8 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7031711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	08:38:28	1500.03	20.31	6.71	13246.53	1.94	23.00	0.19	-6.17
Last 5	08:43:28	1800.03	20.44	6.72	13301.51	1.88	23.00	0.18	-15.92
Last 5	08:48:28	2100.02	20.62	6.73	13255.54	1.75	23.00	0.17	-22.94
Last 5	08:53:28	2400.02	20.53	6.73	13269.52	1.77	23.00	0.17	-28.24
Last 5	08:58:28	2700.03	20.55	6.74	13307.41	1.64	23.00	0.17	-32.43
Variance 0			0.18	0.01	-45.97			-0.01	-7.02
Variance 1			-0.09	0.01	13.98			-0.00	-5.30
Variance 2			0.02	0.01	37.89			-0.00	-4.19

Notes

Sample @0859, sunny 52

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-09 09:40:42

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Watson CCR
Site Name Plant Watson CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 95 ft

Pump placement from TOC 87.5 ft

Well Information:

Well ID APMW-8d
Well diameter 2 in
Well Total Depth 92.5 ft
Screen Length 10 ft
Depth to Water 20.89 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.9040251 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	09:24:09	300.02	21.37	7.07	288.76	1.99	20.91	0.31	-69.48
Last 5	09:29:09	600.03	21.46	7.08	286.12	1.51	20.91	0.19	-78.55
Last 5	09:34:09	900.04	21.47	7.10	284.56	1.63	20.91	0.15	-84.69
Last 5	09:39:09	1200.03	21.46	7.10	283.44	1.43	20.91	0.14	-87.61
Last 5									
Variance 0			0.09	0.00	-2.64			-0.13	-9.07
Variance 1			0.00	0.02	-1.57			-0.03	-6.13
Variance 2			-0.00	0.00	-1.12			-0.01	-2.92

Notes

Sample @0940, Sunny 60

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-09 11:02:10

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Watson CCR
Site Name Plant Watson CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 40 ft

Pump placement from TOC 32.4 ft

Well Information:

Well ID APMW-7
Well diameter 2 in
Well Total Depth 37.4 ft
Screen Length 10 ft
Depth to Water 12.52 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.6585369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.04 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	10:41:10	2400.03	22.04	6.38	15558.66	0.53	12.95	0.10	-188.59
Last 5	10:46:10	2700.03	21.91	6.38	15549.89	0.58	12.95	0.10	-193.59
Last 5	10:51:10	3000.03	22.00	6.38	15604.04	0.55	12.95	0.10	-199.31
Last 5	10:56:10	3300.03	22.03	6.38	15585.30	0.49	12.95	0.10	-203.61
Last 5	11:01:10	3600.03	22.04	6.39	15552.58	0.63	12.95	0.10	-208.67
Variance 0			0.08	-0.00	54.15			0.00	-5.72
Variance 1			0.03	-0.00	-18.73			-0.00	-4.30
Variance 2			0.02	0.00	-32.73			0.00	-5.05

Notes

Sample @1101, Sunny 66

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-09 12:09:01

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Watson CCR
Site Name Plant Watson CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 46.8 ft

Well Information:

Well ID APMW-6r
Well diameter 2 in
Well Total Depth 51.8 ft
Screen Length 10 ft
Depth to Water 7.10 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7254883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.05 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	11:47:51	1500.03	22.45	6.29	12940.78	3.99	7.15	0.13	-40.59
Last 5	11:52:51	1800.03	22.40	6.24	13566.85	3.18	7.15	0.13	-40.82
Last 5	11:57:51	2100.02	22.44	6.17	14256.68	2.95	7.15	0.13	-37.57
Last 5	12:02:51	2400.03	22.45	6.14	14532.40	2.21	7.15	0.12	-34.89
Last 5	12:07:51	2700.03	22.36	6.13	14621.88	1.93	7.15	0.12	-33.07
Variance 0			0.04	-0.08	689.83			-0.00	3.25
Variance 1			0.00	-0.03	275.72			-0.00	2.68
Variance 2			-0.08	-0.01	89.48			-0.00	1.81

Notes

Sample @1208, Sunny 66

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-10 06:58:23

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Watson CCR
Site Name Plant Watson CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 60 ft

Pump placement from TOC 49 ft

Well Information:

Well ID APMW-12
Well diameter 2 in
Well Total Depth 54 ft
Screen Length 10 ft
Depth to Water 16.02 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7478054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.06 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	06:42:04	300.03	21.13	6.15	171.68	1.75	16.08	0.26	16.03
Last 5	06:47:04	600.03	21.20	6.18	172.77	1.19	16.08	0.20	10.57
Last 5	06:52:04	900.03	21.28	6.18	171.70	0.89	16.08	0.19	7.91
Last 5	06:57:04	1200.03	21.28	6.19	171.70	0.75	16.08	0.18	5.25
Last 5									
Variance 0			0.07	0.02	1.09			-0.06	-5.46
Variance 1			0.08	0.01	-1.08			-0.01	-2.65
Variance 2			0.00	0.01	0.00			-0.01	-2.66

Notes

Sample@0658, cloudy 58

Grab Samples

Product Name: Low-Flow System

Date: 2021-03-10 07:40:30

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Watson CCR
Site Name Plant Watson CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 632615
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 47 ft

Well Information:

Well ID APMW-11
Well diameter 2 in
Well Total Depth 52 ft
Screen Length 10 ft
Depth to Water 18.32 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7254883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.08 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			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	07:23:58	300.02	21.55	6.29	117.48	1.28	18.40	0.18	3.47
Last 5	07:28:58	600.03	21.55	6.28	118.33	1.80	18.40	0.16	1.84
Last 5	07:33:58	900.02	21.56	6.29	117.76	1.49	18.40	0.15	0.63
Last 5	07:38:58	1200.03	21.56	6.29	118.10	1.37	18.40	0.14	-0.29
Last 5									
Variance 0			0.00	-0.01	0.85			-0.02	-1.64
Variance 1			0.00	0.01	-0.57			-0.01	-1.21
Variance 2			0.01	-0.01	0.34			-0.01	-0.93

Notes

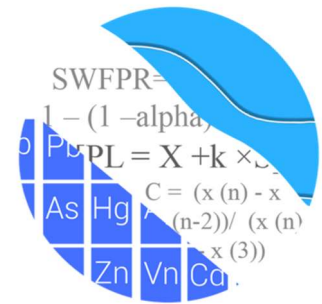
Sample@0739,DUP-03@0639,FB-03@0730, cloudy 64

Grab Samples

Appendix B

1st
Semi-Annual
Monitoring Event

GROUNDWATER STATS CONSULTING



February 4, 2021

Southern Company Services
Attn: Ms. Lauren Parker
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Watson Ash Pond
Statistical Analysis – November 2020

Dear Ms. Parker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of data for the November 2020 sample event for Mississippi Power Company's Plant Watson Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) and follows the USEPA Unified Guidance (2009).

Sampling began for the CCR program in April 2018 for wells listed below and at least 8 background samples have been collected. Exceptions to this include newer upgradient wells APMW-11 and APMW-12, and downgradient well APMW-1R which is a replacement well for well APMW-1. Sampling began at these wells in March 2019. Additionally, sampling began in April 2019 for downgradient well APMW-6R which is a replacement well for APMW-6. New upgradient wells APMW-13, APMW-14, APMW-15, and APMW-16 were first sampled in July 2020 and again in November 2020 for a maximum of 2 sample events. As requested by Southern Company Services, upgradient wells with 2 or more samples will be incorporated into statistical analyses.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** APMW-11, APMW-12, APMW-13, APMW-14, APMW-15, and APMW-16

- **Downgradient wells:** APMW-1R, APMW-2, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-7, APMW-8, APMW-9, APMW-10

Additionally, sampling at the following delineation wells listed below began in July 2020:

- **Delineation wells:** APMW-2D, APMW-3D, APMW-4D, APMW-5D, APMW-6D, APMW-8D, and APMW-10D

While data for these wells are plotted on the time series graphs and box plots, no formal statistics are included in this report due to the limited data. When a minimum of 4 samples is available, data from these wells will be evaluated using confidence intervals for the Appendix IV constituents.

The CCR program consists of the following constituents:

- **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

Time series plots and box plots are included for all constituents at upgradient and downgradient wells. The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

Data at all wells were evaluated in April 2019 for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Interwell prediction limits were selected as the most appropriate statistical method to evaluate the Appendix III parameters at this site. Power curves were submitted at that time and demonstrated that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

During this analysis, all upgradient well data were reviewed for any new outliers in existing and new wells using the time series graphs. No additional values were flagged as outliers in existing upgradient wells, and none were flagged in the new upgradient wells due to

the limited data at this time. It was noted that concentrations for boron, calcium, chloride, and TDS in the new upgradient wells are similar across the new wells, but significantly higher than those observed in the existing upgradient wells. Further studies beyond the scope of this analysis would be needed to fully understand the groundwater population upgradient of the ash pond, and the appropriateness of pooling all upgradient well data for construction of prediction limits. The assumption, however, is that pooling all upgradient well data results in statistical limits that are representative of the entire background population and will serve to balance the false positive risk (identifying a problem in a downgradient well when none exists) with the false negative risk (not identifying impacts when they exist in a downgradient well).

Evaluation of Appendix III Parameters – November 2020

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed for all Appendix III constituents--boron, calcium, chloride, fluoride, pH, sulfate, and TDS--using all available upgradient well data through November 2020 to develop background limits. The most recent observation at each downgradient well is compared to its respective background limit during each subsequent semi-annual sampling event.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary.

During the background screening conducted in April 2019, Tukey's box plot method was used to screen for outliers and the findings were submitted at that time. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph and the accompanying data pages display the flagged value in a lighter font. A summary of flagged values also follows this letter. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. Note that for fluoride, the most recent detection limit in some of the downgradient wells of 5.0 mg/L, when substituted for nondetects in all wells, would result in a prediction limit that is higher than most of the detected values in both upgradient and downgradient wells. Therefore, the historical detection limit of 2 mg/L was substituted at all wells. This will be re-evaluated during the next background update.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. The confidence levels associated with parametric prediction limits are based on an overall false positive rate of 5% due to semi-annual sampling. When data cannot be normalized or the majority of data are nondetects, a nonparametric test is utilized where the highest background value is used to establish the upper prediction limit (and lowest value in the case of pH). The associated confidence level is dependent on the number of available background, future comparisons and resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (USEPA Unified Guidance, 2009), data are analyzed using either parametric or non-parametric prediction limits.

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

When interwell prediction limits were constructed based on the interwell methods discussed above, several statistically significant increases were identified. Summary tables of the prediction limit findings follow this letter.

The Sen's Slope/Mann Kendall trend test was performed on wells/constituents with prediction limit exceedances. Existing upgradient wells were included in this analysis for a general comparison of how the groundwater behaves upgradient of the facility relative to downgradient. The trend test requires a minimum of 5 samples. When the entire record of data was evaluated for each well discussed above, no statistically significant increasing trends were noted at any of the downgradient wells. Statistically significant decreasing trends were noted for boron and calcium in downgradient well APMW-4, and pH in upgradient well APMW-11. A summary of these findings follows this letter.

Evaluation of Appendix IV Parameters – November 2020

Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis and no new outliers were flagged at this time. A summary of previously flagged outliers follows this report.

Parametric upper tolerance limits were used to calculate background limits, when data followed a normal distribution, from pooled upgradient well data through November 2020 for Appendix IV parameters with a target of 95% confidence and 95% coverage to determine the background limits. When data did not follow a normal or transformed-normal distribution, nonparametric upper tolerance limits were constructed and the confidence and coverage levels are dependent upon the number of background samples. These limits were compared to the Maximum Contaminant Levels (MCLs) and CCR-Rule Specified Levels in the GWPS table following this letter to determine the highest limit for use as the Groundwater Protection Standard (GWPS) in the Confidence Interval comparisons.

Confidence intervals were then constructed on downgradient wells using data through November 2020 for each of the Appendix IV parameters using the highest limit of either the MCL, CCR-Rule Specified level, or background as discussed above. Well/constituent pairs containing 100% nondetects were not included in the analysis. A summary of those pairs follows this letter. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. Several exceedances were noted. A summary of the significant results follows this letter. Note that Southern Company Services, reportedly, submitted an Alternate Source Demonstration (ASD) for the barium and combined radium 226 + 228 confidence interval exceedances.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Watson Ash Pond. If you have any questions or comments, please feel free to contact me.

For Groundwater Stats Consulting,



Kristina L. Rayner
Groundwater Statistician

100% Non-Detects

Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Antimony (mg/L)

APMW-10, APMW-1R, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-7, APMW-8, APMW-9

Beryllium (mg/L)

APMW-4, APMW-5

Cadmium (mg/L)

APMW-10, APMW-2, APMW-3, APMW-4, APMW-5, APMW-7, APMW-8, APMW-9

Chromium (mg/L)

APMW-10, APMW-2, APMW-6R, APMW-9

Cobalt (mg/L)

APMW-2, APMW-8

Lead (mg/L)

APMW-1R, APMW-2

Mercury (mg/L)

APMW-2, APMW-3, APMW-4, APMW-6R

Molybdenum (mg/L)

APMW-1R

Selenium (mg/L)

APMW-1R, APMW-6R

Thallium (mg/L)

APMW-4, APMW-5, APMW-6R, APMW-7

State Interwell Prediction Limits - State Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 1:32 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	11/20/2020	1.8	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	11/4/2020	6.8	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	11/5/2020	3.6	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	11/5/2020	5.1	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	11/9/2020	1.3	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	11/9/2020	5.8	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	11/20/2020	9.5	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	11/9/2020	21	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	11/20/2020	6.5	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	11/4/2020	200	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	11/5/2020	350	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	11/5/2020	370	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	11/9/2020	160	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	11/9/2020	330	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	11/20/2020	420	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	11/9/2020	470	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	11/20/2020	290	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	11/5/2020	9600	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	11/9/2020	9400	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.818	5.899	11/20/2020	6.94	Yes	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	11/5/2020	19000	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	11/9/2020	14000	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2

State Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 1:32 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	11/20/2020	1.8	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	11/4/2020	6.8	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	11/5/2020	3.6	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	11/5/2020	5.1	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	11/9/2020	1.3	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	11/9/2020	5.8	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	11/20/2020	9.5	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	11/10/2020	0.94	No	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	11/9/2020	21	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	11/20/2020	6.5	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-10	130	n/a	11/20/2020	53	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	11/4/2020	200	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	11/5/2020	350	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	11/5/2020	370	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	11/9/2020	160	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	11/9/2020	330	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	11/20/2020	420	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-7	130	n/a	11/10/2020	99	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	11/9/2020	470	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	11/20/2020	290	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-10	5400	n/a	11/20/2020	1000	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-1R	5400	n/a	11/4/2020	4700	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-2	5400	n/a	11/5/2020	5100	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	11/5/2020	9600	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-4	5400	n/a	11/9/2020	3200	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	11/9/2020	9400	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-6R	5400	n/a	11/20/2020	4300	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-7	5400	n/a	11/10/2020	4200	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-8	5400	n/a	11/9/2020	3600	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-9	5400	n/a	11/20/2020	3100	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	2	n/a	11/20/2020	0.81	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-1R	2	n/a	11/4/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-2	2	n/a	11/5/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-3	2	n/a	11/5/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-4	2	n/a	11/9/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-5	2	n/a	11/9/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	2	n/a	11/20/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-7	2	n/a	11/10/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	2	n/a	11/9/2020	0.74J	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-9	2	n/a	11/20/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.818	5.899	11/20/2020	6.94	Yes	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-1R	6.818	5.899	11/4/2020	6.45	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.818	5.899	11/5/2020	5.92	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-3	6.818	5.899	11/5/2020	6.58	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-4	6.818	5.899	11/9/2020	6.37	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-5	6.818	5.899	11/9/2020	6.37	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-6R	6.818	5.899	11/20/2020	6.09	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-7	6.818	5.899	11/10/2020	6.37	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-8	6.818	5.899	11/9/2020	6.74	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.818	5.899	11/20/2020	6.23	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2

State Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 1:32 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	APMW-10	1700	n/a	11/20/2020	50	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-1R	1700	n/a	11/4/2020	10	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-2	1700	n/a	11/5/2020	4.4J	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	1700	n/a	11/5/2020	1000	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-4	1700	n/a	11/9/2020	320	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	1700	n/a	11/9/2020	1000	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-6R	1700	n/a	11/20/2020	790	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-7	1700	n/a	11/10/2020	64	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-8	1700	n/a	11/9/2020	590	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-9	1700	n/a	11/20/2020	270	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-10	9200	n/a	11/20/2020	2100	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-1R	9200	n/a	11/4/2020	5000	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-2	9200	n/a	11/5/2020	4100	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	11/5/2020	19000	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-4	9200	n/a	11/9/2020	5400	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	11/9/2020	14000	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-6R	9200	n/a	11/20/2020	7400	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-7	9200	n/a	11/10/2020	7100	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-8	9200	n/a	11/9/2020	7100	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-9	9200	n/a	11/20/2020	6000	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2

State Trend Test Summary - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 2:09 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	APMW-4	-0.1929	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-21.43	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.6605	-49	-38	Yes	12	0	n/a	n/a	0.01	NP

State Trend Test Summary - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 2:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-10	0.01941	13	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-11 (bg)	0.008002	15	34	No	11	45.45	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-12 (bg)	0.03739	34	34	No	11	27.27	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	1.941	32	34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-2	-0.2092	-29	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-3	-0.102	-7	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-4	-0.1929	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-5	-0.4237	-18	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-6R	1.869	19	34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-8	-1.226	-22	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-9	0	-3	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-9.733	-34	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-12 (bg)	-0.6114	-16	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	46.79	29	34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-2	-2.086	-3	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-3	0	-6	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-21.43	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-5	-13.68	-21	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-6R	39.25	16	34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-8	-38.19	-34	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-9	-8.238	-19	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-11 (bg)	0	-3	-34	No	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-12 (bg)	0	3	34	No	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-539.6	-30	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-5	166.4	19	38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.1088	41	43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.6605	-49	-38	Yes	12	0	n/a	n/a	0.01	NP
pH (SU)	APMW-12 (bg)	-0.1724	-17	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-11 (bg)	-16.29	-11	-34	No	11	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-12 (bg)	0	-1	-34	No	11	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-3	0	0	38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-5	0	-2	-38	No	12	0	n/a	n/a	0.01	NP

Tolerance Limit Summary Table

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 2:12 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.002	32	n/a	n/a	100	n/a	n/a	0.1937	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.00496	32	n/a	n/a	37.5	n/a	n/a	0.1937	NP Inter(normality)
Barium (mg/L)	n/a	0.243	32	n/a	n/a	0	n/a	n/a	0.1937	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	32	n/a	n/a	90.63	n/a	n/a	0.1937	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	32	n/a	n/a	96.88	n/a	n/a	0.1937	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0022	28	n/a	n/a	89.29	n/a	n/a	0.2378	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0025	32	n/a	n/a	96.88	n/a	n/a	0.1937	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.564	32	0.9345	0.3295	6.25	None	x ^(1/3)	0.05	Inter
Fluoride (mg/L)	n/a	0.49	32	n/a	n/a	31.25	n/a	n/a	0.1937	NP Inter(normality)
Lead (mg/L)	n/a	0.001	32	n/a	n/a	96.88	n/a	n/a	0.1937	NP Inter(NDs)
Lithium (mg/L)	n/a	0.02812	32	0.1043	0.02883	6.25	None	sqrt(x)	0.05	Inter
Mercury (mg/L)	n/a	0.0002	28	n/a	n/a	92.86	n/a	n/a	0.2378	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	32	n/a	n/a	93.75	n/a	n/a	0.1937	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	32	n/a	n/a	100	n/a	n/a	0.1937	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	32	n/a	n/a	93.75	n/a	n/a	0.1937	NP Inter(NDs)

WATSON ASH POND GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.24	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0022	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		4.56	5
Fluoride, Total (mg/L)	4		0.49	4
Lead, Total (mg/L)	0.015		0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.028	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residuals

Appendix IV Confidence Interval Summary Table - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	APMW-10	0.1213	0.09241	0.01	Yes 12	0.1068	0.01838	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-3	0.08479	0.06654	0.01	Yes 12	0.07567	0.01163	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01843	0.01707	0.01	Yes 12	0.01775	0.000866	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2439	0.2144	0.01	Yes 12	0.2292	0.01881	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.164	0.1208	0.01	Yes 12	0.1424	0.02752	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08743	0.05507	0.01	Yes 12	0.07125	0.02062	0	None	No	0.01	Param.
Barium (mg/L)	APMW-2	3.367	2.862	2	Yes 12	3.117	0.3326	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	8.627	6.039	5	Yes 12	7.333	1.649	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.06	17.22	5	Yes 12	18.64	1.807	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	7.037	5.641	5	Yes 12	6.339	0.8893	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.135	5.924	5	Yes 12	6.529	0.7716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	7.429	6.666	5	Yes 12	7.048	0.4868	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.091	0.07	0.04	Yes 12	0.07942	0.0119	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.077	0.052	0.04	Yes 12	0.05892	0.0097	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.069	0.044	0.04	Yes 12	0.05042	0.01023	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05926	0.05207	0.04	Yes 12	0.05567	0.004579	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.13	0.068	0.04	Yes 12	0.09458	0.02566	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-6R	0.4382	0.3585	0.1	Yes 12	0.3983	0.05078	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-8	0.1631	0.1112	0.1	Yes 12	0.1372	0.03309	0	None	No	0.01	Param.

Appendix IV Confidence Interval Summary Table - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	APMW-2	0.002	0.0014	0.006	No 12	0.00195	0.0001732	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-10	0.1213	0.09241	0.01	Yes 12	0.1068	0.01838	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-1R	0.002217	0.001056	0.01	No 12	0.001637	0.0007401	8.333	None	No	0.01	Param.
Arsenic (mg/L)	APMW-2	0.00094	0.00035	0.01	No 12	0.000605	0.0002425	66.67	None	No	0.01	NP (normality)
Arsenic (mg/L)	APMW-3	0.08479	0.06654	0.01	Yes 12	0.07567	0.01163	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01843	0.01707	0.01	Yes 12	0.01775	0.000866	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2439	0.2144	0.01	Yes 12	0.2292	0.01881	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.164	0.1208	0.01	Yes 12	0.1424	0.02752	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-7	0.00215	0.0007131	0.01	No 12	0.001432	0.0009158	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08743	0.05507	0.01	Yes 12	0.07125	0.02062	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-9	0.00143	0.001086	0.01	No 12	0.001258	0.0002193	0	None	No	0.01	Param.
Barium (mg/L)	APMW-10	0.2668	0.2282	2	No 12	0.2475	0.02454	0	None	No	0.01	Param.
Barium (mg/L)	APMW-1R	1.135	0.9184	2	No 12	1.03	0.1497	0	None	ln(x)	0.01	Param.
Barium (mg/L)	APMW-2	3.367	2.862	2	Yes 12	3.117	0.3326	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	APMW-3	0.11	0.097	2	No 12	0.1031	0.006708	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-4	0.5051	0.3332	2	No 12	0.4192	0.1095	0	None	No	0.01	Param.
Barium (mg/L)	APMW-5	0.108	0.09397	2	No 12	0.101	0.008954	0	None	No	0.01	Param.
Barium (mg/L)	APMW-6R	0.06739	0.05461	2	No 12	0.061	0.008146	0	None	No	0.01	Param.
Barium (mg/L)	APMW-7	0.862	0.613	2	No 12	0.7375	0.1586	0	None	No	0.01	Param.
Barium (mg/L)	APMW-8	0.2214	0.2036	2	No 12	0.2125	0.01138	0	None	No	0.01	Param.
Barium (mg/L)	APMW-9	0.48	0.42	2	No 12	0.4408	0.02353	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	APMW-10	0.0025	0.00043	0.004	No 12	0.002327	0.0005976	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-1R	0.0025	0.00019	0.004	No 12	0.002307	0.0006668	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-2	0.0025	0.00061	0.004	No 12	0.002153	0.0008137	83.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-3	0.0025	0.00018	0.004	No 12	0.002307	0.0006697	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-6R	0.0025	0.00036	0.004	No 12	0.002322	0.0006178	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-7	0.0025	0.00025	0.004	No 12	0.002312	0.0006495	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-8	0.0025	0.00038	0.004	No 12	0.002323	0.000612	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-9	0.0025	0.00049	0.004	No 12	0.002332	0.0005802	91.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-1R	0.0025	0.00045	0.005	No 12	0.002329	0.0005918	91.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-6R	0.0025	0.00026	0.005	No 12	0.002117	0.0008956	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-1R	0.002	0.002	0.1	No 10	0.00212	0.0003795	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	APMW-3	0.002	0.002	0.1	No 10	0.00194	0.0001897	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	APMW-4	0.002497	0.001543	0.1	No 10	0.00202	0.000535	20	None	No	0.01	Param.
Chromium (mg/L)	APMW-5	0.00266	0.001459	0.1	No 10	0.00178	0.0003967	50	Cohen's	No	0.01	Param.
Chromium (mg/L)	APMW-7	0.002	0.0014	0.1	No 10	0.00166	0.0003098	40	None	No	0.011	NP (normality)
Chromium (mg/L)	APMW-8	0.002	0.002	0.1	No 10	0.00206	0.0004427	80	None	No	0.011	NP (NDs)
Cobalt (mg/L)	APMW-10	0.0025	0.00012	0.006	No 12	0.0021	0.0009338	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-1R	0.0025	0.00017	0.006	No 12	0.001082	0.001053	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-3	0.002789	0.002295	0.006	No 12	0.002542	0.0003147	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-4	0.003817	0.003216	0.006	No 12	0.003517	0.0003834	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-5	0.0025	0.000079	0.006	No 12	0.002096	0.0009432	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-6R	0.003784	0.001883	0.006	No 12	0.002833	0.001212	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-7	0.0025	0.00024	0.006	No 12	0.001574	0.001145	58.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-9	0.0025	0.000089	0.006	No 12	0.002098	0.0009395	83.33	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	APMW-10	3.231	2.469	5	No 12	2.85	0.4862	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	8.627	6.039	5	Yes 12	7.333	1.649	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.06	17.22	5	Yes 12	18.64	1.807	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	7.037	5.641	5	Yes 12	6.339	0.8893	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-4	2.752	1.816	5	No 12	2.284	0.5962	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-5	4.667	3.642	5	No 12	4.154	0.6533	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-6R	3.37	2.889	5	No 12	3.129	0.3066	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.135	5.924	5	Yes 12	6.529	0.7716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-8	4.033	3.232	5	No 12	3.633	0.5108	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	7.429	6.666	5	Yes 12	7.048	0.4868	0	None	No	0.01	Param.

Appendix IV Confidence Interval Summary Table - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	APMW-10	0.7905	0.5834	4	No 13	0.6869	0.1392	0	None	No	0.01	Param.
Fluoride (mg/L)	APMW-1R	2	0.14	4	No 12	1.238	0.9426	58.33	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-2	2	0.06	4	No 12	0.4142	0.7421	16.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-3	2	0.35	4	No 13	0.8362	0.6786	23.08	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-4	0.58	0.48	4	No 13	0.7354	0.5648	15.38	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-5	2	0.07	4	No 12	0.8867	0.9828	41.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-6R	2	0.32	4	No 12	1.716	0.6638	83.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-7	1.6	0.11	4	No 13	0.5546	0.7582	15.38	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-8	1.035	0.7905	4	No 13	0.9038	0.1843	0	None	x^2	0.01	Param.
Fluoride (mg/L)	APMW-9	2	0.06	4	No 12	0.5692	0.8641	25	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-10	0.0011	0.0006	0.015	No 12	0.000975	0.0001215	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-3	0.001	0.00048	0.015	No 12	0.0009567	0.0001501	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-4	0.001	0.00062	0.015	No 12	0.0009683	0.0001097	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-5	0.0011	0.00041	0.015	No 12	0.0009058	0.0002452	75	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-6R	0.001	0.00032	0.015	No 12	0.0009433	0.0001963	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-7	0.0019	0.001	0.015	No 12	0.001075	0.0002598	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-8	0.0013	0.001	0.015	No 12	0.001075	0.0001865	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-9	0.001	0.00039	0.015	No 12	0.0008767	0.0002933	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	APMW-10	0.02059	0.01182	0.04	No 12	0.01667	0.007426	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	APMW-1R	0.01329	0.01045	0.04	No 12	0.01146	0.003071	8.333	None	x^3	0.01	Param.
Lithium (mg/L)	APMW-2	0.02837	0.02213	0.04	No 12	0.02525	0.00398	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.091	0.07	0.04	Yes 12	0.07942	0.0119	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.077	0.052	0.04	Yes 12	0.05892	0.0097	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.069	0.044	0.04	Yes 12	0.05042	0.01023	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05926	0.05207	0.04	Yes 12	0.05567	0.004579	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-7	0.0048	0.0021	0.04	No 11	0.003255	0.001533	27.27	None	No	0.006	NP (Cohens/xfrm)
Lithium (mg/L)	APMW-8	0.13	0.068	0.04	Yes 12	0.09458	0.02566	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-9	0.0053	0.0025	0.04	No 11	0.003845	0.001542	18.18	None	No	0.006	NP (Cohens/xfrm)
Mercury (mg/L)	APMW-10	0.0002	0.0002	0.002	No 10	0.0001885	0.00003637	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	APMW-1R	0.0002	0.0002	0.002	No 10	0.000195	0.00001581	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	APMW-5	0.0002	0.0002	0.002	No 10	0.0001893	0.00003384	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	APMW-7	0.0002	0.0002	0.002	No 10	0.000189	0.00003479	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	APMW-8	0.0002	0.0002	0.002	No 10	0.0001877	0.0000389	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	APMW-9	0.0002	0.0002	0.002	No 10	0.000215	0.00004743	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	APMW-10	0.108	0.08362	0.1	No 12	0.09525	0.01673	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	APMW-2	0.015	0.00079	0.1	No 12	0.01382	0.004102	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-3	0.07002	0.05982	0.1	No 12	0.06492	0.006501	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-4	0.01043	0.008256	0.1	No 12	0.009342	0.001383	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-5	0.107	0.06447	0.1	No 12	0.08575	0.02713	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-6R	0.4382	0.3585	0.1	Yes 12	0.3983	0.05078	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-7	0.015	0.0047	0.1	No 12	0.01008	0.005342	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-8	0.1631	0.1112	0.1	Yes 12	0.1372	0.03309	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-9	0.015	0.00093	0.1	No 12	0.01265	0.005483	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-10	0.005	0.00035	0.05	No 12	0.003858	0.002066	75	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-2	0.005	0.00061	0.05	No 12	0.003892	0.002007	75	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-3	0.005	0.001	0.05	No 12	0.002847	0.001924	41.67	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-4	0.005	0.00055	0.05	No 12	0.003882	0.002023	75	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-5	0.005	0.0006	0.05	No 12	0.003909	0.001974	75	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-7	0.005	0.00039	0.05	No 12	0.003851	0.002079	75	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-8	0.005	0.00049	0.05	No 12	0.003876	0.002034	75	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-9	0.005	0.00041	0.05	No 12	0.003874	0.00204	75	None	No	0.01	NP (normality)
Thallium (mg/L)	APMW-10	0.001	0.00058	0.002	No 12	0.0008942	0.0002636	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-1R	0.001	0.00019	0.002	No 12	0.0009325	0.0002338	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-2	0.001	0.00084	0.002	No 12	0.0009867	0.00004619	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-3	0.001	0.00012	0.002	No 12	0.0009267	0.000254	91.67	None	No	0.01	NP (NDs)

Appendix IV Confidence Interval Summary Table - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 4:56 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Thallium (mg/L)	APMW-8	0.0013	0.00025	0.002	No 12	0.0009625	0.0002404	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-9	0.0016	0.001	0.002	No 12	0.00105	0.0001732	91.67	None	No	0.01	NP (NDs)

Outlier Summary

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 2:20 PM

	APMW-2 Fluoride (mg/L)	APMW-5 Fluoride (mg/L)	APMW-9 Fluoride (mg/L)	APMW-7 Lithium (mg/L)	APMW-9 Lithium (mg/L)
11/1/2018					0.018 (o)
11/2/2018				0.014 (o)	
12/6/2018		1.4 (o)	0.21 (o)		
12/7/2018	4.3 (o)				

Prediction Limits

State Interwell Prediction Limits - State Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 1:32 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	11/20/2020	1.8	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	11/4/2020	6.8	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	11/5/2020	3.6	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	11/5/2020	5.1	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	11/9/2020	1.3	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	11/9/2020	5.8	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	11/20/2020	9.5	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	11/9/2020	21	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	11/20/2020	6.5	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	11/4/2020	200	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	11/5/2020	350	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	11/5/2020	370	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	11/9/2020	160	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	11/9/2020	330	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	11/20/2020	420	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	11/9/2020	470	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	11/20/2020	290	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	11/5/2020	9600	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	11/9/2020	9400	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.818	5.899	11/20/2020	6.94	Yes	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	11/5/2020	19000	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	11/9/2020	14000	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2

State Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 1:32 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	11/20/2020	1.8	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	11/4/2020	6.8	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	11/5/2020	3.6	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	11/5/2020	5.1	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	11/9/2020	1.3	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	11/9/2020	5.8	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	11/20/2020	9.5	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	11/10/2020	0.94	No	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	11/9/2020	21	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	11/20/2020	6.5	Yes	30	n/a	n/a	26.67	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-10	130	n/a	11/20/2020	53	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	11/4/2020	200	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	11/5/2020	350	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	11/5/2020	370	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	11/9/2020	160	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	11/9/2020	330	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	11/20/2020	420	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-7	130	n/a	11/10/2020	99	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	11/9/2020	470	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	11/20/2020	290	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-10	5400	n/a	11/20/2020	1000	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-1R	5400	n/a	11/4/2020	4700	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-2	5400	n/a	11/5/2020	5100	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	11/5/2020	9600	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-4	5400	n/a	11/9/2020	3200	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	11/9/2020	9400	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-6R	5400	n/a	11/20/2020	4300	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-7	5400	n/a	11/10/2020	4200	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-8	5400	n/a	11/9/2020	3600	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-9	5400	n/a	11/20/2020	3100	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	2	n/a	11/20/2020	0.81	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-1R	2	n/a	11/4/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-2	2	n/a	11/5/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-3	2	n/a	11/5/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-4	2	n/a	11/9/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-5	2	n/a	11/9/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	2	n/a	11/20/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-7	2	n/a	11/10/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	2	n/a	11/9/2020	0.74J	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-9	2	n/a	11/20/2020	2ND	No	32	n/a	n/a	31.25	n/a	n/a	0.001687	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.818	5.899	11/20/2020	6.94	Yes	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-1R	6.818	5.899	11/4/2020	6.45	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.818	5.899	11/5/2020	5.92	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-3	6.818	5.899	11/5/2020	6.58	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-4	6.818	5.899	11/9/2020	6.37	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-5	6.818	5.899	11/9/2020	6.37	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-6R	6.818	5.899	11/20/2020	6.09	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-7	6.818	5.899	11/10/2020	6.37	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-8	6.818	5.899	11/9/2020	6.74	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.818	5.899	11/20/2020	6.23	No	32	6.358	0.2176	0	None	No	0.0003761	Param Inter 1 of 2

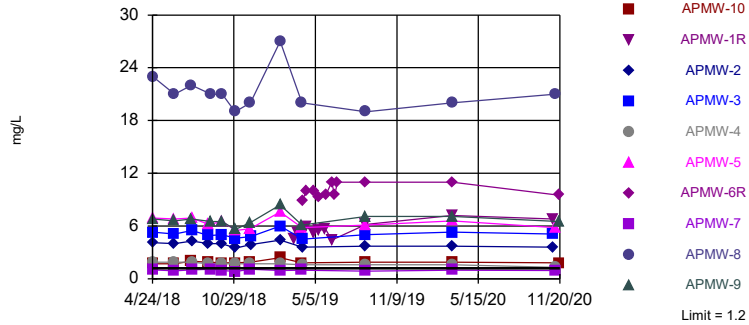
State Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 1:32 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	APMW-10	1700	n/a	11/20/2020	50	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-1R	1700	n/a	11/4/2020	10	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-2	1700	n/a	11/5/2020	4.4J	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	1700	n/a	11/5/2020	1000	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-4	1700	n/a	11/9/2020	320	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	1700	n/a	11/9/2020	1000	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-6R	1700	n/a	11/20/2020	790	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-7	1700	n/a	11/10/2020	64	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-8	1700	n/a	11/9/2020	590	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-9	1700	n/a	11/20/2020	270	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-10	9200	n/a	11/20/2020	2100	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-1R	9200	n/a	11/4/2020	5000	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-2	9200	n/a	11/5/2020	4100	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	11/5/2020	19000	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-4	9200	n/a	11/9/2020	5400	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	11/9/2020	14000	Yes	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-6R	9200	n/a	11/20/2020	7400	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-7	9200	n/a	11/10/2020	7100	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-8	9200	n/a	11/9/2020	7100	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-9	9200	n/a	11/20/2020	6000	No	30	n/a	n/a	0	n/a	n/a	0.001869	NP Inter (normality) 1 of 2

Exceeds Limit: APMW-10, APMW-1R, APMW-2, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, APMW-9

Prediction Limit
Interwell Non-parametric

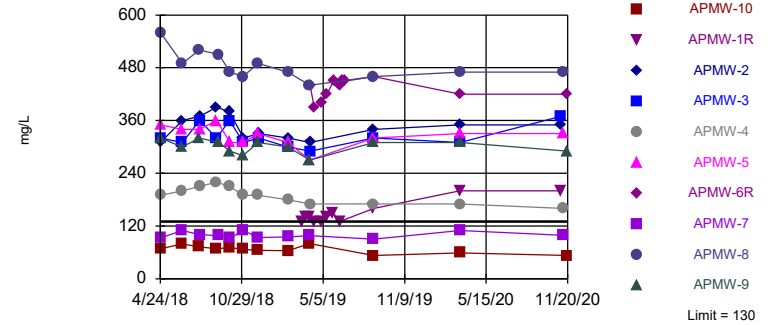


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 30 background values. 26.67% NDs. Annual per-constituent alpha = 0.03673. Individual comparison alpha = 0.001869 (1 of 2). Comparing 10 points to limit.

Constituent: Boron Analysis Run 2/4/2021 1:30 PM View: PLs Interwell
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-1R, APMW-2, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, APMW-9

Prediction Limit
Interwell Non-parametric

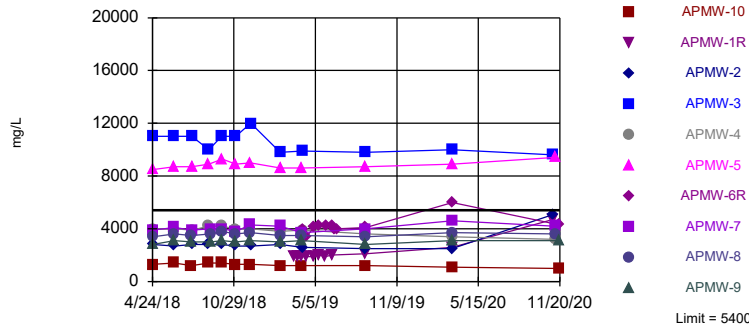


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 30 background values. Annual per-constituent alpha = 0.03673. Individual comparison alpha = 0.001869 (1 of 2). Comparing 10 points to limit.

Constituent: Calcium Analysis Run 2/4/2021 1:30 PM View: PLs Interwell
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-3, APMW-5

Prediction Limit
Interwell Non-parametric

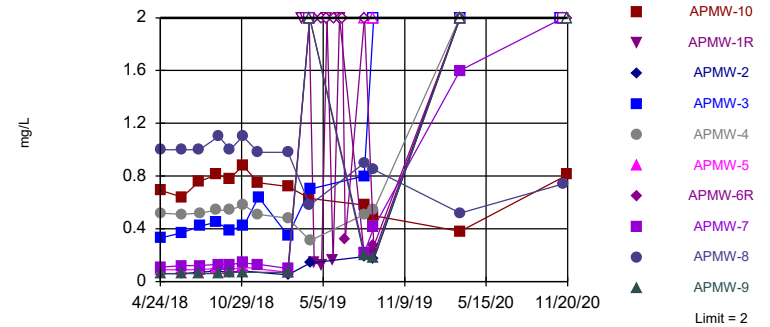


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 30 background values. Annual per-constituent alpha = 0.03673. Individual comparison alpha = 0.001869 (1 of 2). Comparing 10 points to limit.

Constituent: Chloride Analysis Run 2/4/2021 1:30 PM View: PLs Interwell
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Within Limit

Prediction Limit
Interwell Non-parametric

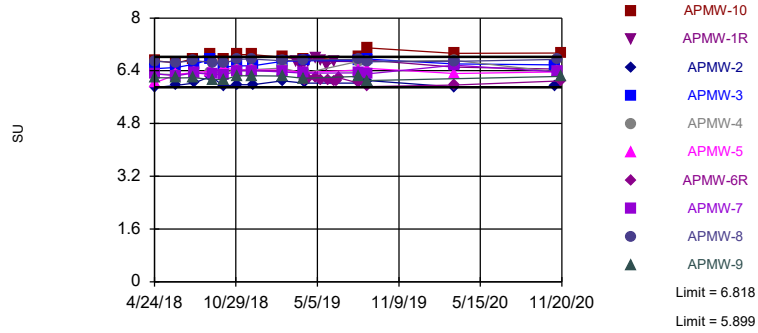


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. 31.25% NDs. Annual per-constituent alpha = 0.03321. Individual comparison alpha = 0.001687 (1 of 2). Comparing 10 points to limit.

Constituent: Fluoride Analysis Run 2/4/2021 1:30 PM View: PLs Interwell
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limits: APMW-10

Prediction Limit
Interwell Parametric

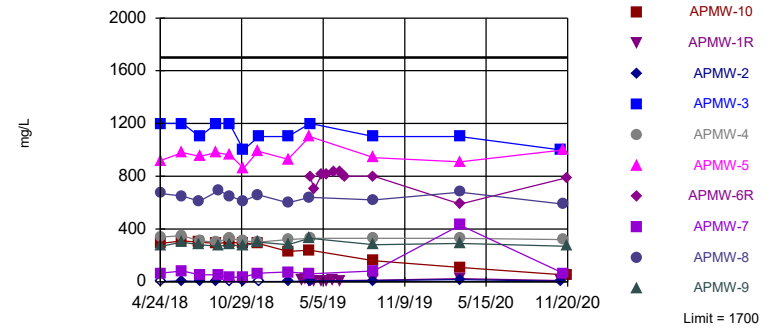


Background Data Summary: Mean=6.358, Std. Dev.=0.2176, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9681, critical = 0.904. Kappa = 2.113 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003761. Comparing 10 points to limit.

Constituent: pH Analysis Run 2/4/2021 1:30 PM View: PLS Interwell
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Within Limit

Prediction Limit
Interwell Non-parametric

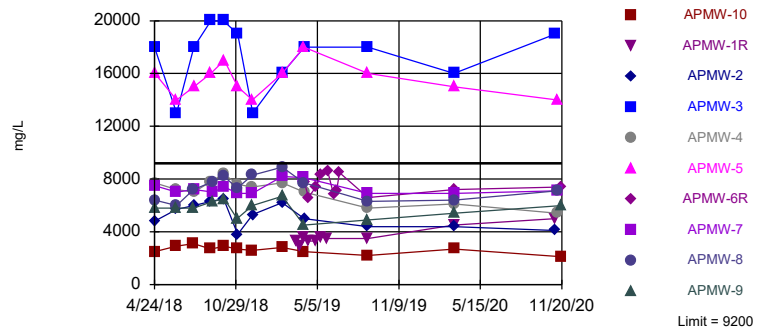


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 30 background values. Annual per-constituent alpha = 0.03673. Individual comparison alpha = 0.001869 (1 of 2). Comparing 10 points to limit.

Constituent: Sulfate Analysis Run 2/4/2021 1:30 PM View: PLS Interwell
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-3, APMW-5

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 30 background values. Annual per-constituent alpha = 0.03673. Individual comparison alpha = 0.001869 (1 of 2). Comparing 10 points to limit.

Constituent: Total Dissolved Solids Analysis Run 2/4/2021 1:30 PM View: PLS Interwell
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-9	APMW-10	APMW-1R
4/24/2018	4.1	5.3	1.9						
4/25/2018				6.9	1	23	6.8	1.7	
6/13/2018							6.6	1.7	
6/14/2018	4	5.1	1.9	6.8	0.91	21			
7/23/2018						22	6.8	2	
7/24/2018	4.3	5.5	1.9	6.9	1				
9/1/2018	4	4.9	1.7	6.2					1.9
9/6/2018					1.1	21	6.5		
10/1/2018	4	5	1.7						
10/2/2018				6.5	0.95	21	6.5	1.8	
11/1/2018						19	5.6	1.8	
11/2/2018	3.5	4.6	1.7	5.5	0.82				
12/6/2018			1.7	5.7	1.1	20	6.4	1.9	
12/7/2018	3.9	4.8							
2/13/2019	4.4	6	1.7	7.6	0.95	27	8.4	2.4	
3/16/2019									4.5
3/27/2019									5.2
4/3/2019									5.3
4/4/2019				5.8	0.98	20	6.1	1.8	
4/5/2019	3.6	4.5	1.6						
4/15/2019									5.9
4/16/2019									
5/2/2019									5.3
5/3/2019									
5/14/2019									5.5
5/28/2019									5.7
5/29/2019									
6/12/2019									4.4
6/19/2019									
6/25/2019									
8/29/2019									
8/30/2019	3.7	5	1.6	6.1	0.88	19	7.1	1.9	6.2
3/16/2020	3.7	5.3	1.6						7.2
3/17/2020				6.6	0.98	20	7.1	1.9	
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									6.8
11/5/2020	3.6	5.1							
11/9/2020			1.3	5.8		21			
11/10/2020					0.94				
11/20/2020							6.5	1.8	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-11 (bg)	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	0.035 (J)	0.028 (J)					
3/27/2019	0.033 (JD)	0.027 (JD)					
4/3/2019	0.023 (JD)	0.089 (D)					
4/4/2019							
4/5/2019			8.9 (D)				
4/15/2019			10				
4/16/2019	<0.08	<0.08					
5/2/2019			10				
5/3/2019	0.021 (J)	<0.08					
5/14/2019	<0.08	<0.08	9.3				
5/28/2019							
5/29/2019	0.044 (J)	0.034 (J)	9.5				
6/12/2019	0.047 (J)	0.05 (J)	11				
6/19/2019			9.5				
6/25/2019			11				
8/29/2019	<0.08	<0.08					
8/30/2019			11				
3/16/2020							
3/17/2020	0.057 (J)	0.057 (J)	11				
7/21/2020				0.609	0.718	0.58	
7/30/2020							0.62
11/3/2020				1.2			
11/4/2020					0.85	0.88	1.2
11/5/2020							
11/9/2020		<0.08					
11/10/2020							
11/20/2020	0.098		9.5				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-9	APMW-10	APMW-1R
4/24/2018	310	320	190						
4/25/2018				350	93	560	320	68	
6/13/2018							300	79	
6/14/2018	360	310	200	340	110	490			
7/23/2018						520	320	73	
7/24/2018	370	360	210	340	100				
9/1/2018	390	320	220	360				68	
9/6/2018					98	510	310		
10/1/2018	380	360	210						
10/2/2018				310	93	470	290	71	
11/1/2018						460	280	67	
11/2/2018	320	310	190	310	110				
12/6/2018			190	330	94	490	310	65	
12/7/2018	330	320							
2/13/2019	320	300	180	310	95	470	300	64	
3/16/2019									130
3/27/2019									140
4/3/2019									140
4/4/2019				270	98	440	270	80	
4/5/2019	310	290	170						
4/15/2019									130
4/16/2019									
5/2/2019									130
5/3/2019									
5/14/2019									140
5/28/2019									150
5/29/2019									
6/12/2019									130
6/19/2019									
6/25/2019									
8/29/2019									
8/30/2019	340	320	170	320	90	460	310	53	160
3/16/2020	350	310	170						200
3/17/2020				330	110	470	310	59	
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									200
11/5/2020	350	370							
11/9/2020			160	330		470			
11/10/2020					99				
11/20/2020							290	53	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-11 (bg)	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	13	17					
3/27/2019	15 (D)	16 (D)					
4/3/2019	13 (D)	15 (D)					
4/4/2019							
4/5/2019			440 (D)				
4/15/2019			390				
4/16/2019	12	13					
5/2/2019			400				
5/3/2019	13	12					
5/14/2019	13	14	420				
5/28/2019							
5/29/2019	15	7	450				
6/12/2019	14	13	440				
6/19/2019			450				
6/25/2019			450				
8/29/2019	12	9.4					
8/30/2019			460				
3/16/2020							
3/17/2020	12	9.8	420				
7/21/2020				81.7	127	97.7	
7/30/2020							99.2
11/3/2020				120			
11/4/2020					120	110	130
11/5/2020							
11/9/2020		11					
11/10/2020							
11/20/2020	12		420				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-9	APMW-10	APMW-1R
4/24/2018	2800	11000	4000						
4/25/2018				8500	3900	3400	2800	1300	
6/13/2018							3100	1400	
6/14/2018	2700	11000	4000	8700	4100	3600			
7/23/2018						3500	3000	1200	
7/24/2018	2800	11000	3900	8700	3900				
9/1/2018	2800	10000	4200	8900					1400
9/6/2018					4000	3600	3000		
10/1/2018	2800	11000	4200						
10/2/2018				9300	4000	3800	3100	1400	
11/1/2018						3600	3000	1300	
11/2/2018	2700	11000	4000	8900	3800				
12/6/2018			4000	9000	4300	3700	3100	1300	
12/7/2018	2700	12000							
2/13/2019	2800	9800	3800	8600	4200	3500	3000	1200	
3/16/2019									1900
3/27/2019									1900
4/3/2019									1900
4/4/2019				8600	3700	3500	3100	1200	
4/5/2019	2600	9900	3900						
4/15/2019									1900
4/16/2019									
5/2/2019									1900
5/3/2019									
5/14/2019									2000
5/28/2019									1900
5/29/2019									
6/12/2019									2000
6/19/2019									
6/25/2019									
8/29/2019									
8/30/2019	2500	9800	3600	8700	4000	3400	2800	1200	2100
3/16/2020	2500	10000	3400						2600
3/17/2020				8900	4600	3700	3100	1100	
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									4700
11/5/2020	5100	9600							
11/9/2020			3200	9400		3600			
11/10/2020					4200				
11/20/2020							3100	1000	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-11 (bg)	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	14	9.3					
3/27/2019	15 (D)	8.2 (D)					
4/3/2019	15 (D)	8.7 (D)					
4/4/2019							
4/5/2019			4000 (D)				
4/15/2019			3400				
4/16/2019	14	8.7					
5/2/2019			4100				
5/3/2019	15	9.3					
5/14/2019	15	8.8	4200				
5/28/2019							
5/29/2019	14	8.8	4200				
6/12/2019	15	8.8	4200				
6/19/2019			4000				
6/25/2019			4000				
8/29/2019	14	8.1					
8/30/2019			4100				
3/16/2020							
3/17/2020	14	8.2	6000				
7/21/2020				2910	2920	1470	
7/30/2020							2830
11/3/2020				4900			
11/4/2020					3100	5400	4700
11/5/2020							
11/9/2020		9.1					
11/10/2020							
11/20/2020	16		4300				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-9	APMW-10	APMW-1R
4/24/2018	0.06 (J)	0.33	0.52						
4/25/2018				0.09 (J)	0.11	1	0.06 (J)	0.69	
6/13/2018							0.06 (J)	0.64	
6/14/2018	0.06 (J)	0.37	0.51	0.09 (J)	0.12	1			
7/23/2018						1	0.06 (J)	0.76	
7/24/2018	0.07 (J)	0.42	0.52	0.09 (J)	0.12				
9/1/2018	0.08 (J)	0.45	0.54	0.1					0.81
9/6/2018					0.13	1.1	0.06 (J)		
10/1/2018	0.07 (J)	0.39	0.54						
10/2/2018				0.09 (J)	0.13	1	0.07 (J)	0.78	
11/1/2018						1.1	0.07 (J)	0.88	
11/2/2018	0.08 (J)	0.42	0.58	0.11	0.14				
12/6/2018			0.51	1.4 (o)	0.13	0.98	0.21 (o)	0.75	
12/7/2018	4.3 (o)	0.64							
2/13/2019	0.05 (J)	0.35	0.48	0.07 (J)	0.1	0.98	0.07 (J)	0.72	
3/16/2019									<2
3/27/2019									<2
4/3/2019									<2
4/4/2019				<2	<2	0.58 (J)	<2	0.63	
4/5/2019	0.14 (J)	0.7 (J)	0.31 (J)						
4/15/2019									0.14 (J)
4/16/2019									
5/2/2019									0.13 (J)
5/3/2019									
5/14/2019									<2
5/28/2019									0.16 (J)
5/29/2019									
6/12/2019									<2
6/19/2019									
6/25/2019									
8/8/2019	0.19 (J)	0.8 (J)					0.2 (J)	0.58	0.21 (J)
8/9/2019			0.51	<2	0.22 (J)	0.9 (J)			
8/29/2019									
8/30/2019	0.17 (J)	<2	0.54 (J)	<2	0.41 (J)	0.85 (J)	0.18 (J)	0.5	0.21 (J)
3/16/2020	<2	<2	<2						<2
3/17/2020				<2	1.6	0.52 (J)	<2	0.38	
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									<2
11/5/2020	<2	<2							
11/9/2020			<2	<2		0.74 (J)			
11/10/2020					<2				
11/20/2020							<2	0.81	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-12 (bg)	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	0.047 (J)	0.041 (J)					
3/27/2019	<2 (D)	0.49 (D)					
4/3/2019	<2 (D)	0.086 (JD)					
4/4/2019							
4/5/2019			<2 (D)				
4/15/2019			<2				
4/16/2019	0.034 (J)	0.055 (J)					
5/2/2019			<2				
5/3/2019	0.042 (J)	0.058 (J)					
5/14/2019	0.039 (J)	0.071 (J)	<2				
5/28/2019							
5/29/2019	<2	0.042 (J)	<2				
6/12/2019	<2	0.037 (J)	<2				
6/19/2019			<2				
6/25/2019			0.32 (J)				
8/8/2019	0.051 (J)	0.072 (J)					
8/9/2019			<2				
8/29/2019	0.061 (J)	0.065 (J)					
8/30/2019			0.27 (J)				
3/16/2020							
3/17/2020	<2	0.036 (J)	<2				
7/21/2020				0.17	0.07 (J)	0.09 (J)	
7/30/2020							0.19
11/3/2020				<2			
11/4/2020					<2	0.24 (J)	<2
11/5/2020							
11/9/2020	<2						
11/10/2020							
11/20/2020		<2	<2				

Prediction Limit

Constituent: pH (SU) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-9	APMW-10	APMW-1R
4/24/2018	5.89	6.46	6.31						
4/25/2018				6.04	6.31	6.69	6.19	6.7	
6/13/2018							6.18	6.64	
6/14/2018	5.96	6.5	6.28	6.29	6.25	6.66			
7/23/2018						6.7	6.19	6.76	
7/24/2018	6.03	6.6	6.34	6.35	6.34				
9/1/2018	6.23	6.74	6.33	6.38				6.9	
9/6/2018					6.29	6.66	6.13		
10/1/2018	5.94	6.51	6.36						
10/2/2018				6.47	6.28	6.63	6.13	6.77	
11/1/2018						6.75	6.25	6.89	
11/2/2018	5.98	6.55	6.43	6.42	6.4				
12/6/2018			6.43	6.42	6.4	6.75	6.25	6.89	
12/7/2018	5.98	6.55							
2/13/2019	6.09	6.69	6.48	6.42	6.37	6.7	6.24	6.81	
3/16/2019									6.67
3/27/2019									6.59
4/3/2019									6.56
4/4/2019				6.35	6.33	6.72	6.17	6.74	
4/5/2019	6.03	6.7	6.33						
4/15/2019									6.68
4/16/2019									
5/2/2019									6.78
5/3/2019									
5/14/2019									6.7
5/28/2019									6.56
5/29/2019									
6/12/2019									6.69
6/19/2019									
6/25/2019									
8/8/2019	6.03	6.7					6.23	6.84	6.68
8/9/2019			6.69	6.42	6.34	6.74			
8/29/2019									
8/30/2019	6.1	6.75	6.68	6.47	6.31	6.68	6.1	7.09	6.72
3/16/2020	5.91	6.61	6.71						6.51
3/17/2020				6.32	6.57	6.69		6.93	
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									6.45
11/5/2020	5.92	6.58							
11/9/2020			6.37	6.37		6.74			
11/10/2020					6.37				
11/20/2020							6.23	6.94	

Prediction Limit

Constituent: pH (SU) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-12 (bg)	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	6.97	6.44					
3/27/2019	6.7	6.38					
4/3/2019	6.45	6.19					
4/4/2019							
4/5/2019			6.12				
4/15/2019			6.14				
4/16/2019	6.52	6.3					
5/2/2019			6.19				
5/3/2019	6.37	6.33					
5/14/2019	6.57	6.64	6.12				
5/28/2019							
5/29/2019	6.31	6.6	6.11				
6/12/2019	6.41	6.31	6.09				
6/19/2019			6.1				
6/25/2019			6.18				
8/8/2019	6.29	6.12					
8/9/2019			6.03				
8/29/2019	6.2	6.24					
8/30/2019			5.92				
3/16/2020							
3/17/2020	6.2	6.2	5.97				
7/21/2020				6.51	6.08	6.01	
7/30/2020							6.48
11/3/2020				6.51			
11/4/2020					6.03	6.01	6.58
11/5/2020							
11/9/2020	6.21						
11/10/2020							
11/20/2020		6.31	6.09				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-9	APMW-10	APMW-1R
4/24/2018	<5	1200	340						
4/25/2018				920	65	670	270	290	
6/13/2018							300	310	
6/14/2018	7.2	1200	350	980	81	650			
7/23/2018						610	280	300	
7/24/2018	2.7 (J)	1100	310	950	52				
9/1/2018	1.5 (J)	1200	300	980					290
9/6/2018					53	690	270		
10/1/2018	<5	1200	330						
10/2/2018				960	34	650	280	300	
11/1/2018						610	270	290	
11/2/2018	1.9 (J)	1000	310	860	35				
12/6/2018			300	990	65	660	300	290	
12/7/2018	<5	1100							
2/13/2019	1.5 (J)	1100	320	930	74	600	280	230	
3/16/2019									14
3/27/2019									19
4/3/2019									4.6 (J)
4/4/2019				1100	61	640	330	240	
4/5/2019	7	1200	330						
4/15/2019									8.6
4/16/2019									
5/2/2019									6
5/3/2019									
5/14/2019									5.8
5/28/2019									9.4
5/29/2019									
6/12/2019									8.8
6/19/2019									
6/25/2019									
8/29/2019									
8/30/2019	8.4	1100	330	940	83	620	280	160	13
3/16/2020	16	1100	330						23
3/17/2020				910	430	680	290	110	
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									10
11/5/2020	4.4 (J)	1000							
11/9/2020			320	1000		590			
11/10/2020					64				
11/20/2020							270	50	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-11 (bg)	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	0.88 (J)	3.6					
3/27/2019	1.3 (D)	0.81 (JD)					
4/3/2019	1.9 (D)	1.1 (D)					
4/4/2019							
4/5/2019			800 (D)				
4/15/2019			700				
4/16/2019	2.5	0.68 (J)					
5/2/2019			810				
5/3/2019	1.3	1.1					
5/14/2019	2.2	1.3	810				
5/28/2019							
5/29/2019	1.2	2.1	830				
6/12/2019	1.1	1.9	830				
6/19/2019			810				
6/25/2019			800				
8/29/2019	1.1	2.3					
8/30/2019			800				
3/16/2020							
3/17/2020	3.2	3.7	590				
7/21/2020				52.9	713	802	
7/30/2020							33.4
11/3/2020				550			
11/4/2020					670	1700	440
11/5/2020							
11/9/2020		0.51 (J)					
11/10/2020							
11/20/2020	0.79 (J)		790				

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-10	APMW-5	APMW-8	APMW-9	APMW-7	APMW-12 (bg)
4/24/2018	4800	18000	7700						
4/25/2018				2500	16000	6400	5800	7500	
6/13/2018				2900			5800		
6/14/2018	5700	13000	7200		14000	6000		7000	
7/23/2018				3100		7200	5800		
7/24/2018	6000	18000	7000		15000			7200	
9/1/2018	6300	20000	7800	2700	16000				
9/6/2018						7800	6300	7000	
10/1/2018	6500	20000	8400						
10/2/2018				2900	17000	8200	6500	7400	
11/1/2018				2700		7300	5000		
11/2/2018	3800	19000	7600		15000			6900	
12/6/2018			7400	2600	14000	8300	6000	6900	
12/7/2018	5300	13000							
2/13/2019	6200	16000	7700	2800	16000	8900	6700	8200	
3/16/2019									150
3/27/2019									110 (D)
4/3/2019									150 (D)
4/4/2019				2500	18000	7700	4500	8100	
4/5/2019	5000	18000	7000						
4/15/2019									
4/16/2019									150
5/2/2019									
5/3/2019									130
5/14/2019									150
5/28/2019									
5/29/2019									180
6/12/2019									130
6/19/2019									
6/25/2019									
8/29/2019									110
8/30/2019	4400	18000	5800	2200	16000	6300	4900	6900	
3/16/2020	4400	16000	6100						
3/17/2020				2700	15000	6400	5400	6900	120
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									
11/5/2020	4100	19000							
11/9/2020			5400		14000	7100			
11/10/2020								7100	
11/20/2020				2100			6000		160

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/4/2021 1:32 PM View: PLs Interwell
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-1R	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	120	3300					
3/27/2019	63 (D)	2900					
4/3/2019	100 (D)	3600					
4/4/2019							
4/5/2019			7800 (D)				
4/15/2019		3300	6600				
4/16/2019	110						
5/2/2019		3300	7400				
5/3/2019	91						
5/14/2019	120	3600	8300				
5/28/2019		3500					
5/29/2019	140		8600				
6/12/2019	100		6800				
6/19/2019			7100				
6/25/2019			8500				
8/29/2019	73						
8/30/2019		3500	6600				
3/16/2020		4500					
3/17/2020	95		7200				
7/21/2020				5400	6350	3760	
7/30/2020							5020
11/3/2020				9200			
11/4/2020		5000			6500	5400	8500
11/5/2020							
11/9/2020	68						
11/10/2020							
11/20/2020			7400				

Trend Tests

State Trend Test Summary - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 2:09 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	APMW-4	-0.1929	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-21.43	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.6605	-49	-38	Yes	12	0	n/a	n/a	0.01	NP

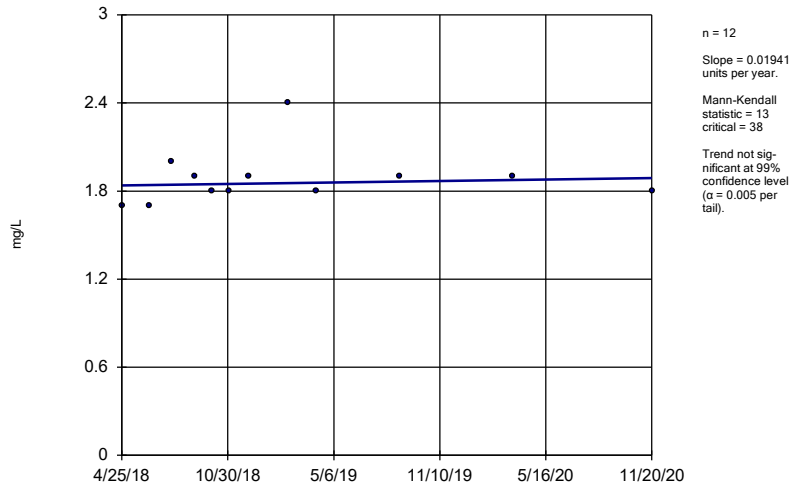
State Trend Test Summary - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 2:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-10	0.01941	13	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-11 (bg)	0.008002	15	34	No	11	45.45	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-12 (bg)	0.03739	34	34	No	11	27.27	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	1.941	32	34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-2	-0.2092	-29	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-3	-0.102	-7	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-4	-0.1929	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-5	-0.4237	-18	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-6R	1.869	19	34	No	11	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-8	-1.226	-22	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-9	0	-3	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-9.733	-34	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-12 (bg)	-0.6114	-16	-34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	46.79	29	34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-2	-2.086	-3	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-3	0	-6	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-21.43	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-5	-13.68	-21	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-6R	39.25	16	34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-8	-38.19	-34	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-9	-8.238	-19	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-11 (bg)	0	-3	-34	No	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-12 (bg)	0	3	34	No	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-539.6	-30	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-5	166.4	19	38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.1088	41	43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.6605	-49	-38	Yes	12	0	n/a	n/a	0.01	NP
pH (SU)	APMW-12 (bg)	-0.1724	-17	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-11 (bg)	-16.29	-11	-34	No	11	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-12 (bg)	0	-1	-34	No	11	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-3	0	0	38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-5	0	-2	-38	No	12	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

APMW-10

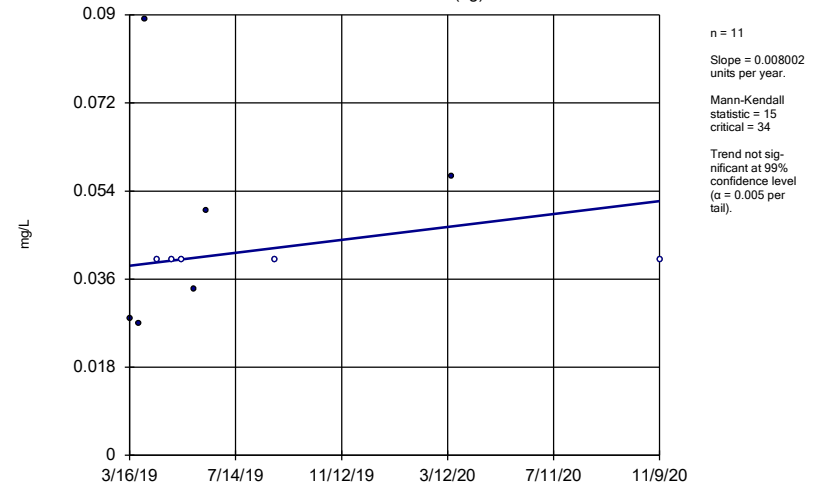


Constituent: Boron Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

APMW-11 (bg)

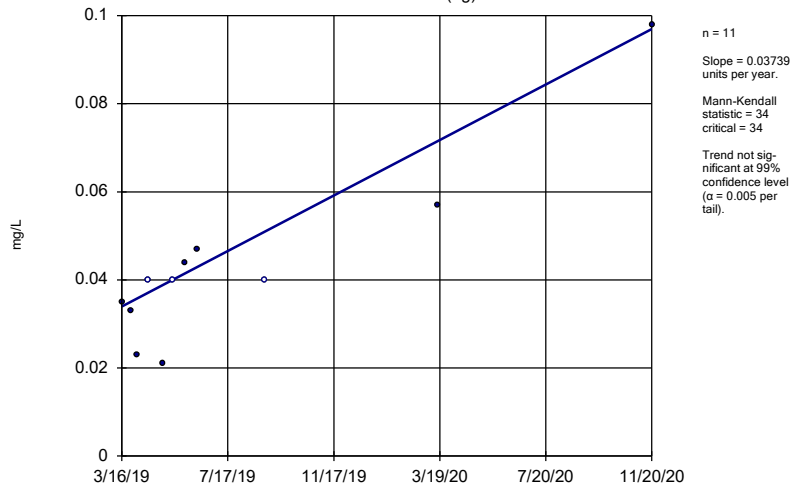


Constituent: Boron Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

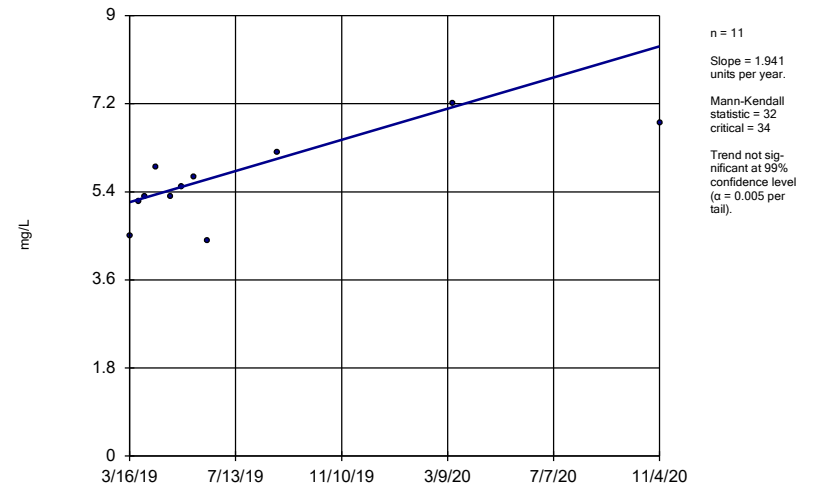
APMW-12 (bg)



Constituent: Boron Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

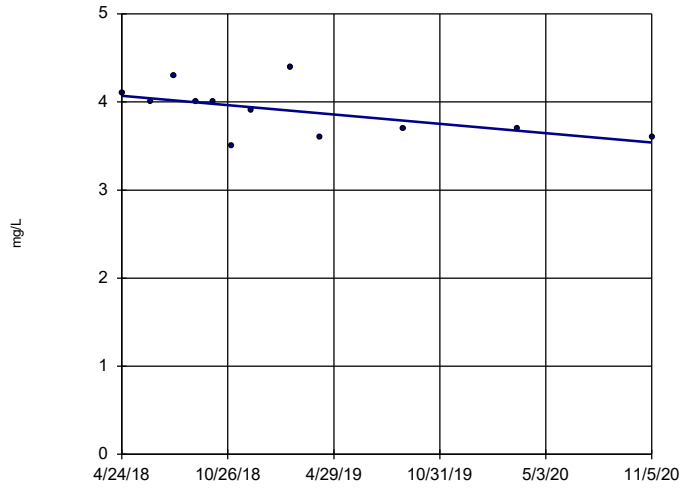
APMW-1R



Constituent: Boron Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-2

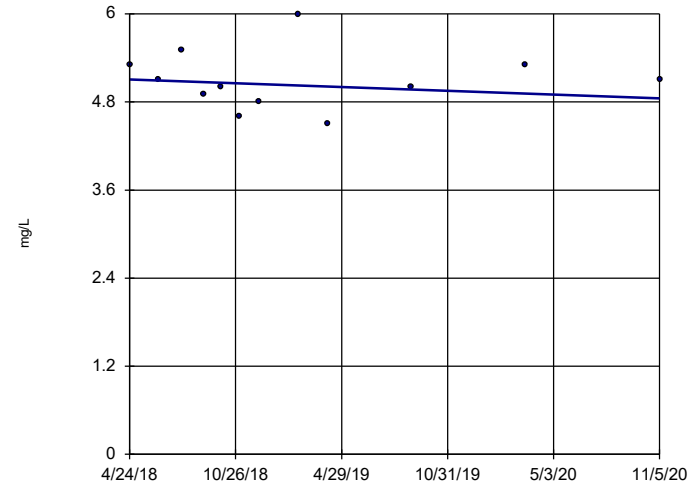


n = 12
 Slope = -0.2092 units per year.
 Mann-Kendall statistic = -29
 critical = -38
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-3

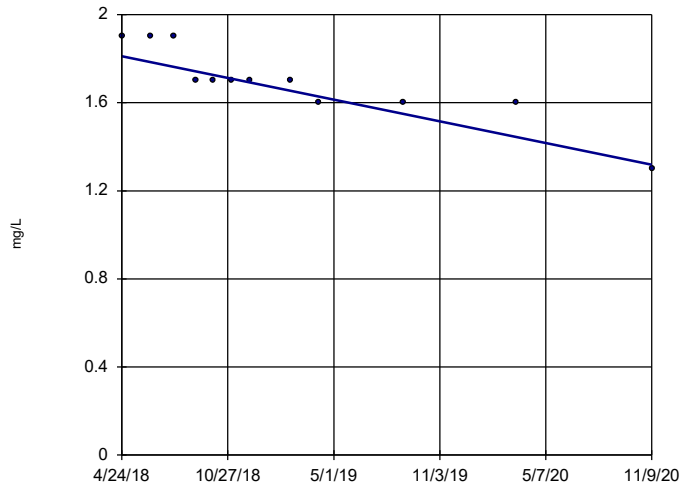


n = 12
 Slope = -0.102 units per year.
 Mann-Kendall statistic = -7
 critical = -38
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-4

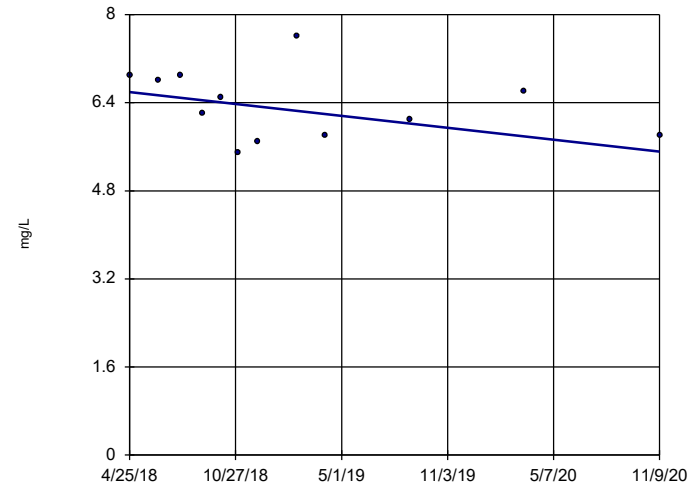


n = 12
 Slope = -0.1929 units per year.
 Mann-Kendall statistic = -50
 critical = -38
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-5

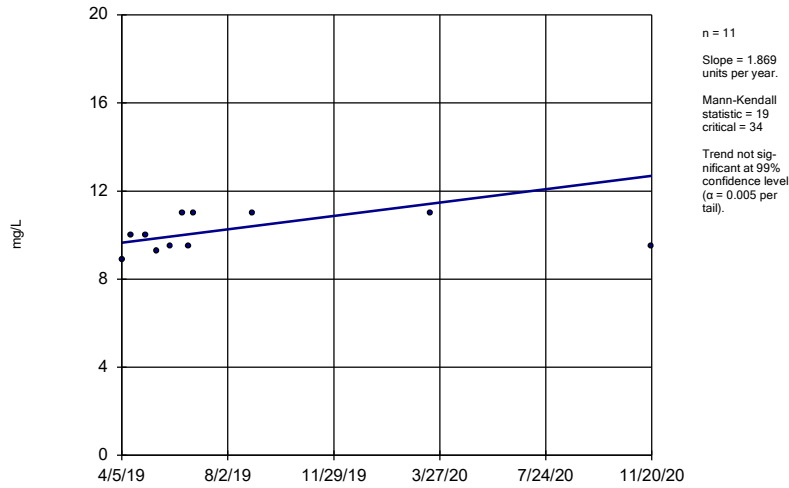


n = 12
 Slope = -0.4237 units per year.
 Mann-Kendall statistic = -18
 critical = -38
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

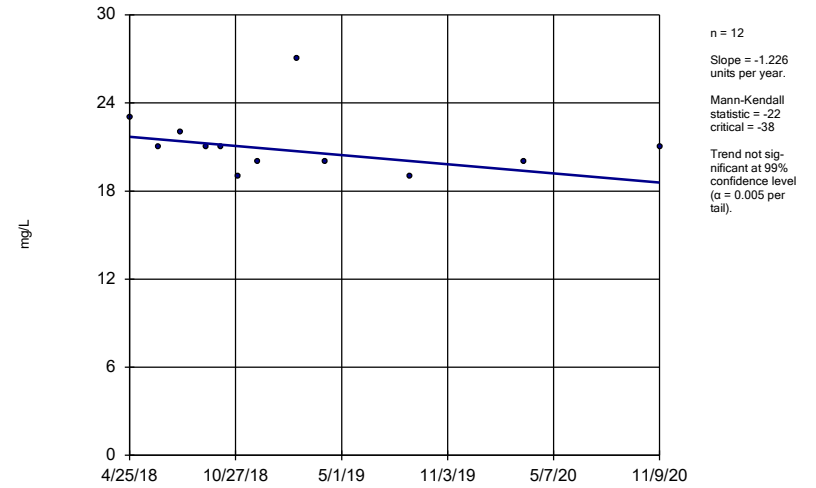
APMW-6R



Constituent: Boron Analysis Run 2/4/2021 2:07 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

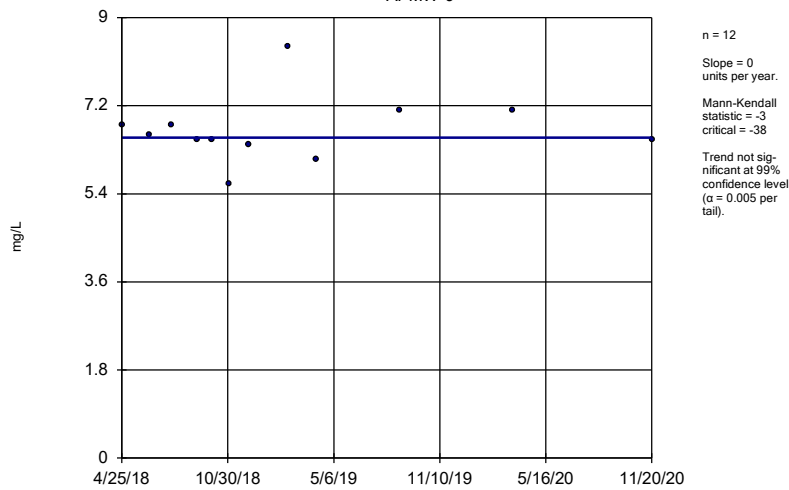
APMW-8



Constituent: Boron Analysis Run 2/4/2021 2:07 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

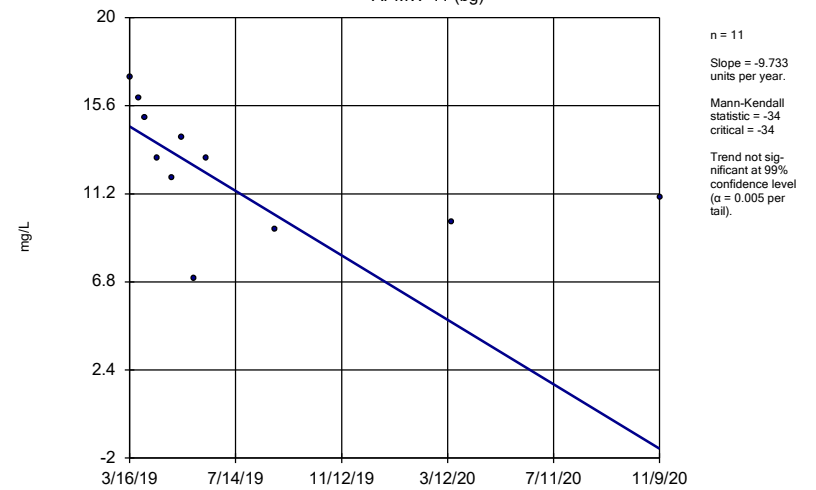
APMW-9



Constituent: Boron Analysis Run 2/4/2021 2:07 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

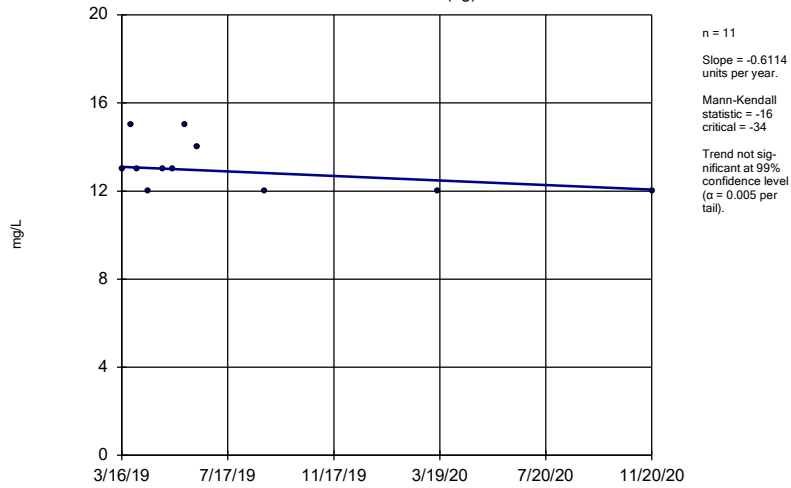
APMW-11 (bg)



Constituent: Calcium Analysis Run 2/4/2021 2:07 PM View: Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

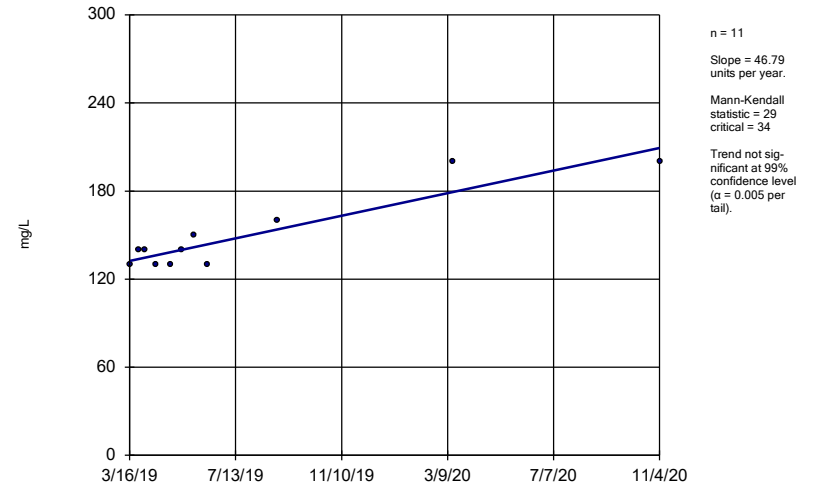
APMW-12 (bg)



Constituent: Calcium Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

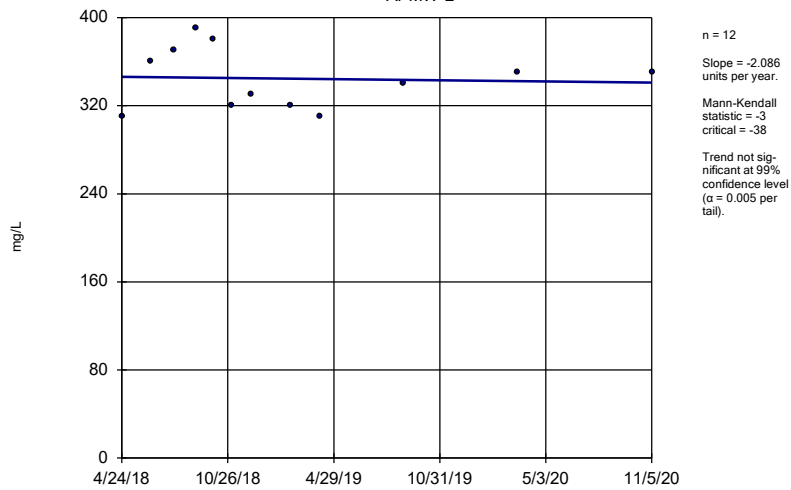
APMW-1R



Constituent: Calcium Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

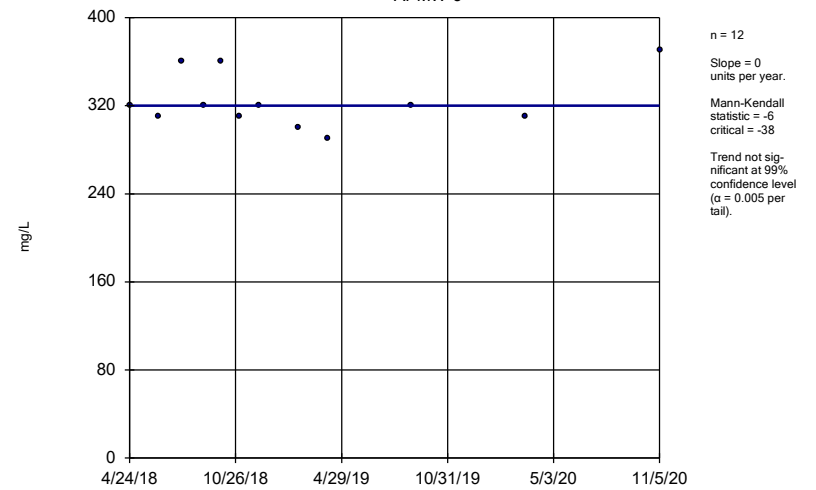
APMW-2



Constituent: Calcium Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

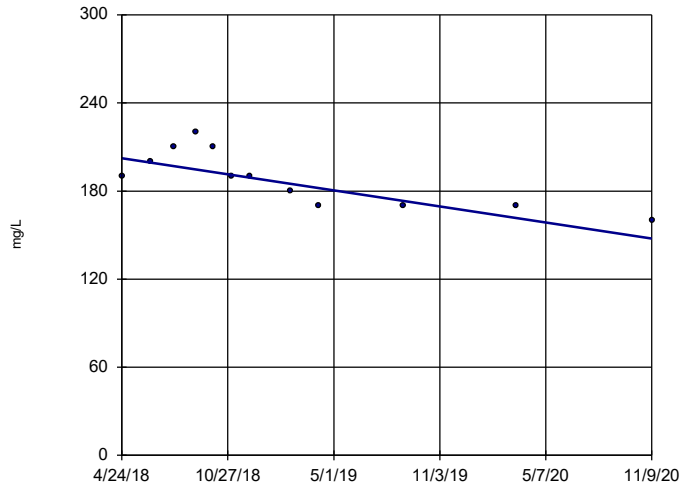
APMW-3



Constituent: Calcium Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-4

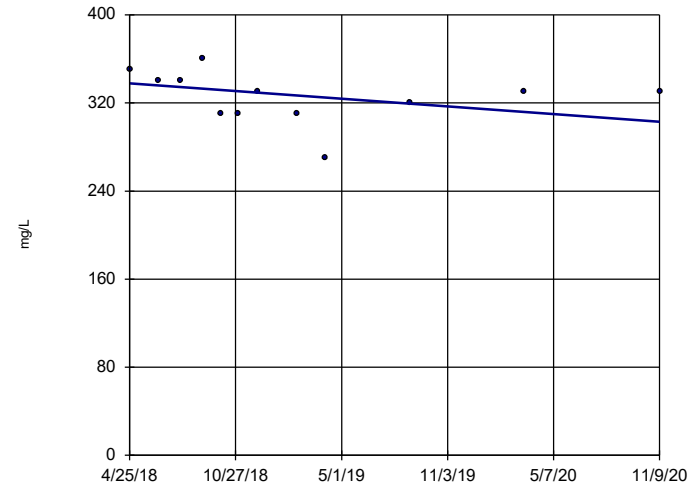


n = 12
 Slope = -21.43
 units per year.
 Mann-Kendall
 statistic = -43
 critical = -38
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-5

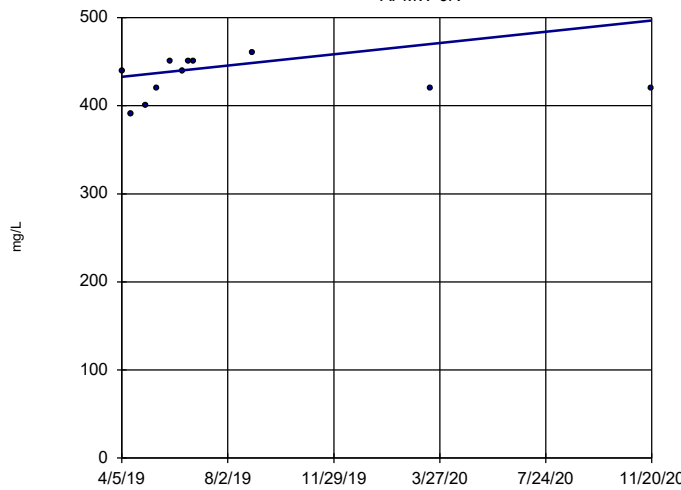


n = 12
 Slope = -13.68
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-6R

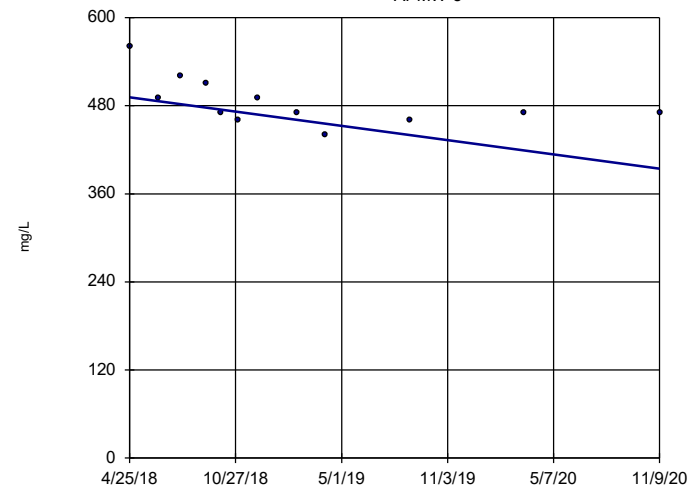


n = 11
 Slope = 39.25
 units per year.
 Mann-Kendall
 statistic = 16
 critical = 34
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-8

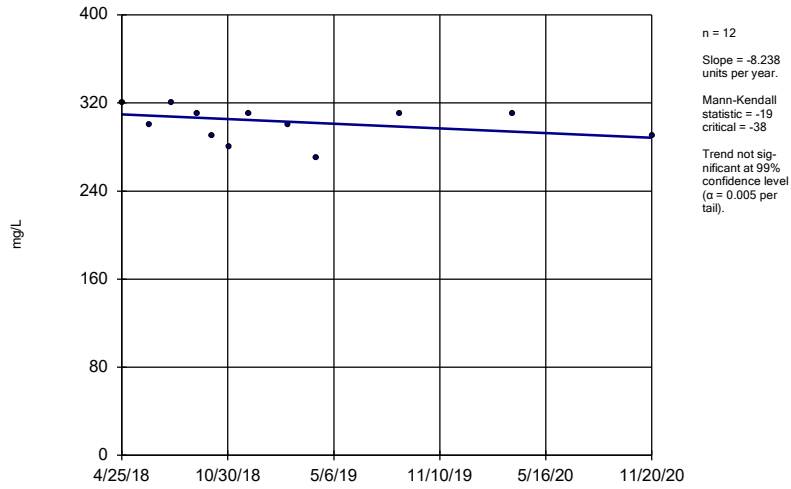


n = 12
 Slope = -38.19
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

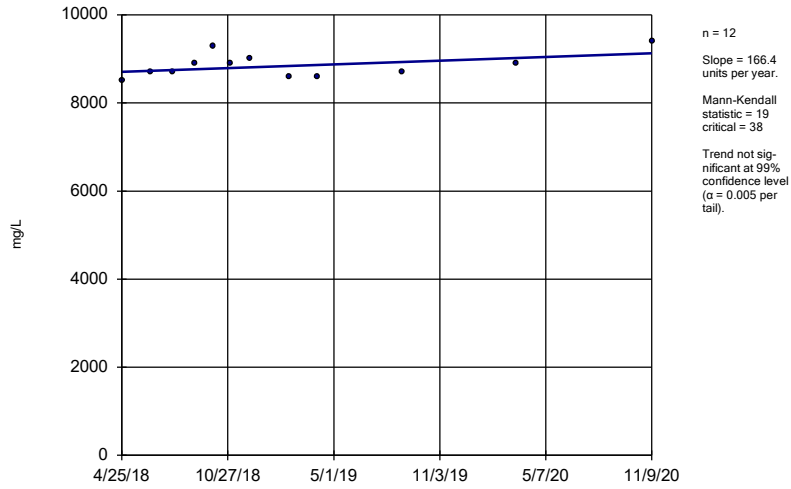
Sen's Slope Estimator

APMW-9



Sen's Slope Estimator

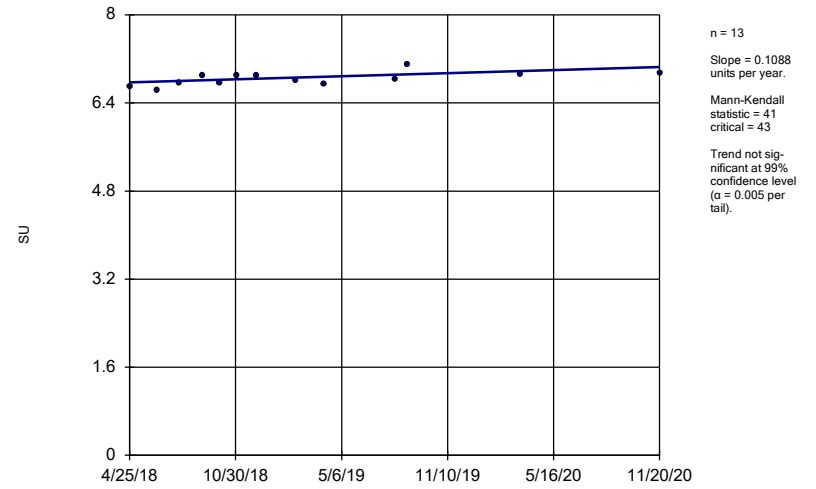
APMW-5



Constituent: Chloride Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

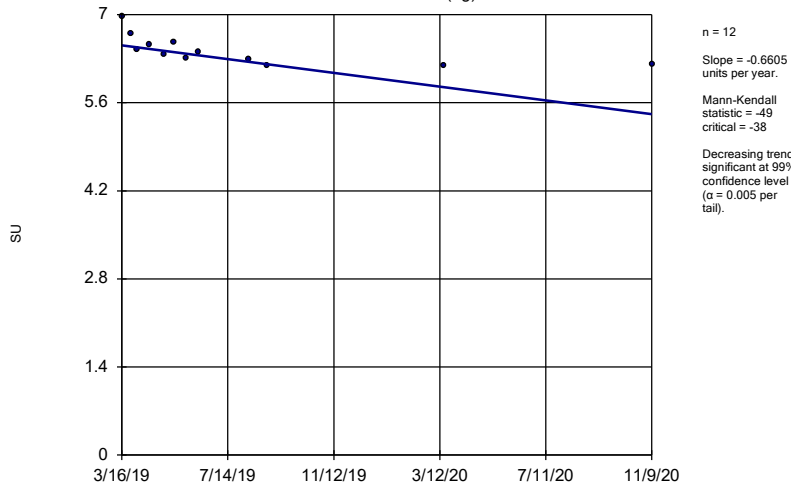
APMW-10



Constituent: pH Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

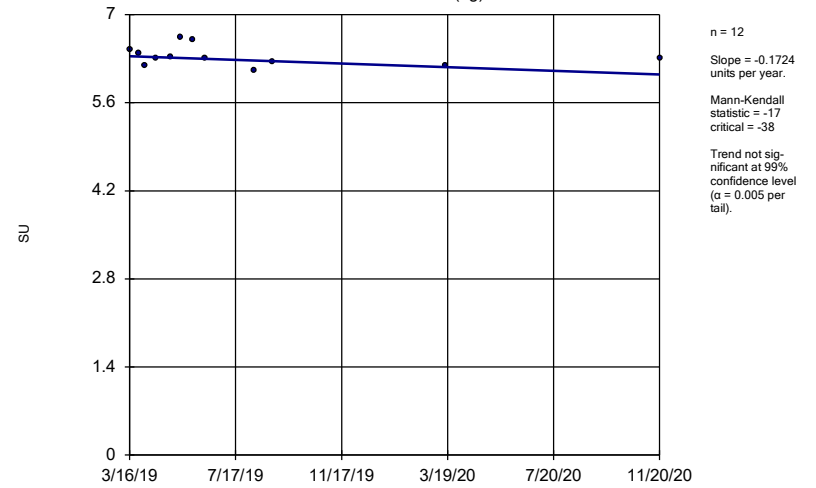
APMW-11 (bg)



Constituent: pH Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-12 (bg)



Constituent: pH Analysis Run 2/4/2021 2:07 PM View: Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Confidence Intervals - Appendix IV

Appendix IV Confidence Interval Summary Table - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	APMW-10	0.1213	0.09241	0.01	Yes 12	0.1068	0.01838	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-3	0.08479	0.06654	0.01	Yes 12	0.07567	0.01163	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01843	0.01707	0.01	Yes 12	0.01775	0.000866	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2439	0.2144	0.01	Yes 12	0.2292	0.01881	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.164	0.1208	0.01	Yes 12	0.1424	0.02752	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08743	0.05507	0.01	Yes 12	0.07125	0.02062	0	None	No	0.01	Param.
Barium (mg/L)	APMW-2	3.367	2.862	2	Yes 12	3.117	0.3326	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	8.627	6.039	5	Yes 12	7.333	1.649	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.06	17.22	5	Yes 12	18.64	1.807	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	7.037	5.641	5	Yes 12	6.339	0.8893	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.135	5.924	5	Yes 12	6.529	0.7716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	7.429	6.666	5	Yes 12	7.048	0.4868	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.091	0.07	0.04	Yes 12	0.07942	0.0119	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.077	0.052	0.04	Yes 12	0.05892	0.0097	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.069	0.044	0.04	Yes 12	0.05042	0.01023	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05926	0.05207	0.04	Yes 12	0.05567	0.004579	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.13	0.068	0.04	Yes 12	0.09458	0.02566	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-6R	0.4382	0.3585	0.1	Yes 12	0.3983	0.05078	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-8	0.1631	0.1112	0.1	Yes 12	0.1372	0.03309	0	None	No	0.01	Param.

Appendix IV Confidence Interval Summary Table - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	APMW-2	0.002	0.0014	0.006	No 12	0.00195	0.0001732	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-10	0.1213	0.09241	0.01	Yes 12	0.1068	0.01838	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-1R	0.002217	0.001056	0.01	No 12	0.001637	0.0007401	8.333	None	No	0.01	Param.
Arsenic (mg/L)	APMW-2	0.00094	0.00035	0.01	No 12	0.000605	0.0002425	66.67	None	No	0.01	NP (normality)
Arsenic (mg/L)	APMW-3	0.08479	0.06654	0.01	Yes 12	0.07567	0.01163	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01843	0.01707	0.01	Yes 12	0.01775	0.000866	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2439	0.2144	0.01	Yes 12	0.2292	0.01881	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.164	0.1208	0.01	Yes 12	0.1424	0.02752	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-7	0.00215	0.0007131	0.01	No 12	0.001432	0.0009158	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08743	0.05507	0.01	Yes 12	0.07125	0.02062	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-9	0.00143	0.001086	0.01	No 12	0.001258	0.0002193	0	None	No	0.01	Param.
Barium (mg/L)	APMW-10	0.2668	0.2282	2	No 12	0.2475	0.02454	0	None	No	0.01	Param.
Barium (mg/L)	APMW-1R	1.135	0.9184	2	No 12	1.03	0.1497	0	None	ln(x)	0.01	Param.
Barium (mg/L)	APMW-2	3.367	2.862	2	Yes 12	3.117	0.3326	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	APMW-3	0.11	0.097	2	No 12	0.1031	0.006708	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-4	0.5051	0.3332	2	No 12	0.4192	0.1095	0	None	No	0.01	Param.
Barium (mg/L)	APMW-5	0.108	0.09397	2	No 12	0.101	0.008954	0	None	No	0.01	Param.
Barium (mg/L)	APMW-6R	0.06739	0.05461	2	No 12	0.061	0.008146	0	None	No	0.01	Param.
Barium (mg/L)	APMW-7	0.862	0.613	2	No 12	0.7375	0.1586	0	None	No	0.01	Param.
Barium (mg/L)	APMW-8	0.2214	0.2036	2	No 12	0.2125	0.01138	0	None	No	0.01	Param.
Barium (mg/L)	APMW-9	0.48	0.42	2	No 12	0.4408	0.02353	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	APMW-10	0.0025	0.00043	0.004	No 12	0.002327	0.0005976	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-1R	0.0025	0.00019	0.004	No 12	0.002307	0.0006668	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-2	0.0025	0.00061	0.004	No 12	0.002153	0.0008137	83.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-3	0.0025	0.00018	0.004	No 12	0.002307	0.0006697	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-6R	0.0025	0.00036	0.004	No 12	0.002322	0.0006178	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-7	0.0025	0.00025	0.004	No 12	0.002312	0.0006495	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-8	0.0025	0.00038	0.004	No 12	0.002323	0.000612	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-9	0.0025	0.00049	0.004	No 12	0.002332	0.0005802	91.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-1R	0.0025	0.00045	0.005	No 12	0.002329	0.0005918	91.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-6R	0.0025	0.00026	0.005	No 12	0.002117	0.0008956	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-1R	0.002	0.002	0.1	No 10	0.00212	0.0003795	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	APMW-3	0.002	0.002	0.1	No 10	0.00194	0.0001897	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	APMW-4	0.002497	0.001543	0.1	No 10	0.00202	0.000535	20	None	No	0.01	Param.
Chromium (mg/L)	APMW-5	0.00266	0.001459	0.1	No 10	0.00178	0.0003967	50	Cohen's	No	0.01	Param.
Chromium (mg/L)	APMW-7	0.002	0.0014	0.1	No 10	0.00166	0.0003098	40	None	No	0.011	NP (normality)
Chromium (mg/L)	APMW-8	0.002	0.002	0.1	No 10	0.00206	0.0004427	80	None	No	0.011	NP (NDs)
Cobalt (mg/L)	APMW-10	0.0025	0.00012	0.006	No 12	0.0021	0.0009338	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-1R	0.0025	0.00017	0.006	No 12	0.001082	0.001053	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-3	0.002789	0.002295	0.006	No 12	0.002542	0.0003147	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-4	0.003817	0.003216	0.006	No 12	0.003517	0.0003834	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-5	0.0025	0.000079	0.006	No 12	0.002096	0.0009432	83.33	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-6R	0.003784	0.001883	0.006	No 12	0.002833	0.001212	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-7	0.0025	0.00024	0.006	No 12	0.001574	0.001145	58.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-9	0.0025	0.000089	0.006	No 12	0.002098	0.0009395	83.33	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	APMW-10	3.231	2.469	5	No 12	2.85	0.4862	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	8.627	6.039	5	Yes 12	7.333	1.649	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.06	17.22	5	Yes 12	18.64	1.807	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	7.037	5.641	5	Yes 12	6.339	0.8893	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-4	2.752	1.816	5	No 12	2.284	0.5962	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-5	4.667	3.642	5	No 12	4.154	0.6533	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-6R	3.37	2.889	5	No 12	3.129	0.3066	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.135	5.924	5	Yes 12	6.529	0.7716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-8	4.033	3.232	5	No 12	3.633	0.5108	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	7.429	6.666	5	Yes 12	7.048	0.4868	0	None	No	0.01	Param.

Appendix IV Confidence Interval Summary Table - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	APMW-10	0.7905	0.5834	4	No 13	0.6869	0.1392	0	None	No	0.01	Param.
Fluoride (mg/L)	APMW-1R	2	0.14	4	No 12	1.238	0.9426	58.33	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-2	2	0.06	4	No 12	0.4142	0.7421	16.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-3	2	0.35	4	No 13	0.8362	0.6786	23.08	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-4	0.58	0.48	4	No 13	0.7354	0.5648	15.38	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-5	2	0.07	4	No 12	0.8867	0.9828	41.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-6R	2	0.32	4	No 12	1.716	0.6638	83.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-7	1.6	0.11	4	No 13	0.5546	0.7582	15.38	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-8	1.035	0.7905	4	No 13	0.9038	0.1843	0	None	x^2	0.01	Param.
Fluoride (mg/L)	APMW-9	2	0.06	4	No 12	0.5692	0.8641	25	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-10	0.0011	0.0006	0.015	No 12	0.000975	0.0001215	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-3	0.001	0.00048	0.015	No 12	0.0009567	0.0001501	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-4	0.001	0.00062	0.015	No 12	0.0009683	0.0001097	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-5	0.0011	0.00041	0.015	No 12	0.0009058	0.0002452	75	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-6R	0.001	0.00032	0.015	No 12	0.0009433	0.0001963	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-7	0.0019	0.001	0.015	No 12	0.001075	0.0002598	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-8	0.0013	0.001	0.015	No 12	0.001075	0.0001865	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-9	0.001	0.00039	0.015	No 12	0.0008767	0.0002933	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	APMW-10	0.02059	0.01182	0.04	No 12	0.01667	0.007426	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	APMW-1R	0.01329	0.01045	0.04	No 12	0.01146	0.003071	8.333	None	x^3	0.01	Param.
Lithium (mg/L)	APMW-2	0.02837	0.02213	0.04	No 12	0.02525	0.00398	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.091	0.07	0.04	Yes 12	0.07942	0.0119	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.077	0.052	0.04	Yes 12	0.05892	0.0097	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.069	0.044	0.04	Yes 12	0.05042	0.01023	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05926	0.05207	0.04	Yes 12	0.05567	0.004579	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-7	0.0048	0.0021	0.04	No 11	0.003255	0.001533	27.27	None	No	0.006	NP (Cohens/xfrm)
Lithium (mg/L)	APMW-8	0.13	0.068	0.04	Yes 12	0.09458	0.02566	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-9	0.0053	0.0025	0.04	No 11	0.003845	0.001542	18.18	None	No	0.006	NP (Cohens/xfrm)
Mercury (mg/L)	APMW-10	0.0002	0.0002	0.002	No 10	0.0001885	0.00003637	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	APMW-1R	0.0002	0.0002	0.002	No 10	0.000195	0.00001581	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	APMW-5	0.0002	0.0002	0.002	No 10	0.0001893	0.00003384	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	APMW-7	0.0002	0.0002	0.002	No 10	0.000189	0.00003479	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	APMW-8	0.0002	0.0002	0.002	No 10	0.0001877	0.0000389	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	APMW-9	0.0002	0.0002	0.002	No 10	0.000215	0.00004743	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	APMW-10	0.108	0.08362	0.1	No 12	0.09525	0.01673	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	APMW-2	0.015	0.00079	0.1	No 12	0.01382	0.004102	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-3	0.07002	0.05982	0.1	No 12	0.06492	0.006501	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-4	0.01043	0.008256	0.1	No 12	0.009342	0.001383	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-5	0.107	0.06447	0.1	No 12	0.08575	0.02713	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-6R	0.4382	0.3585	0.1	Yes 12	0.3983	0.05078	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-7	0.015	0.0047	0.1	No 12	0.01008	0.005342	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-8	0.1631	0.1112	0.1	Yes 12	0.1372	0.03309	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-9	0.015	0.00093	0.1	No 12	0.01265	0.005483	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-10	0.005	0.00035	0.05	No 12	0.003858	0.002066	75	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-2	0.005	0.00061	0.05	No 12	0.003892	0.002007	75	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-3	0.005	0.001	0.05	No 12	0.002847	0.001924	41.67	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-4	0.005	0.00055	0.05	No 12	0.003882	0.002023	75	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-5	0.005	0.0006	0.05	No 12	0.003909	0.001974	75	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-7	0.005	0.00039	0.05	No 12	0.003851	0.002079	75	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-8	0.005	0.00049	0.05	No 12	0.003876	0.002034	75	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-9	0.005	0.00041	0.05	No 12	0.003874	0.00204	75	None	No	0.01	NP (normality)
Thallium (mg/L)	APMW-10	0.001	0.00058	0.002	No 12	0.0008942	0.0002636	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-1R	0.001	0.00019	0.002	No 12	0.0009325	0.0002338	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-2	0.001	0.00084	0.002	No 12	0.0009867	0.00004619	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-3	0.001	0.00012	0.002	No 12	0.0009267	0.000254	91.67	None	No	0.01	NP (NDs)

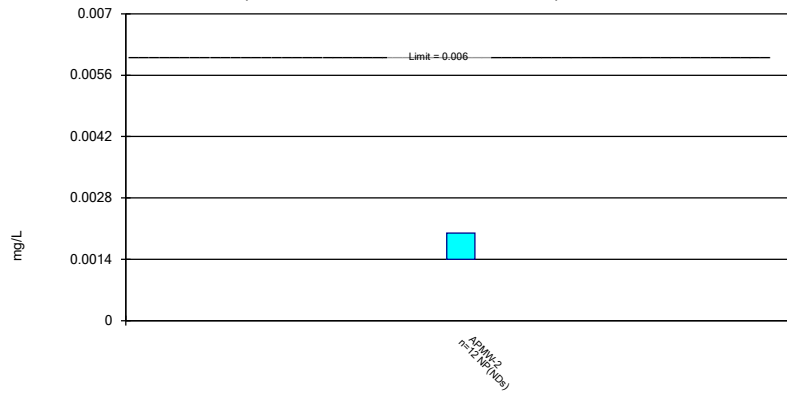
Appendix IV Confidence Interval Summary Table - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 2/4/2021, 4:56 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Thallium (mg/L)	APMW-8	0.0013	0.00025	0.002	No 12	0.0009625	0.0002404	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-9	0.0016	0.001	0.002	No 12	0.00105	0.0001732	91.67	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

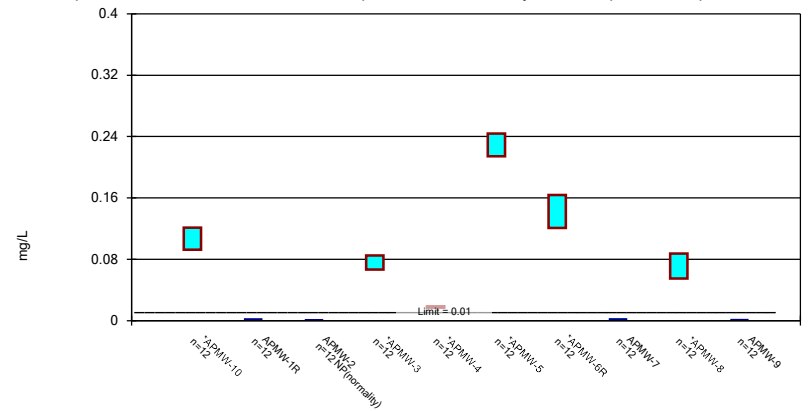
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Constituent: Antimony Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

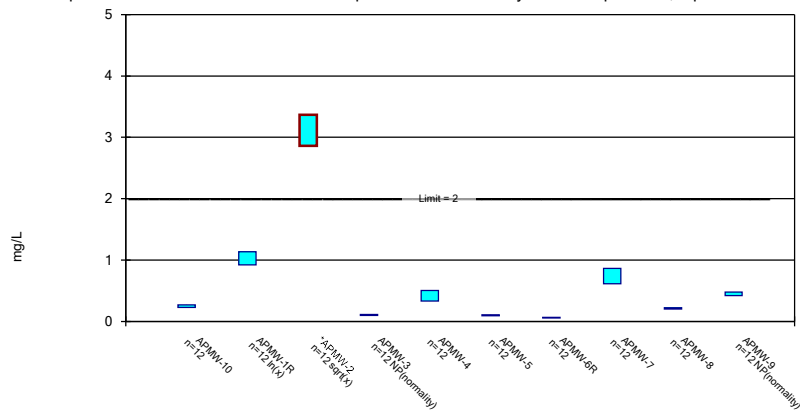
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Constituent: Arsenic Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

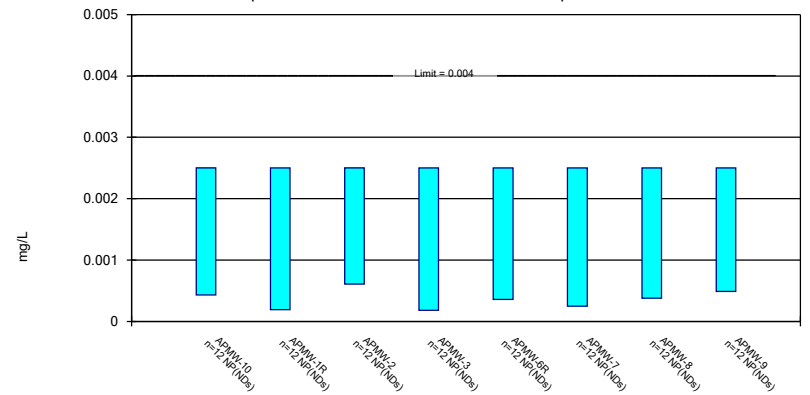
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Constituent: Barium Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

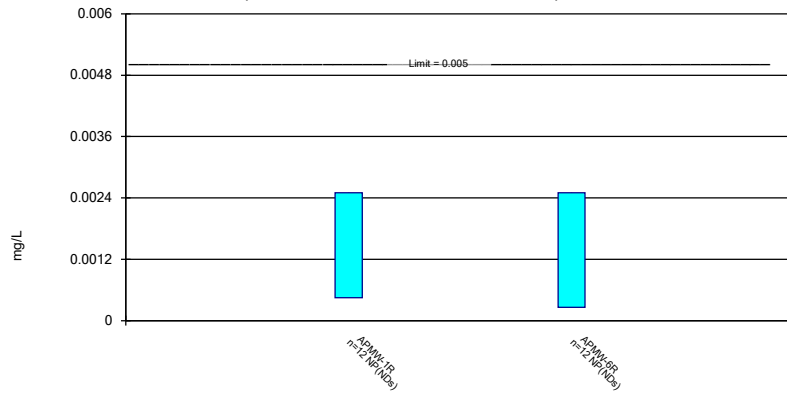
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

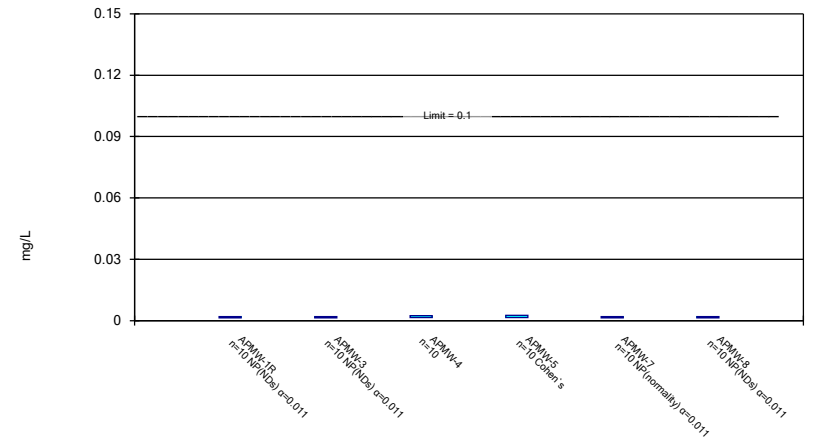
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Constituent: Cadmium Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

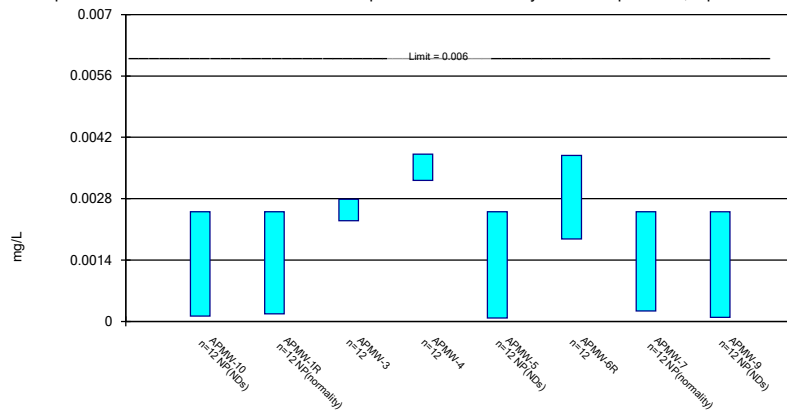
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

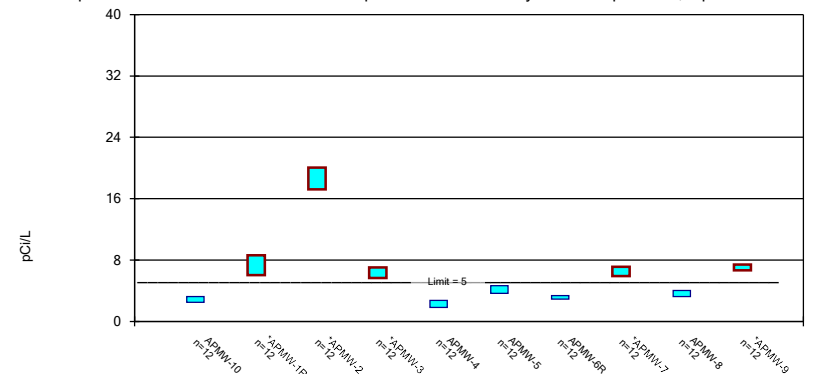
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Constituent: Cobalt Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric Confidence Interval

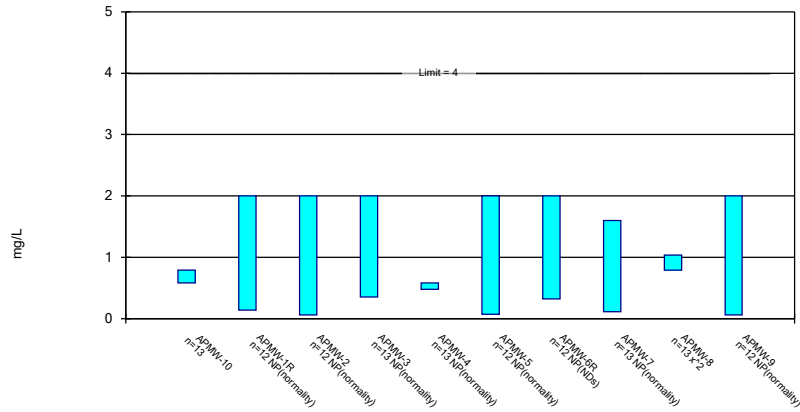
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

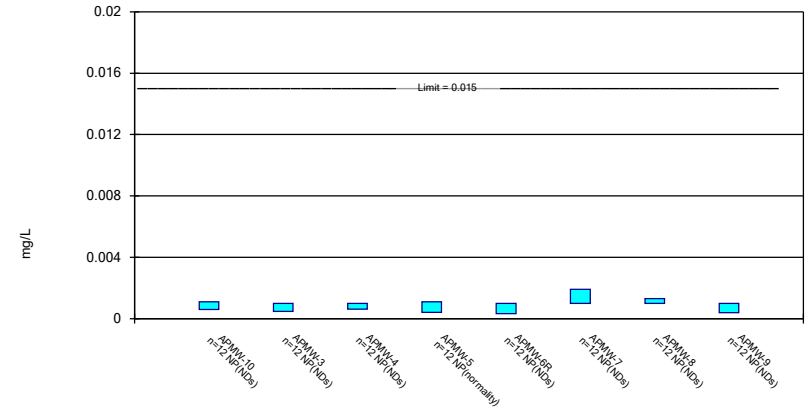
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

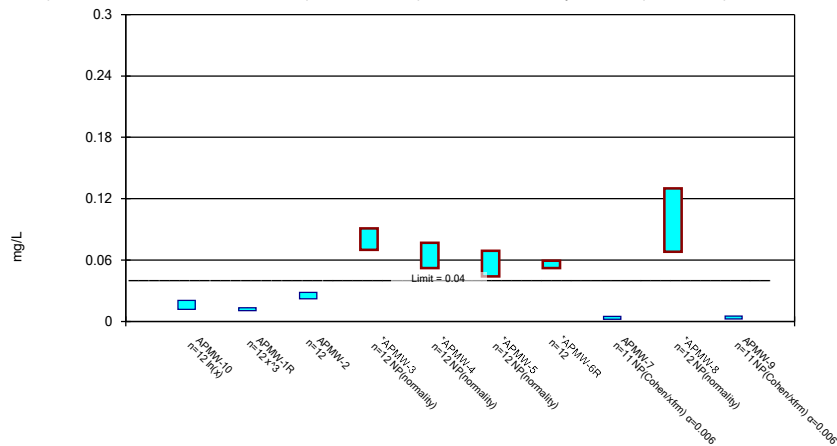
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

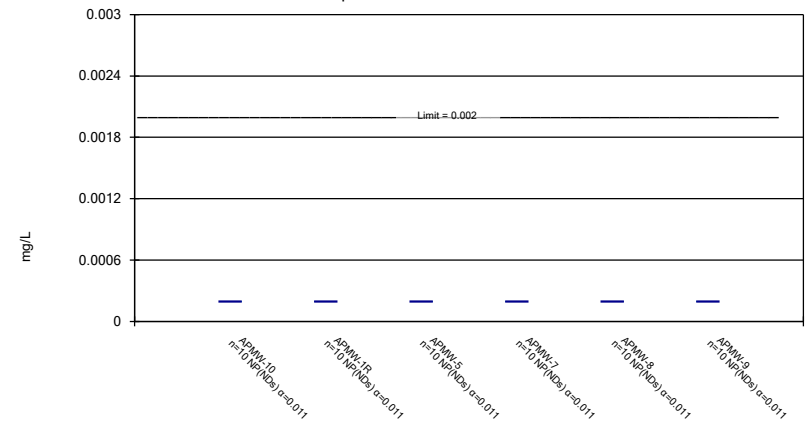
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

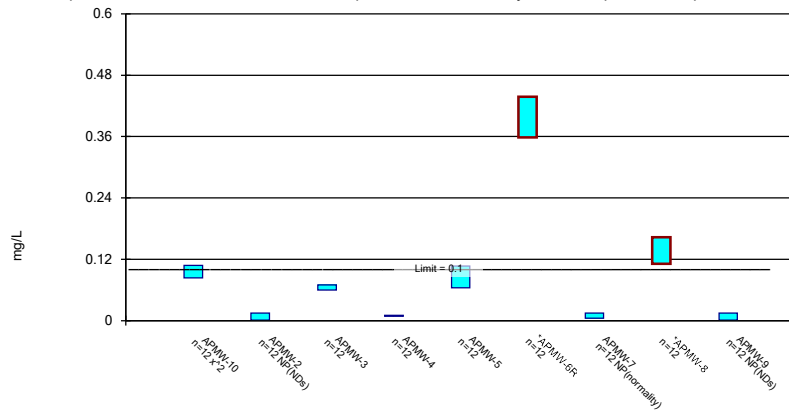
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

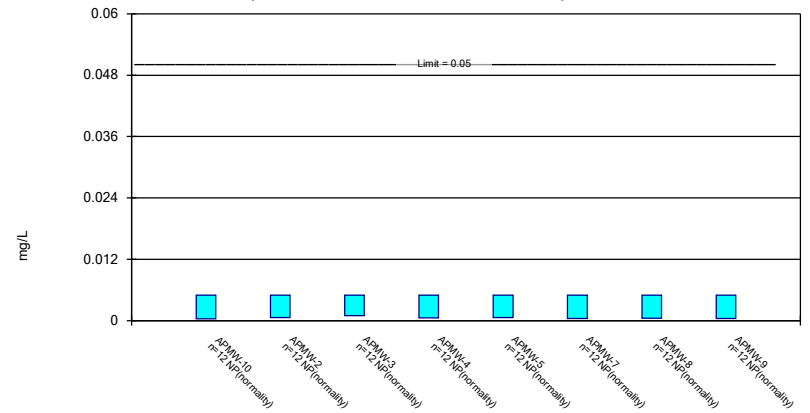
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

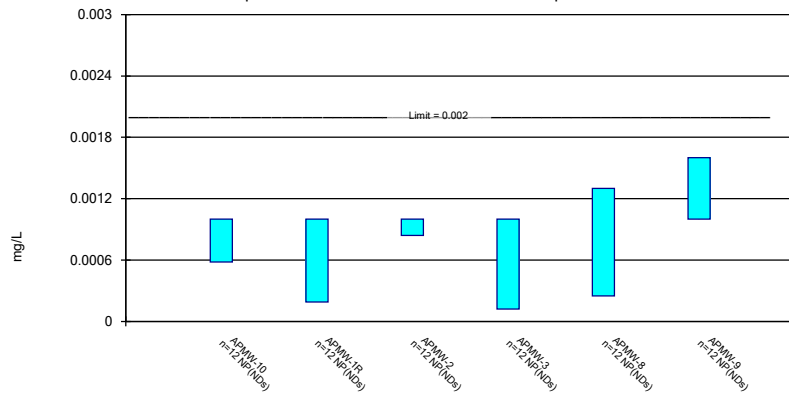
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

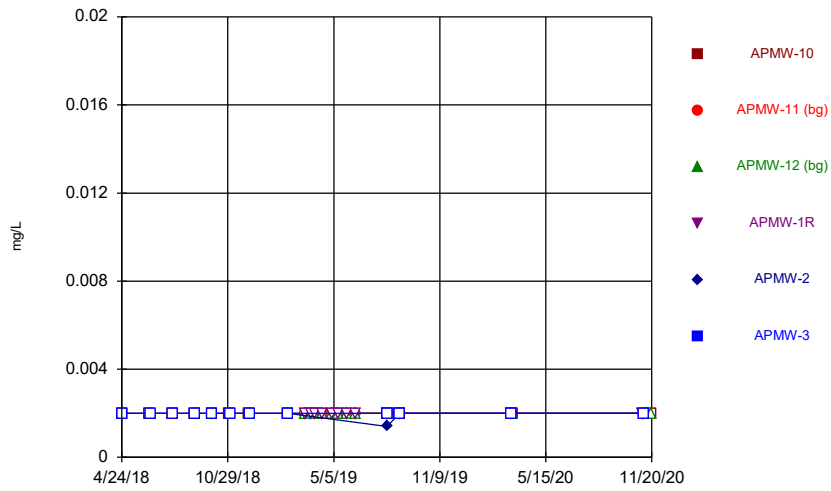
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 2/4/2021 4:48 PM View: Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

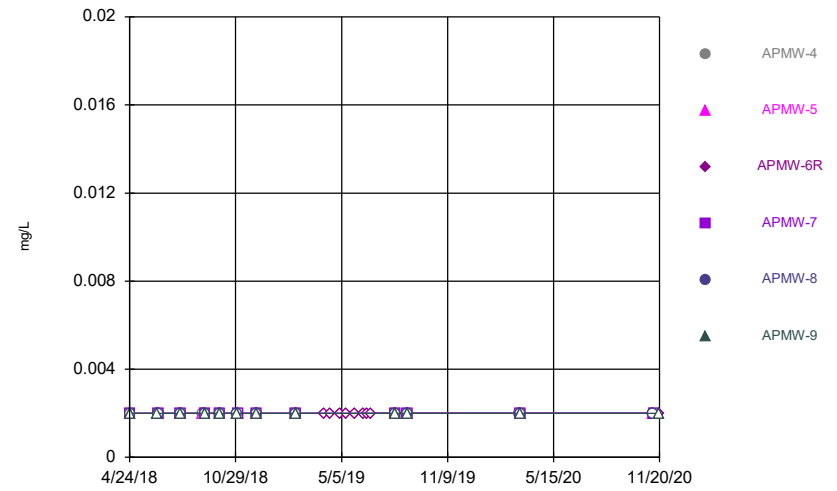
Time Series

Time Series



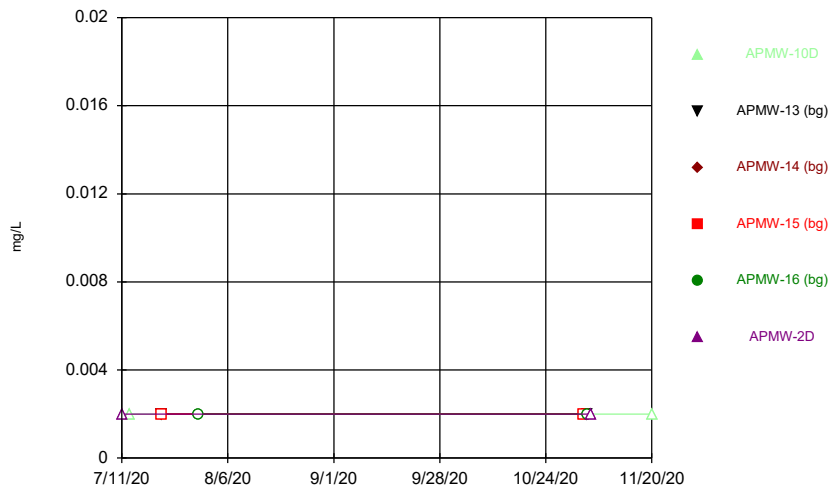
Constituent: Antimony Analysis Run 2/4/2021 1:41 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



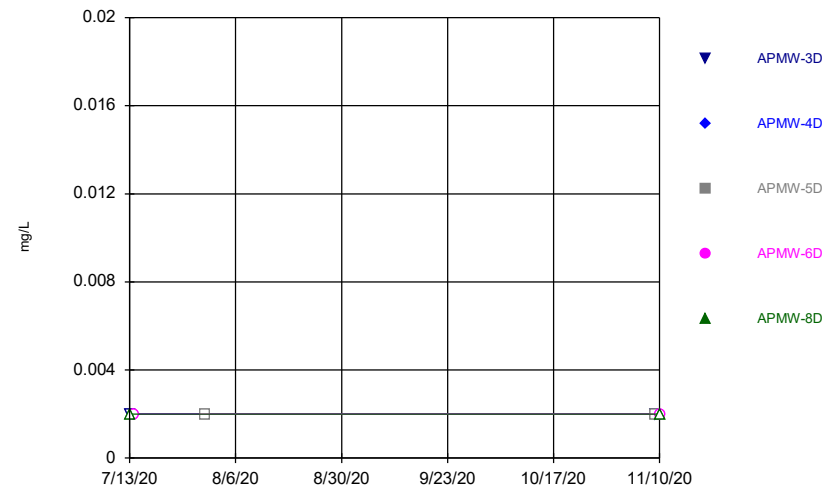
Constituent: Antimony Analysis Run 2/4/2021 1:41 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



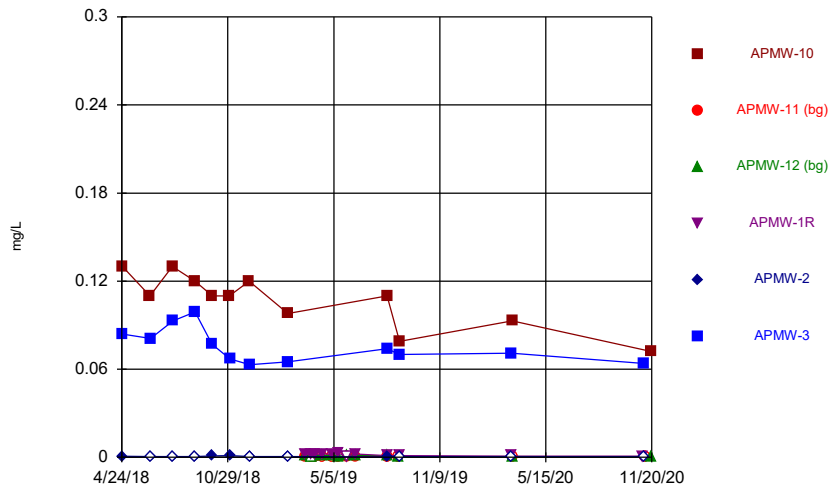
Constituent: Antimony Analysis Run 2/4/2021 1:41 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



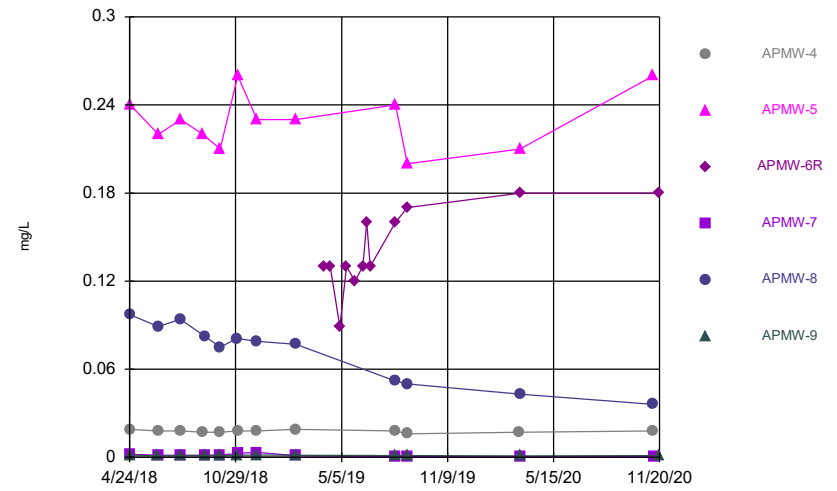
Constituent: Antimony Analysis Run 2/4/2021 1:41 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



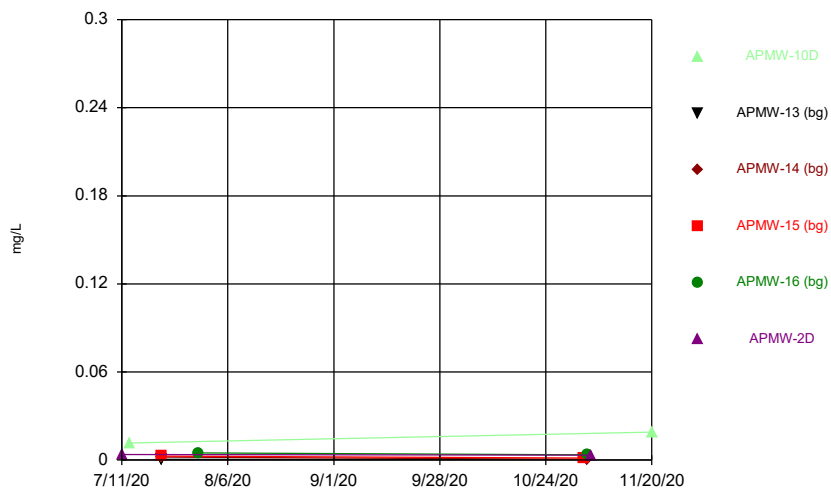
Constituent: Arsenic Analysis Run 2/4/2021 1:41 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



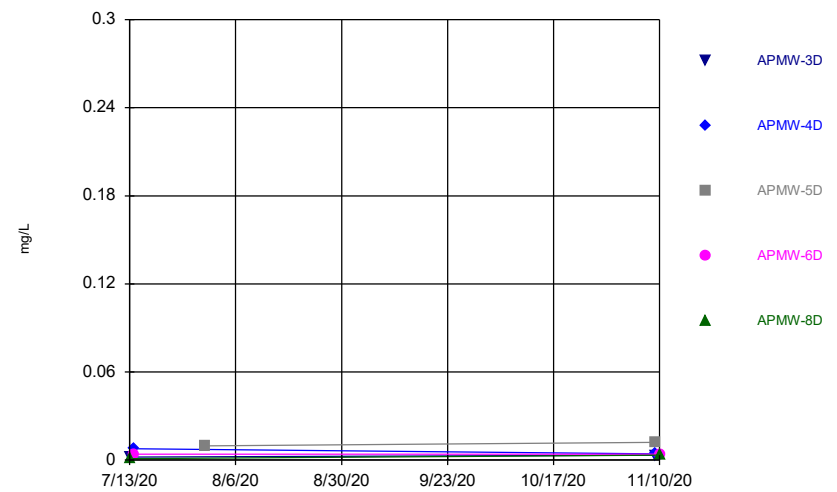
Constituent: Arsenic Analysis Run 2/4/2021 1:41 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



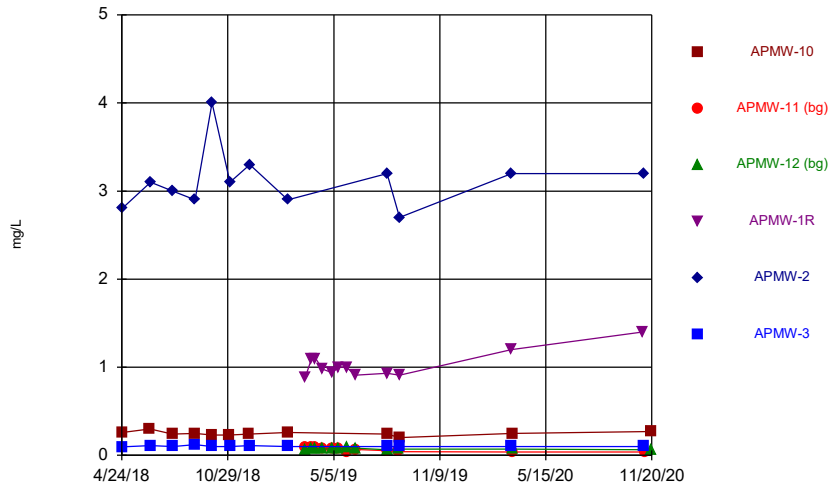
Constituent: Arsenic Analysis Run 2/4/2021 1:41 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



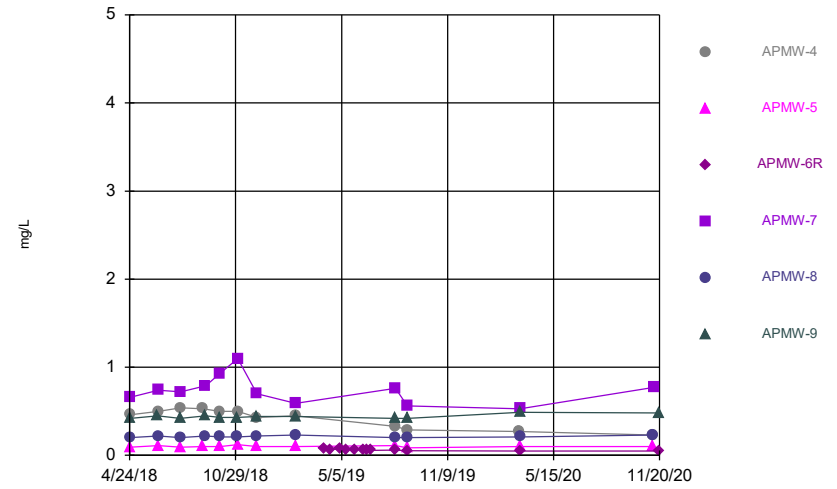
Constituent: Arsenic Analysis Run 2/4/2021 1:41 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



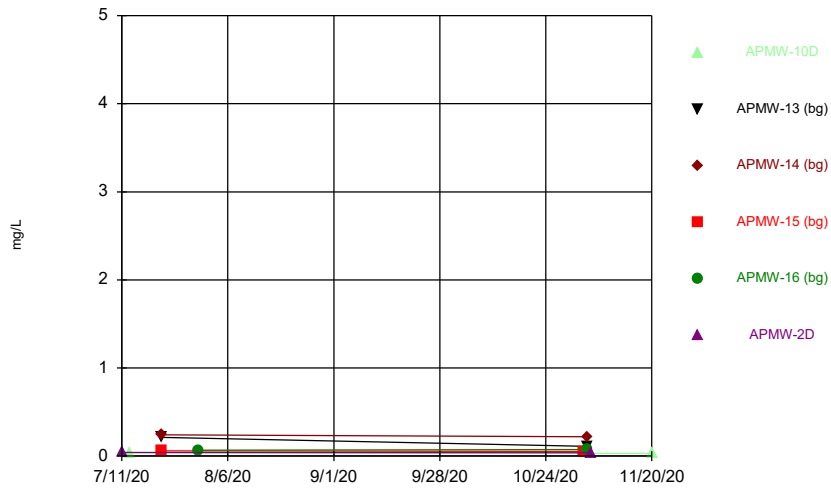
Constituent: Barium Analysis Run 2/4/2021 1:41 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



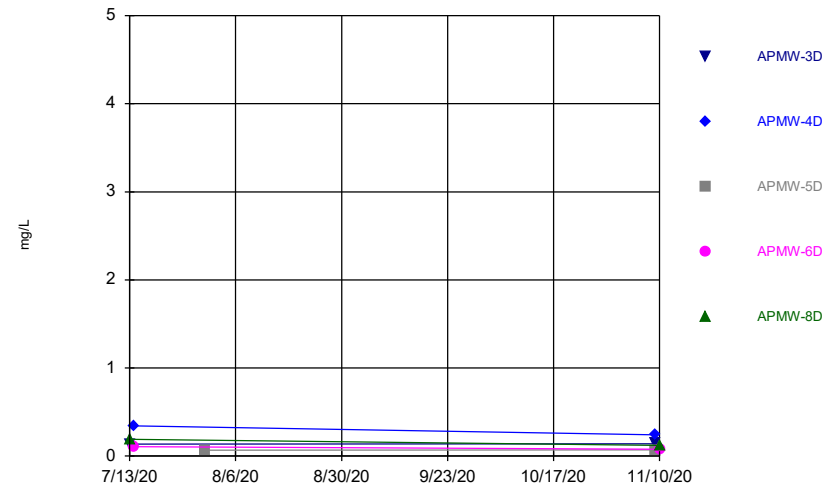
Constituent: Barium Analysis Run 2/4/2021 1:41 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



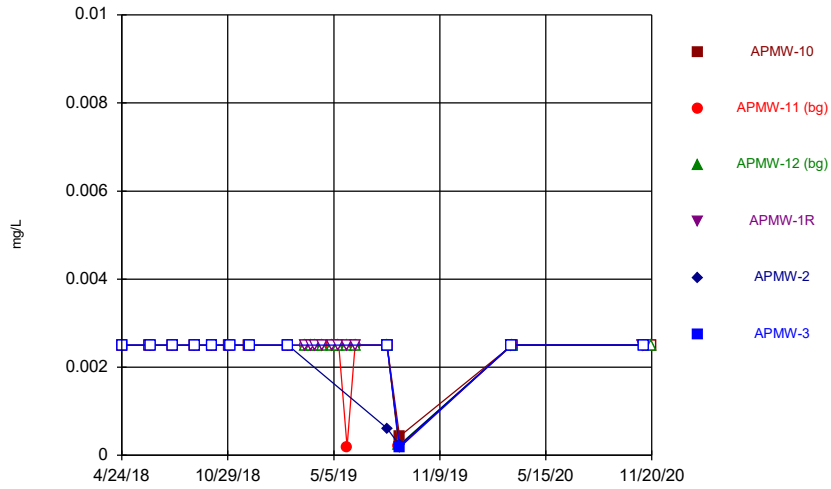
Constituent: Barium Analysis Run 2/4/2021 1:41 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



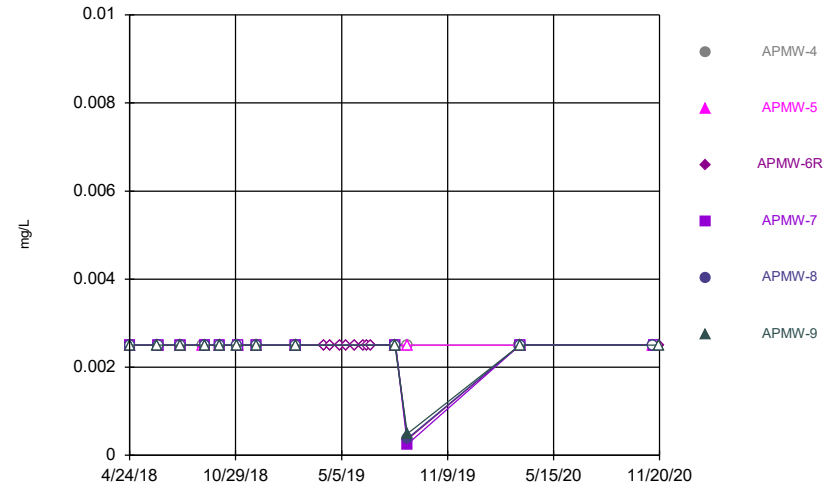
Constituent: Barium Analysis Run 2/4/2021 1:41 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



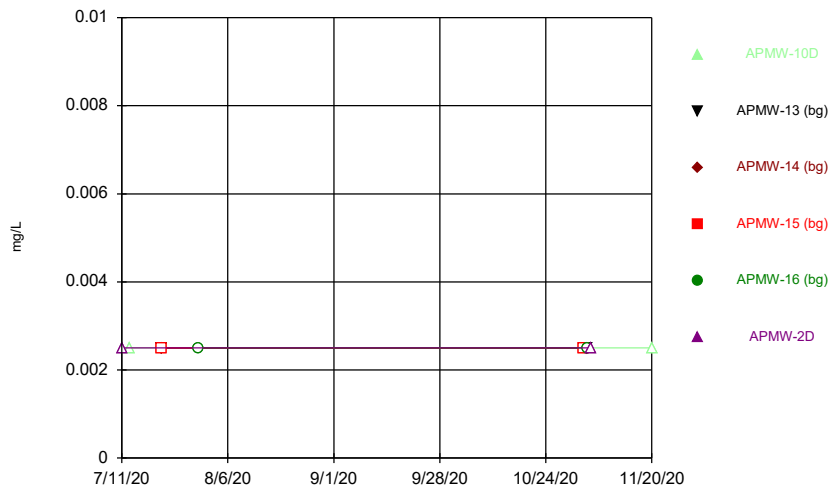
Constituent: Beryllium Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



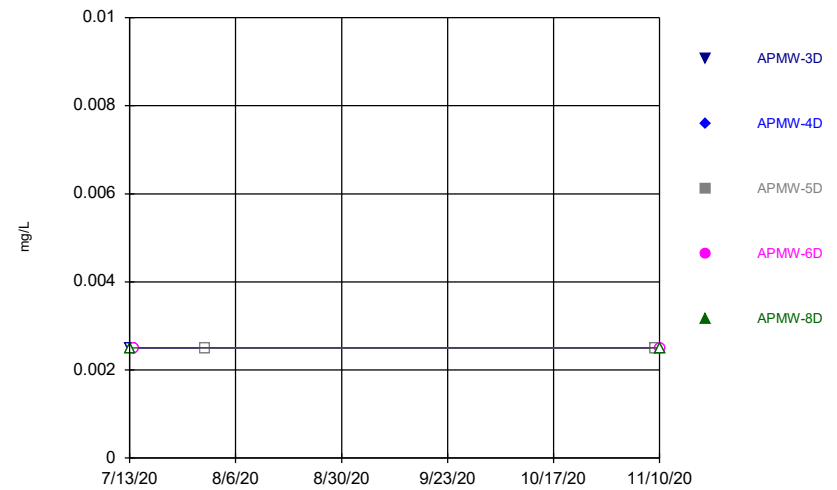
Constituent: Beryllium Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



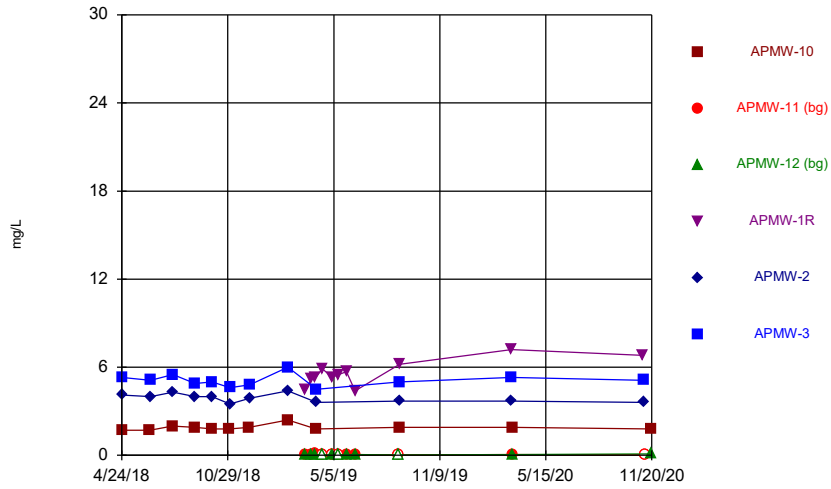
Constituent: Beryllium Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



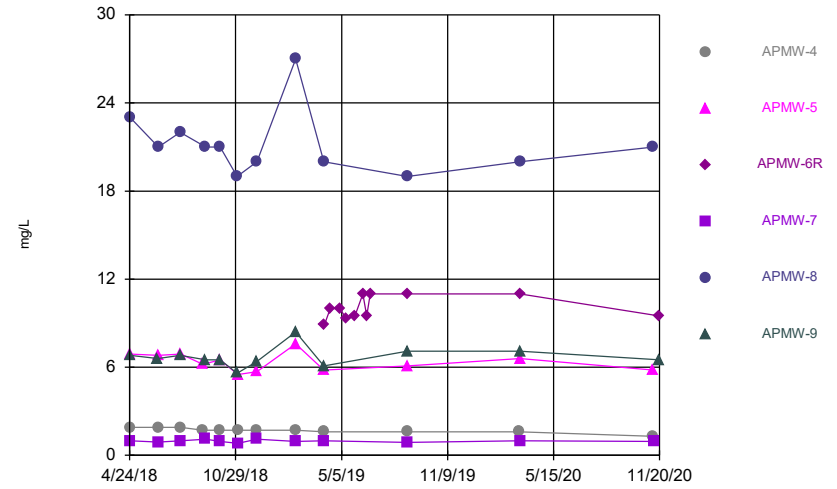
Constituent: Beryllium Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



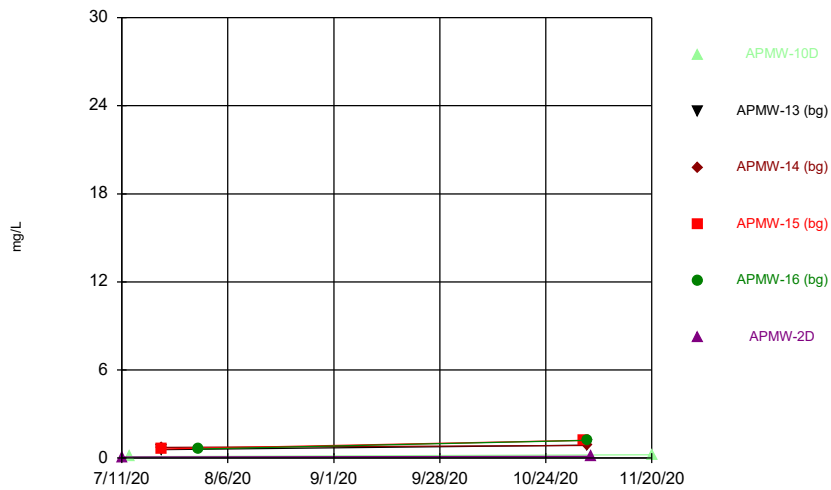
Constituent: Boron Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



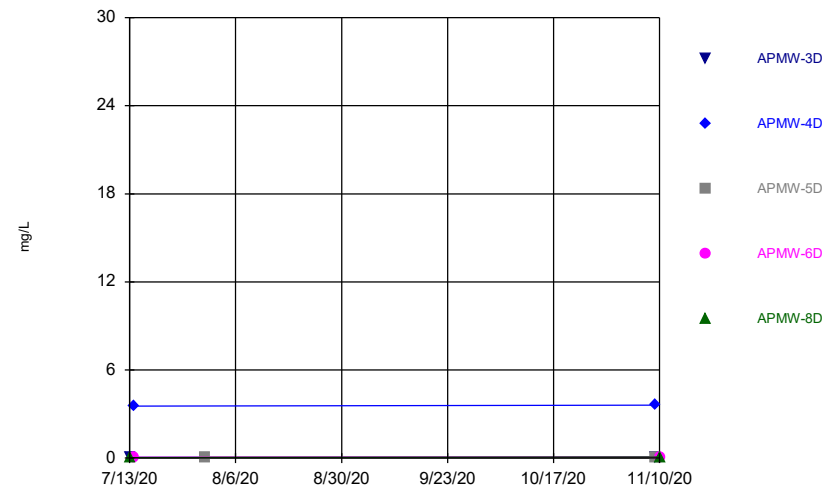
Constituent: Boron Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



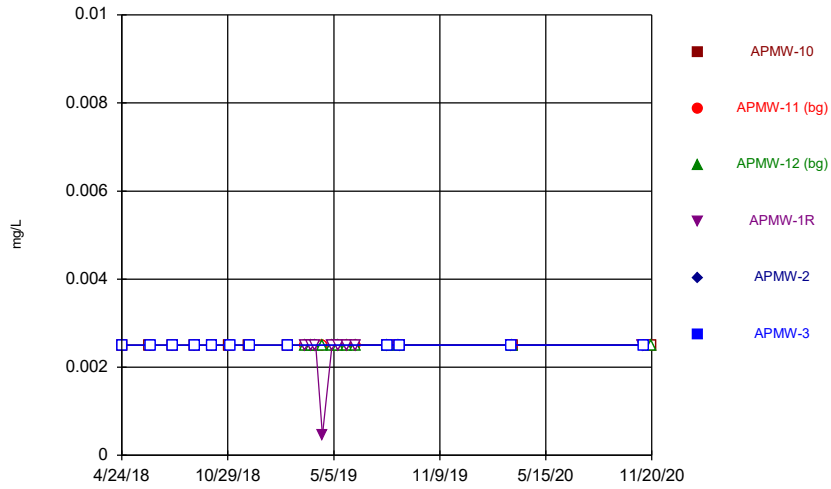
Constituent: Boron Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



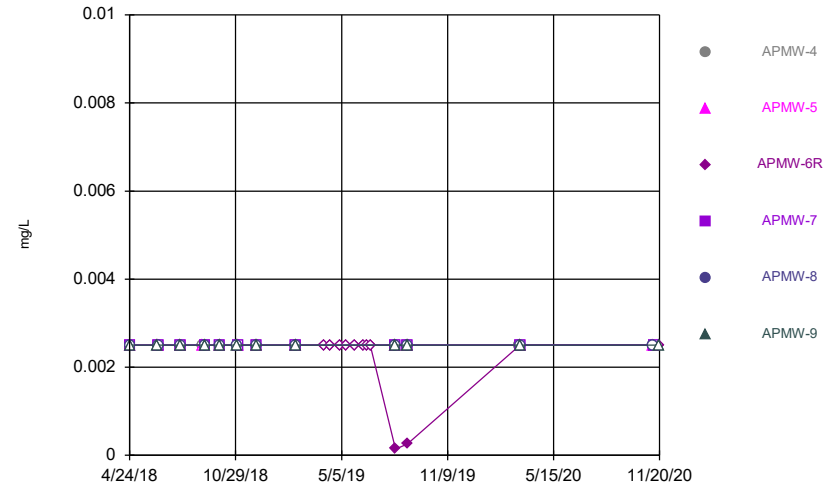
Constituent: Boron Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



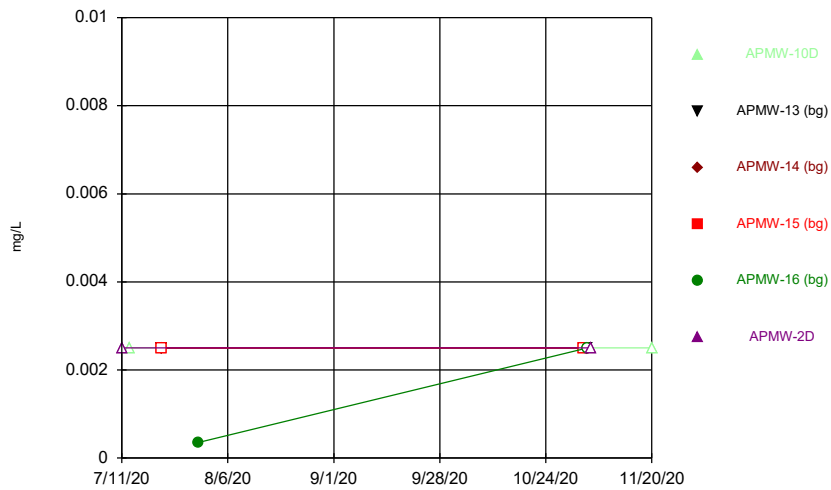
Constituent: Cadmium Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



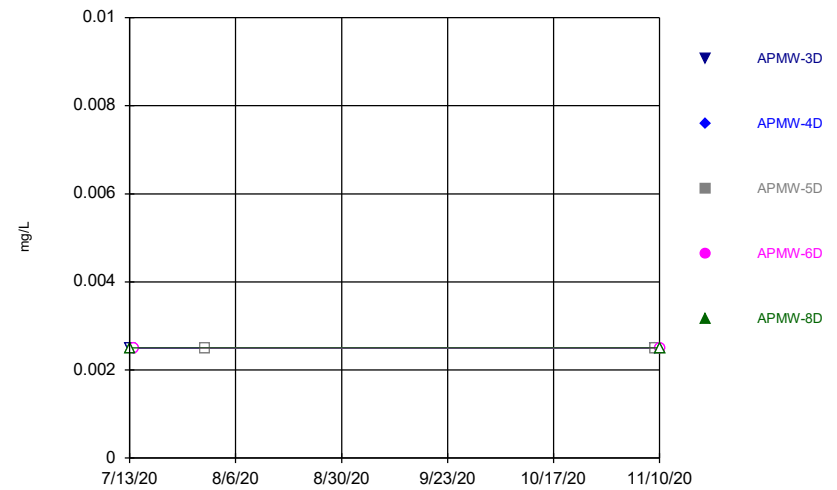
Constituent: Cadmium Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



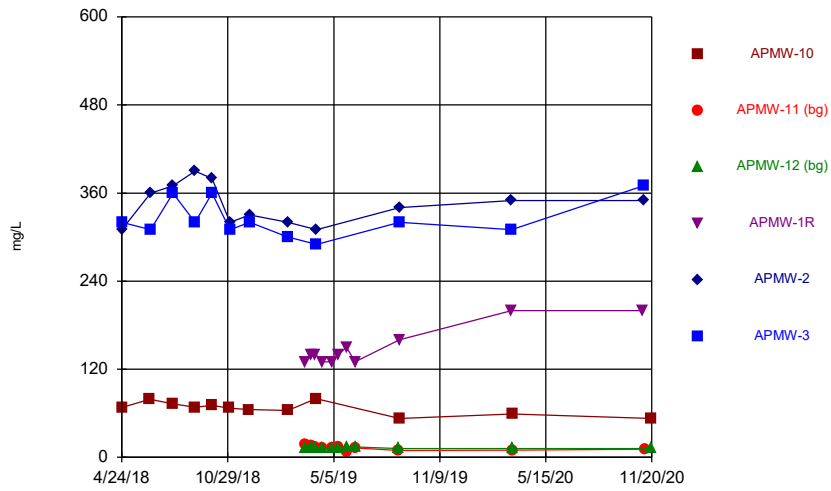
Constituent: Cadmium Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



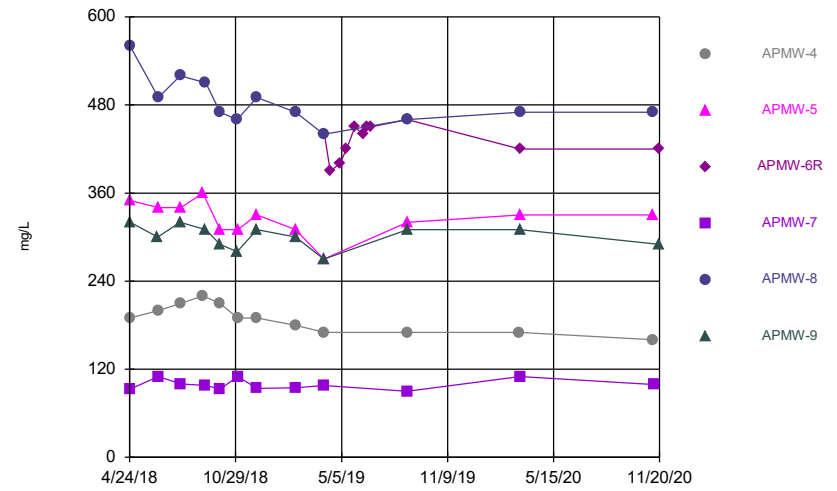
Constituent: Cadmium Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



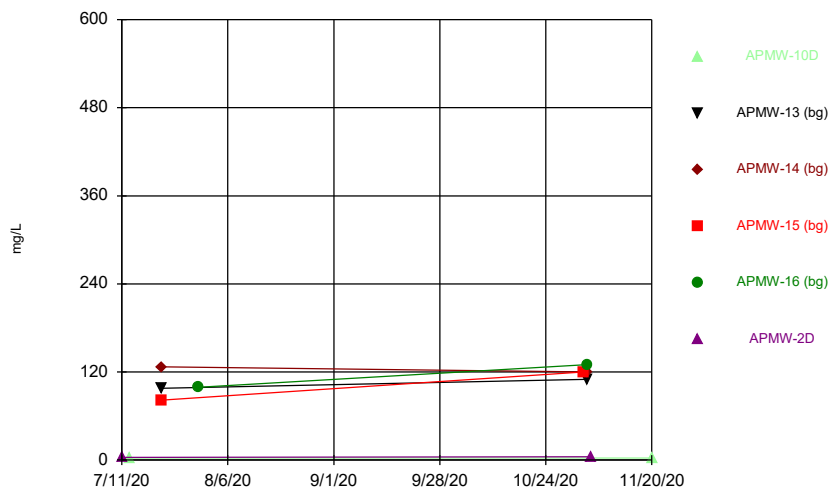
Constituent: Calcium Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



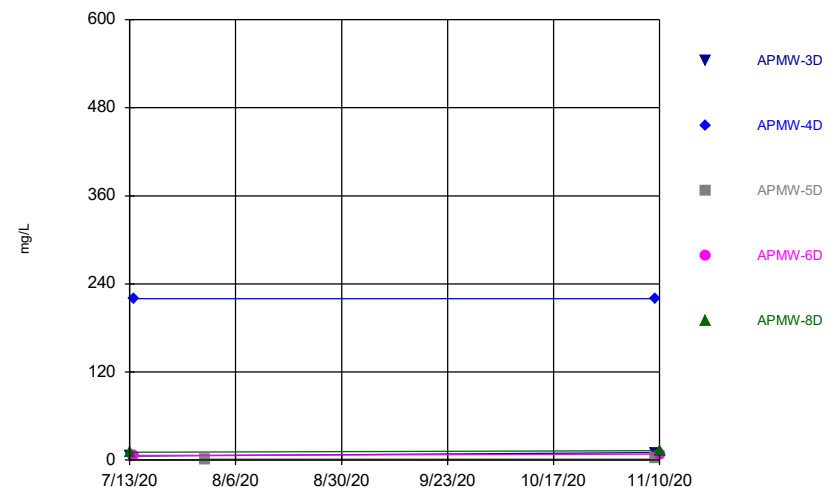
Constituent: Calcium Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



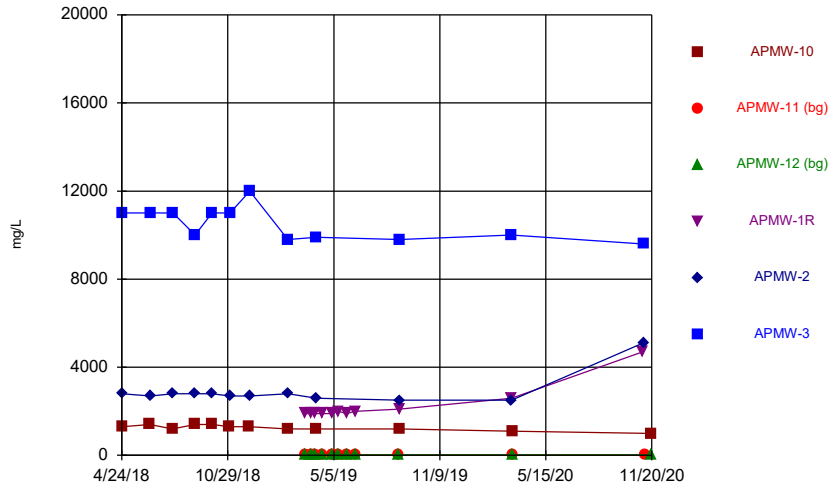
Constituent: Calcium Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



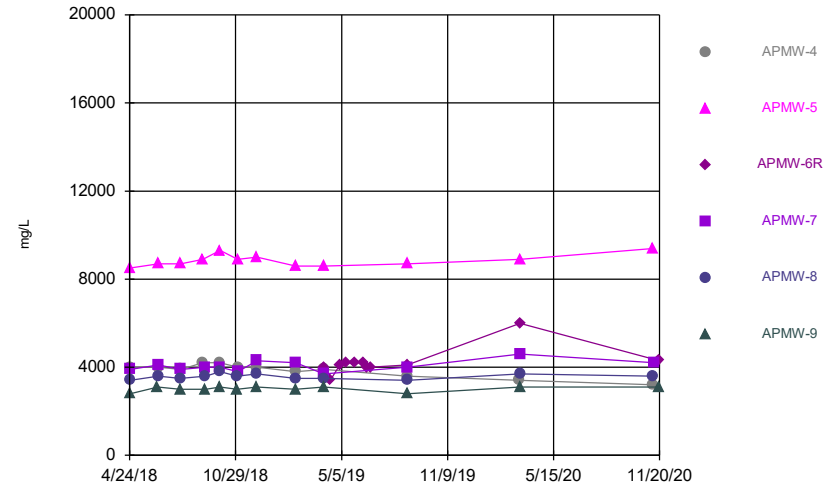
Constituent: Calcium Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



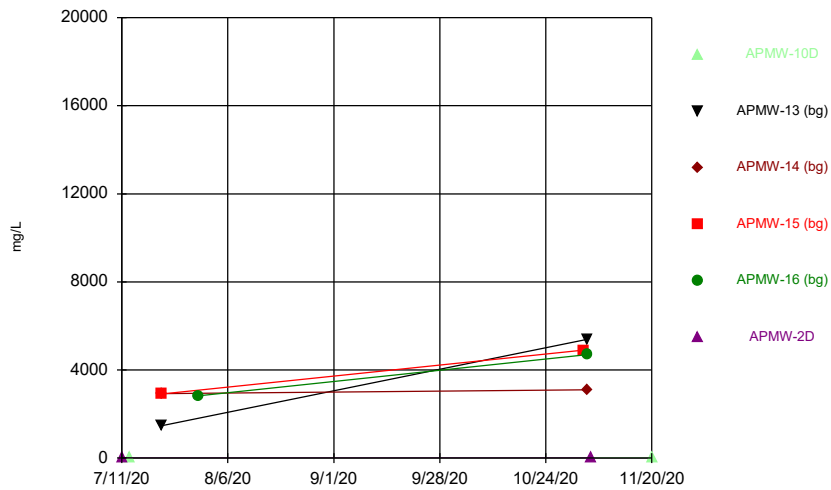
Constituent: Chloride Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



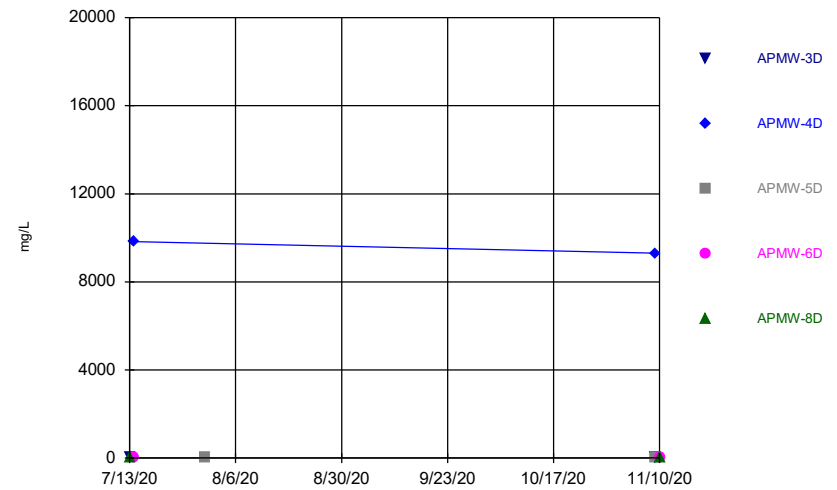
Constituent: Chloride Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



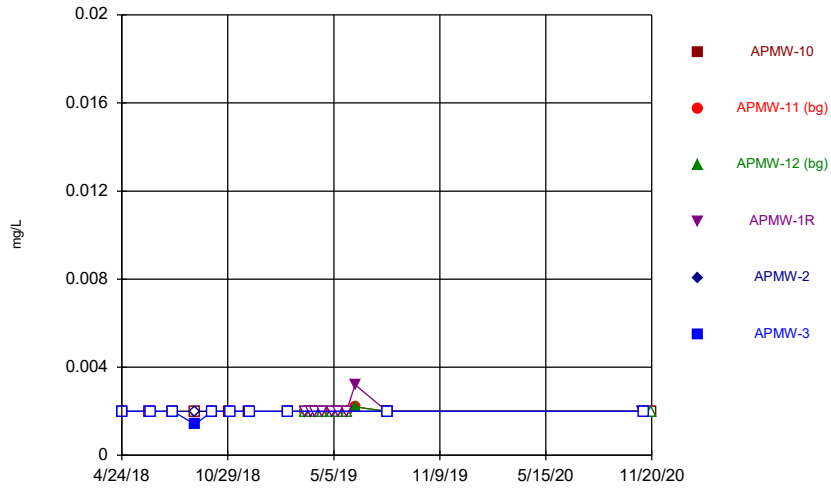
Constituent: Chloride Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



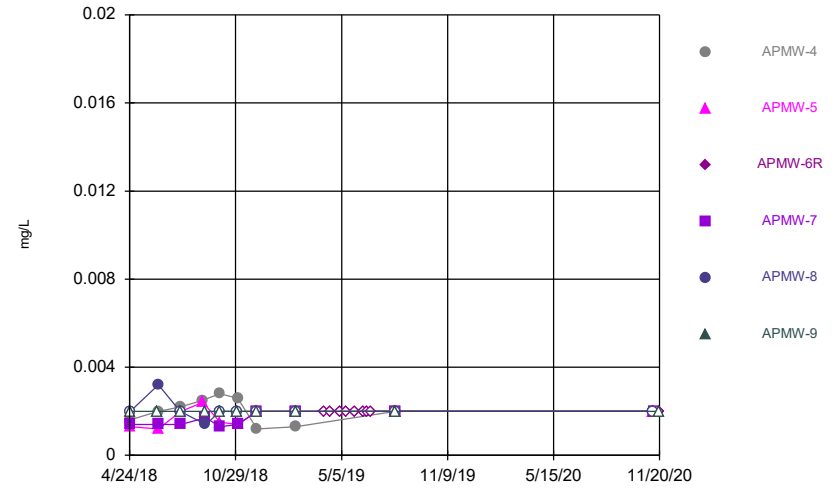
Constituent: Chloride Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



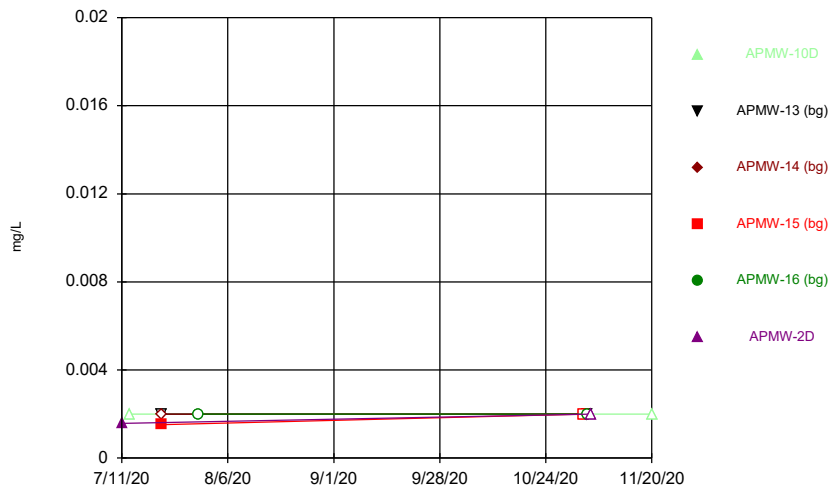
Constituent: Chromium Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



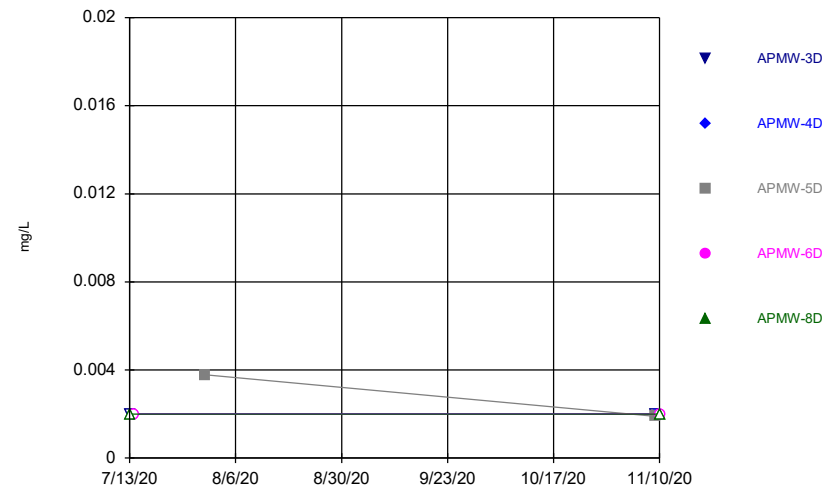
Constituent: Chromium Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



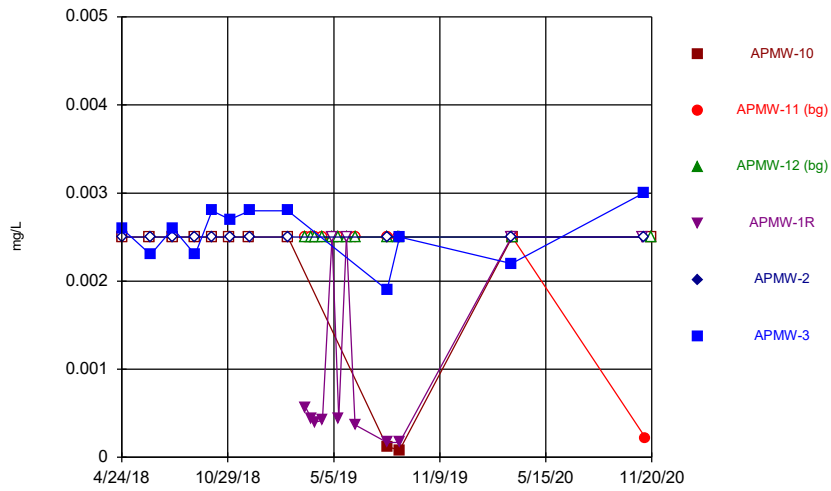
Constituent: Chromium Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



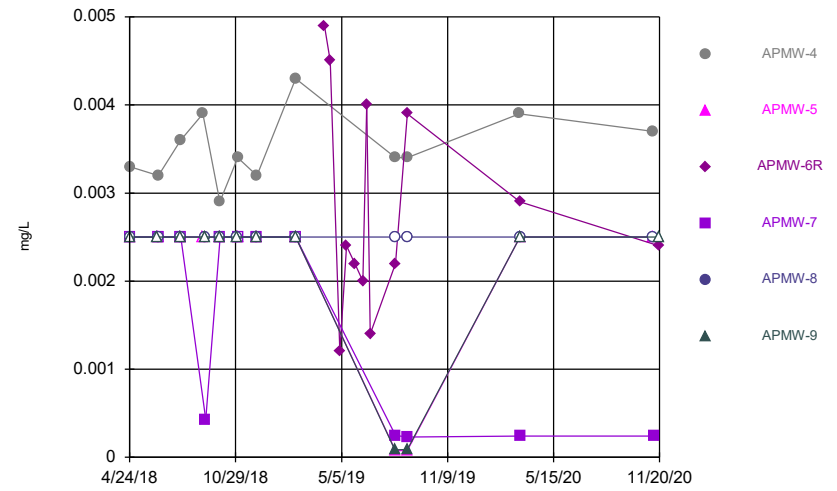
Constituent: Chromium Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



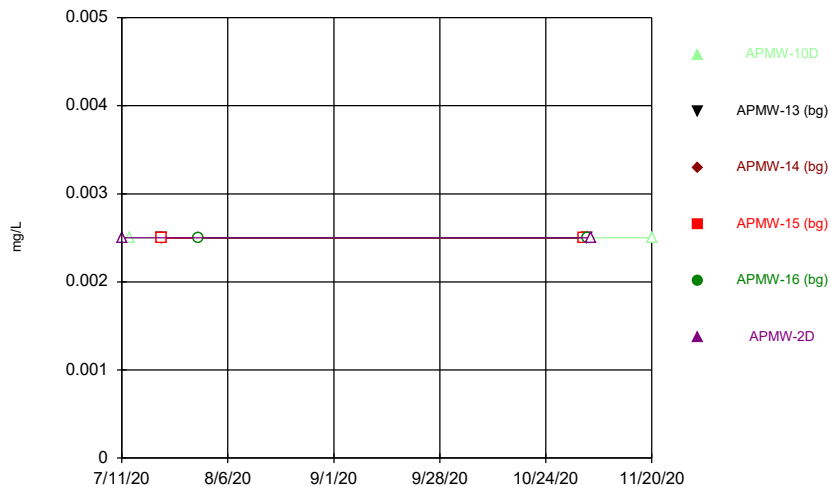
Constituent: Cobalt Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



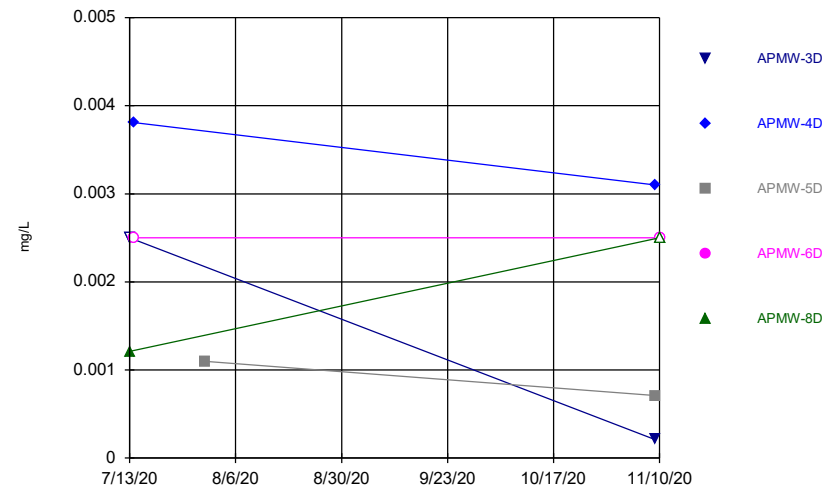
Constituent: Cobalt Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



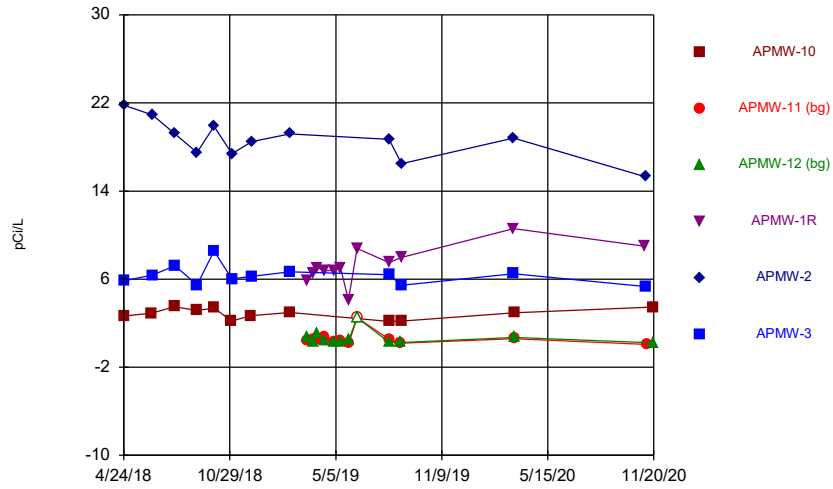
Constituent: Cobalt Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



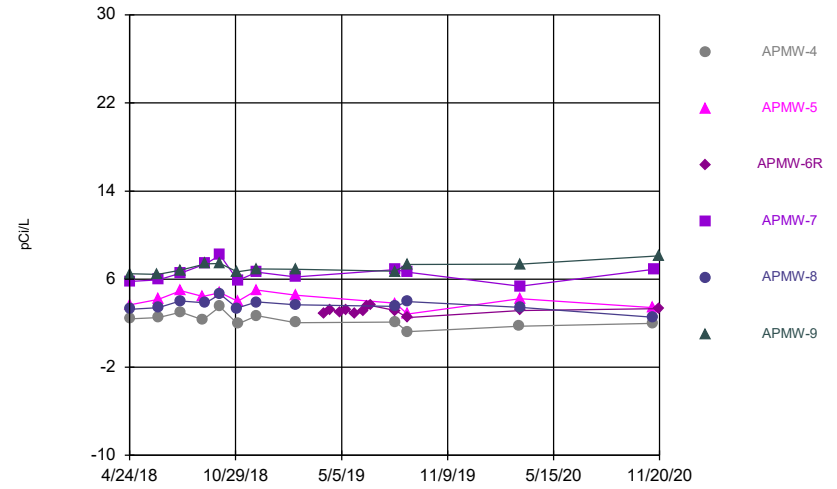
Constituent: Cobalt Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



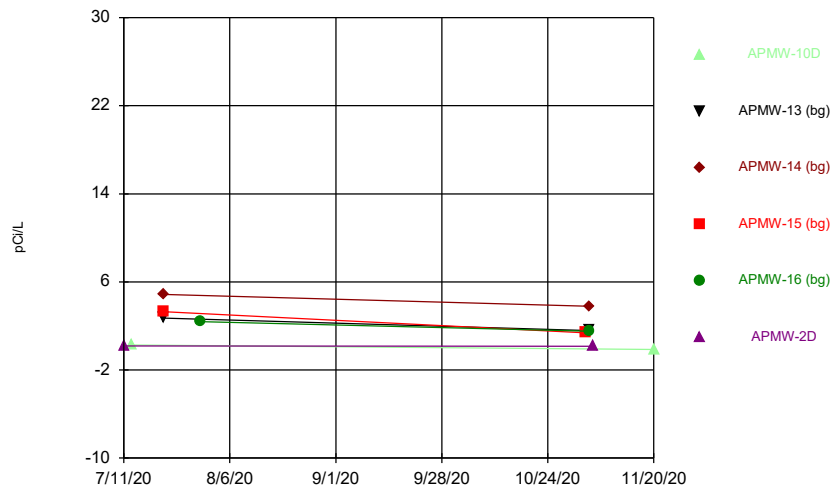
Constituent: Combined Radium 226 + 228 Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



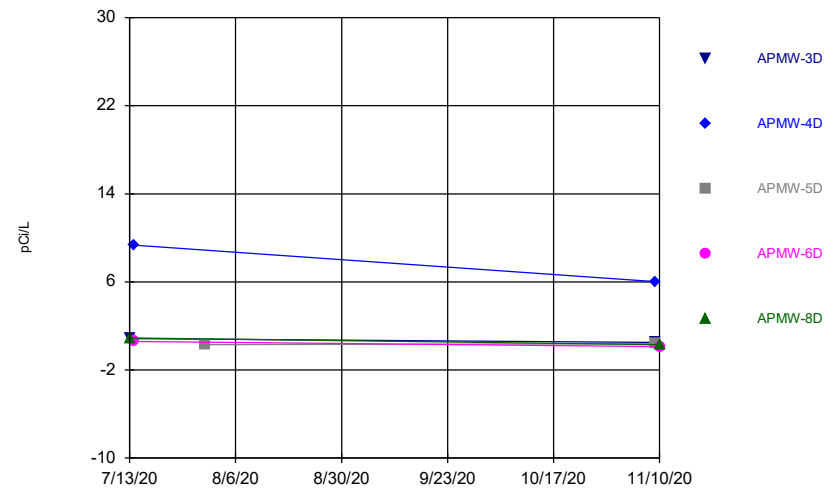
Constituent: Combined Radium 226 + 228 Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



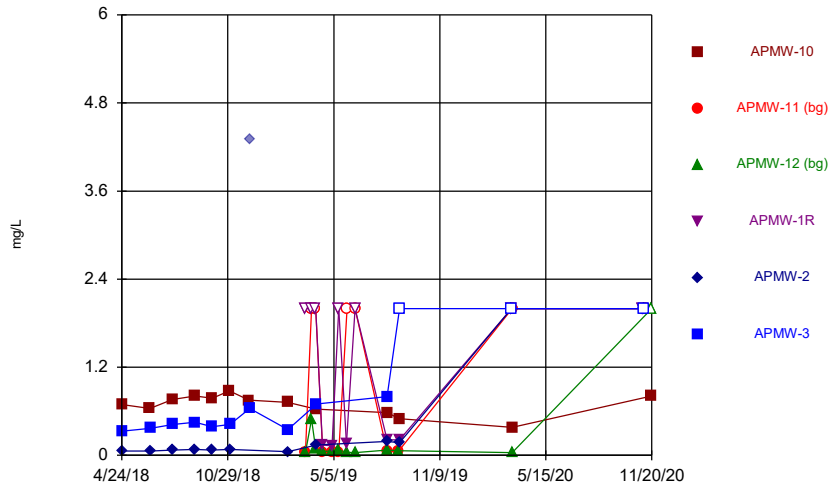
Constituent: Combined Radium 226 + 228 Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



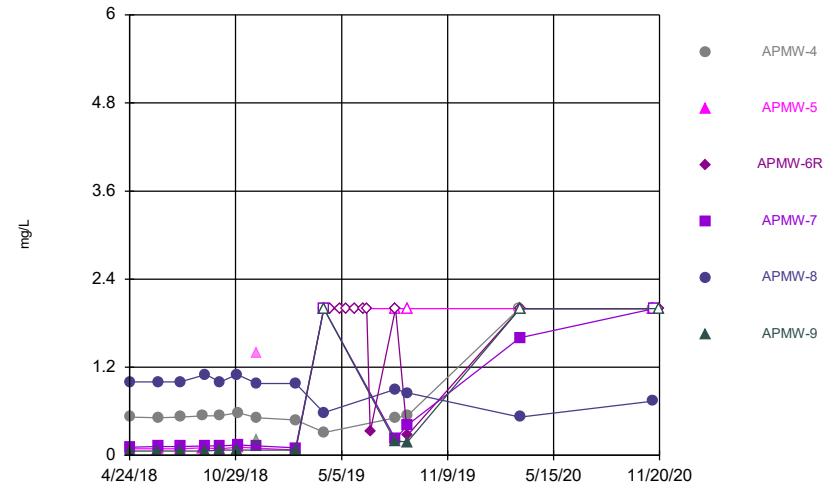
Constituent: Combined Radium 226 + 228 Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



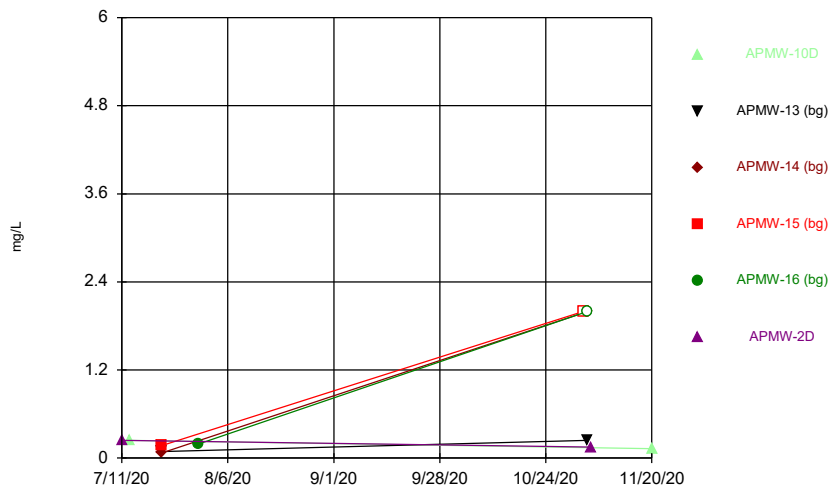
Constituent: Fluoride Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



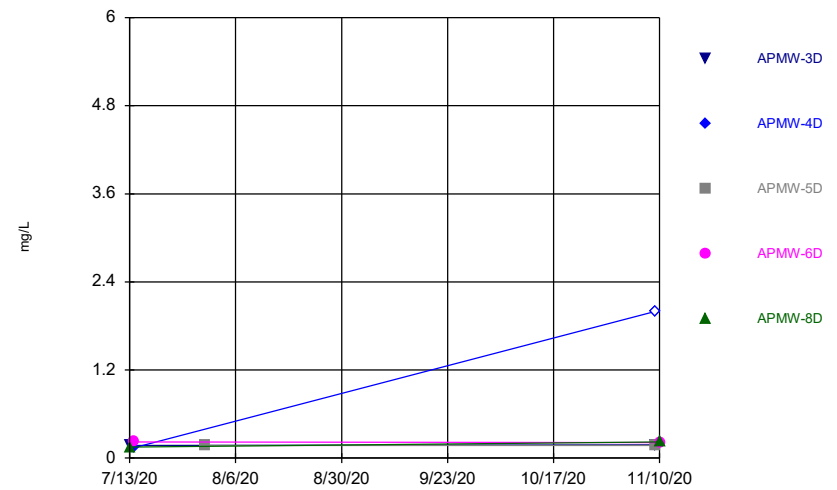
Constituent: Fluoride Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



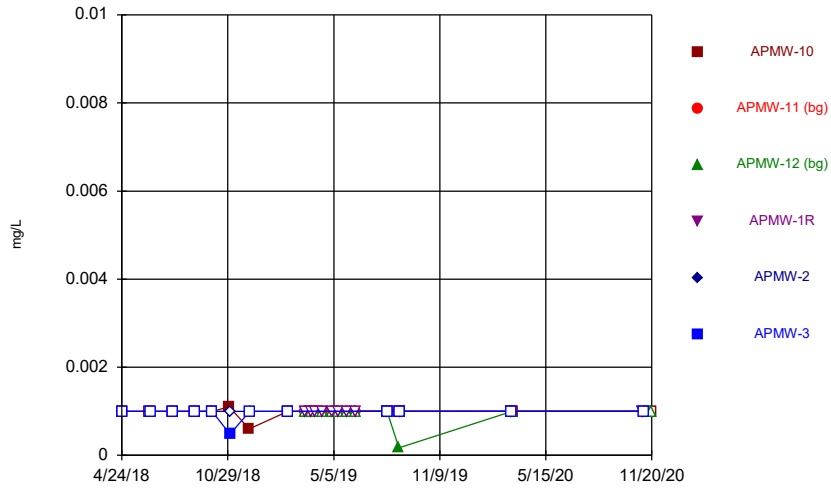
Constituent: Fluoride Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



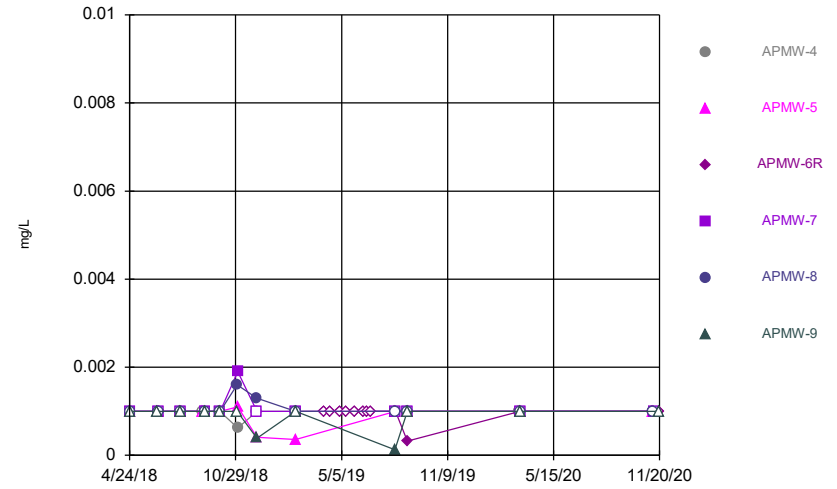
Constituent: Fluoride Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



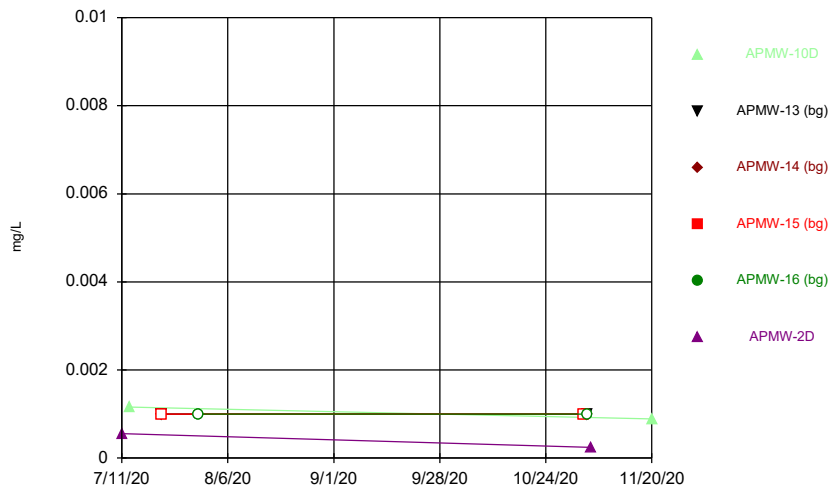
Constituent: Lead Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



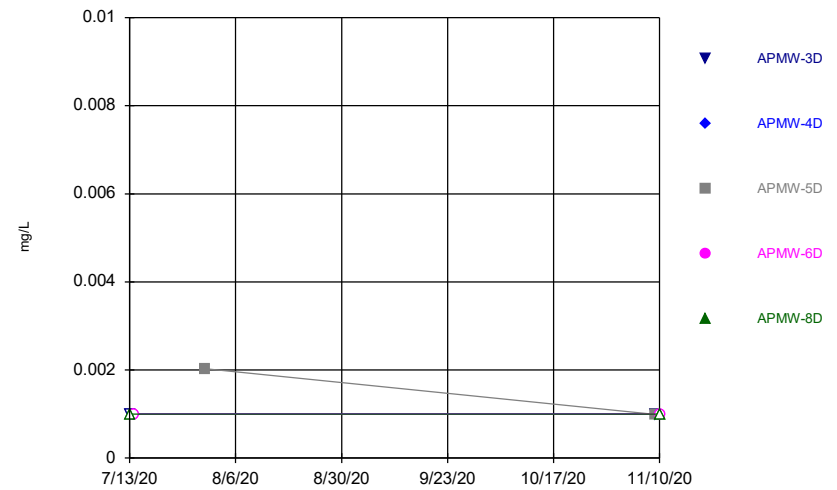
Constituent: Lead Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



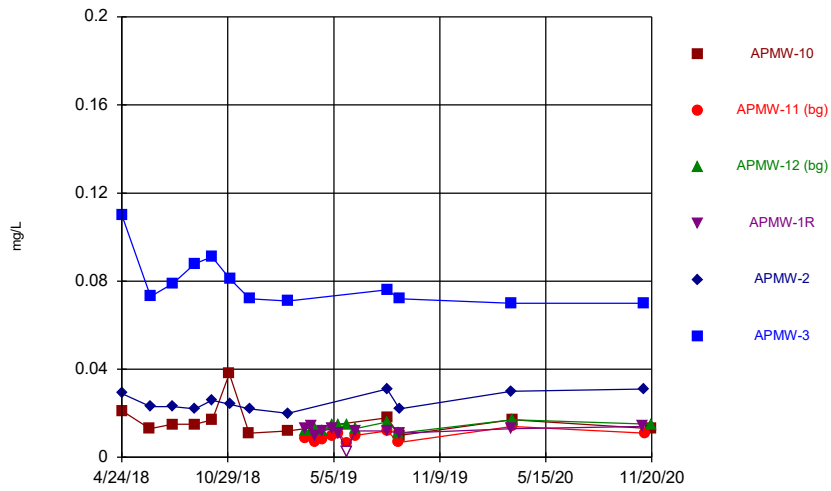
Constituent: Lead Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



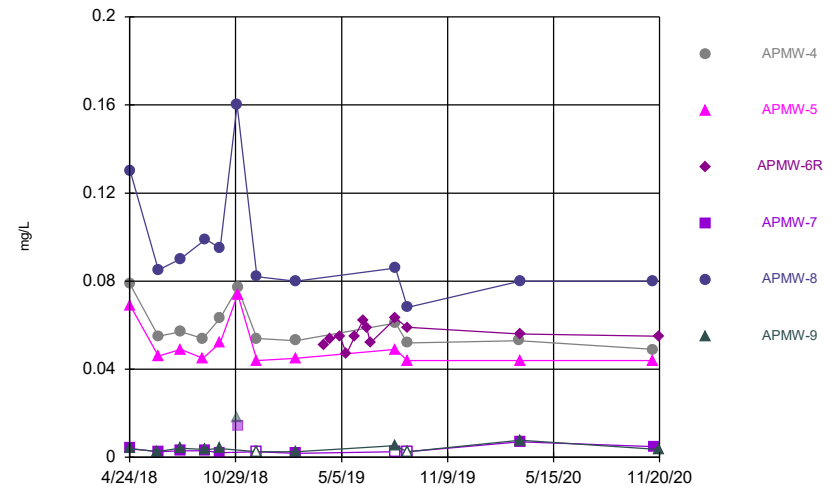
Constituent: Lead Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



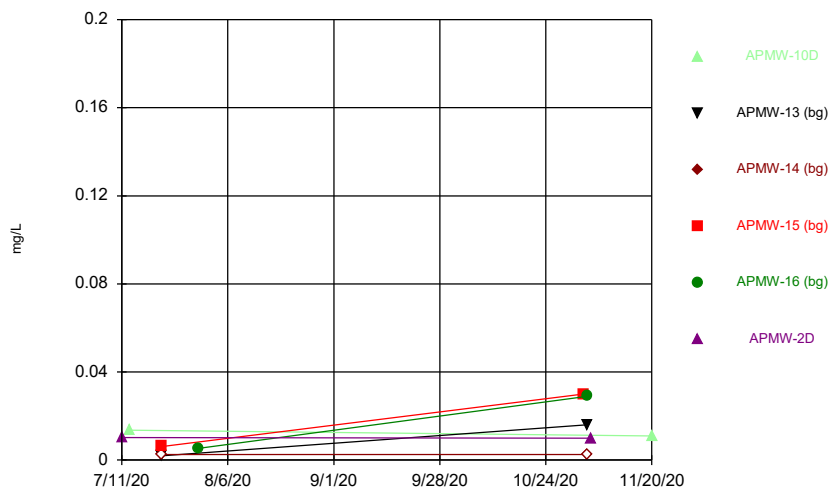
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



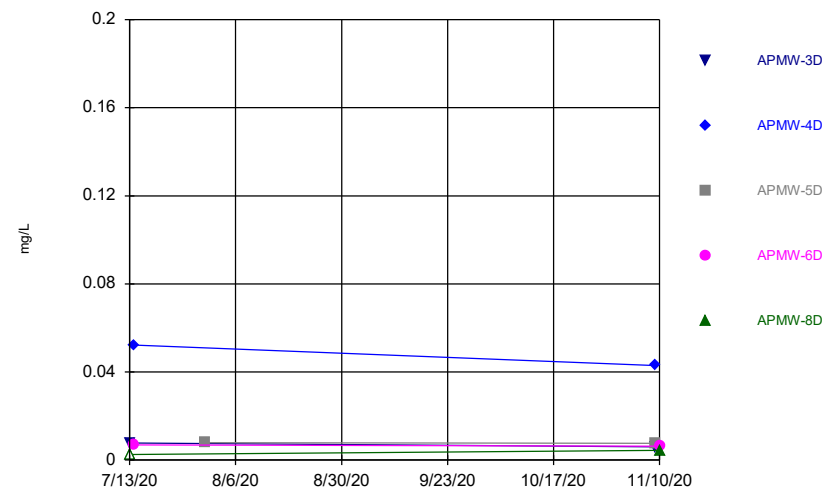
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



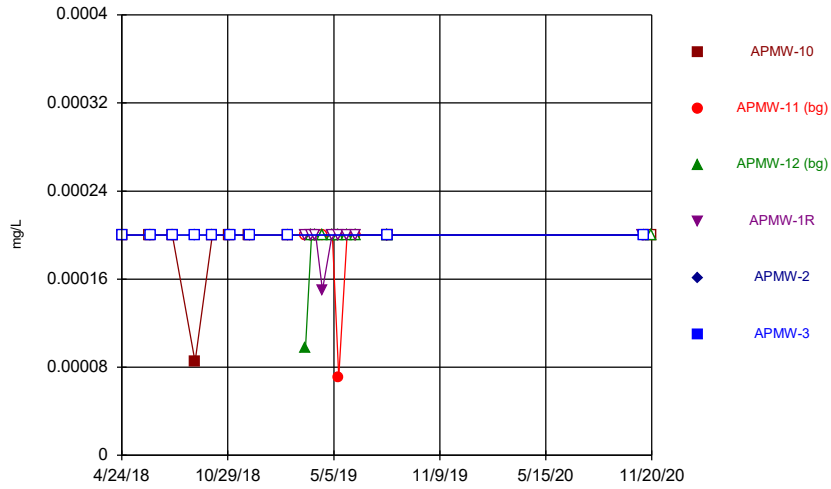
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



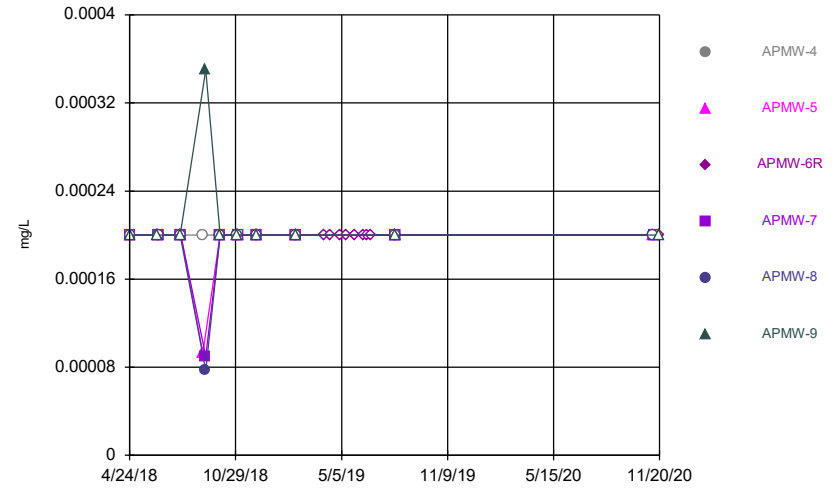
Constituent: Lithium Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



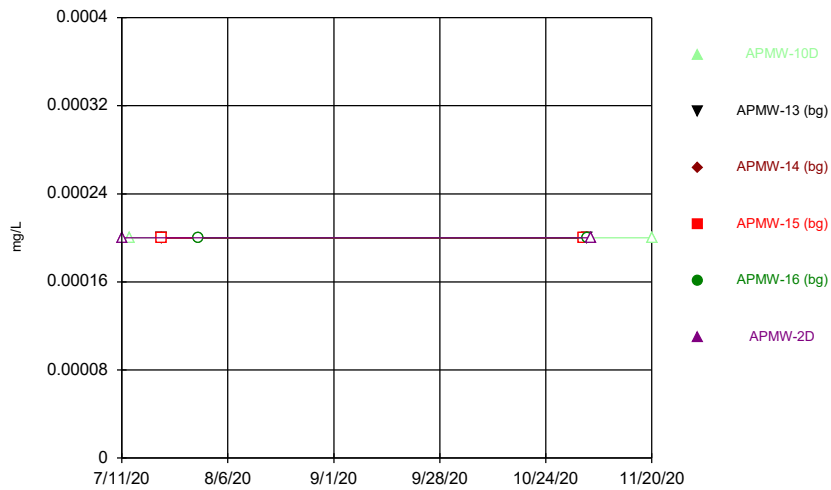
Constituent: Mercury Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



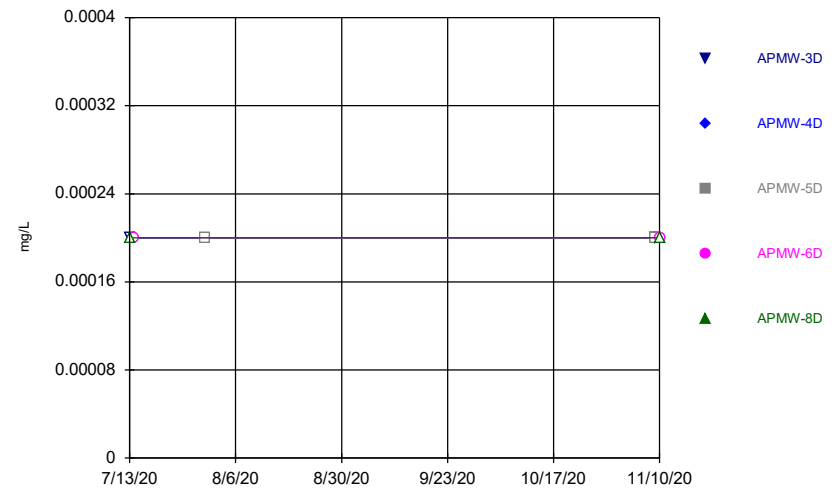
Constituent: Mercury Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



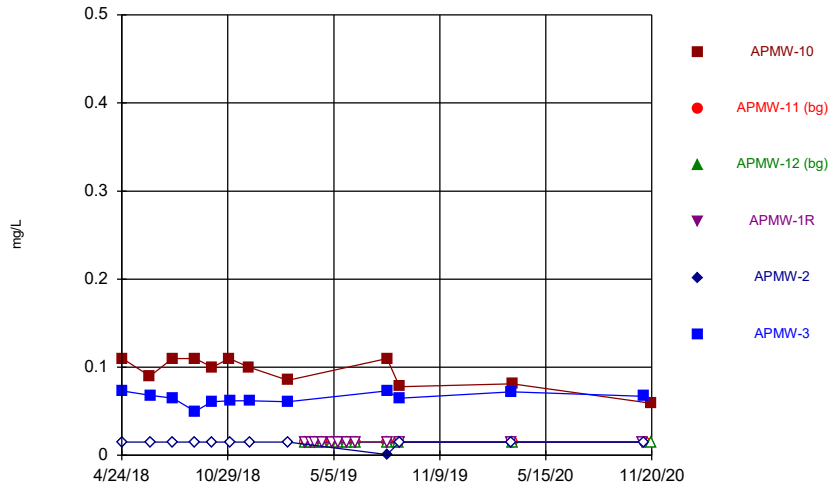
Constituent: Mercury Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



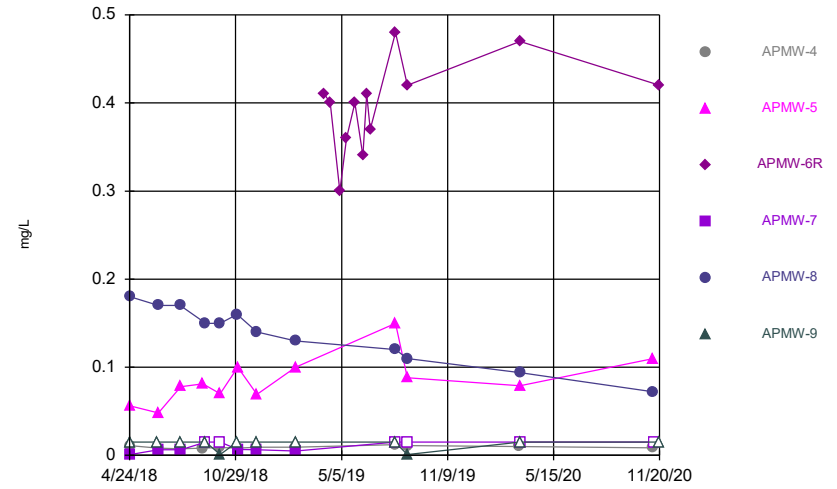
Constituent: Mercury Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



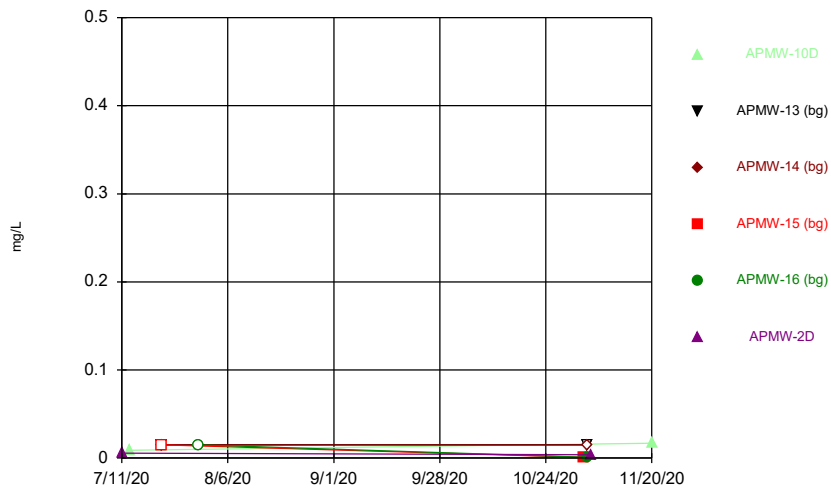
Constituent: Molybdenum Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



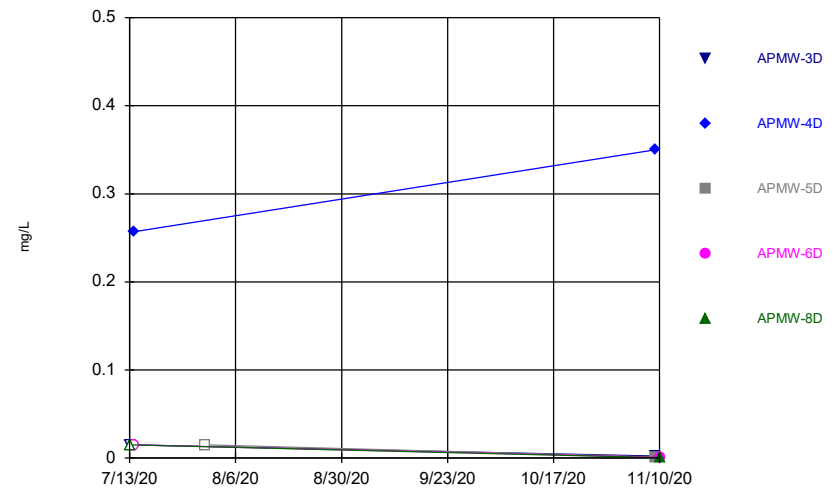
Constituent: Molybdenum Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



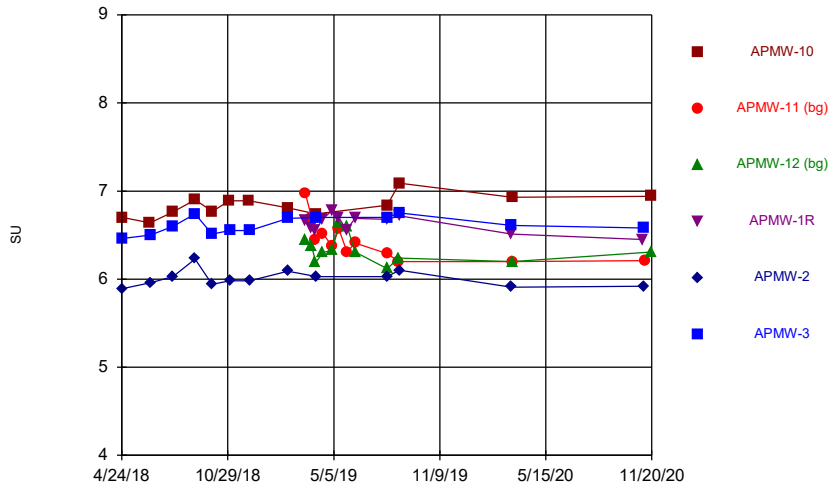
Constituent: Molybdenum Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



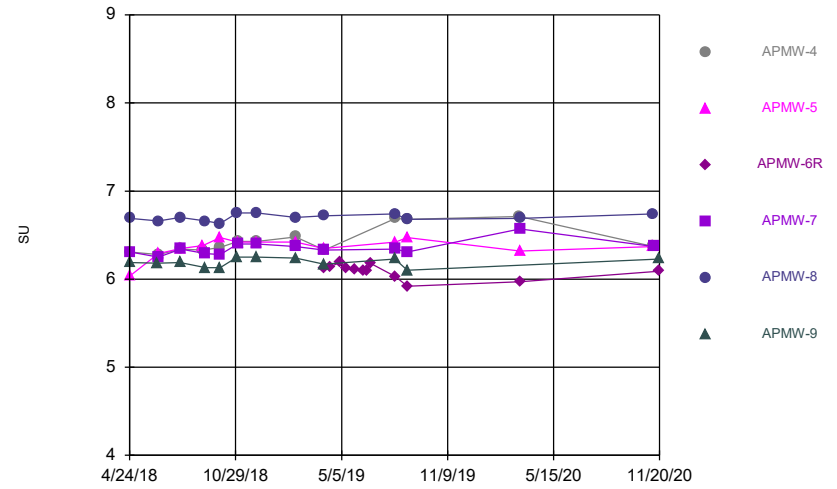
Constituent: Molybdenum Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



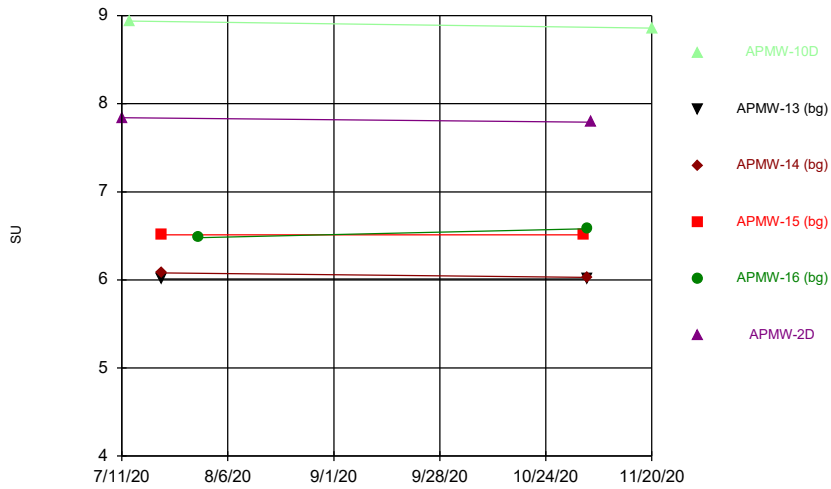
Constituent: pH Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



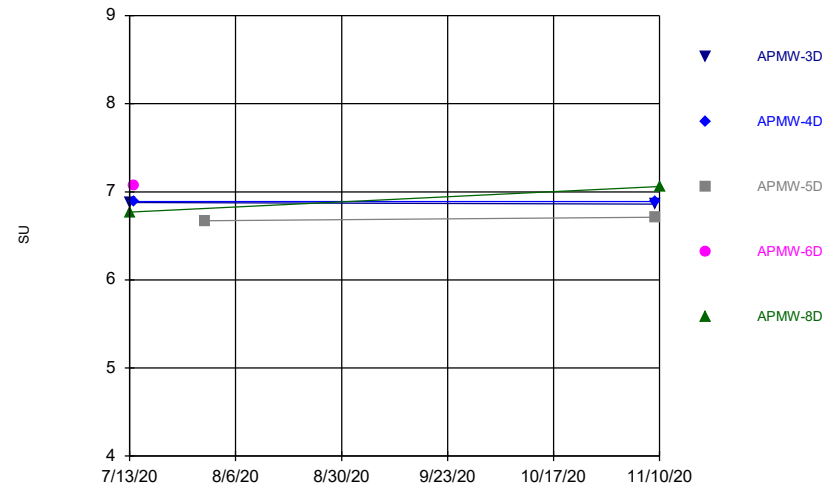
Constituent: pH Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



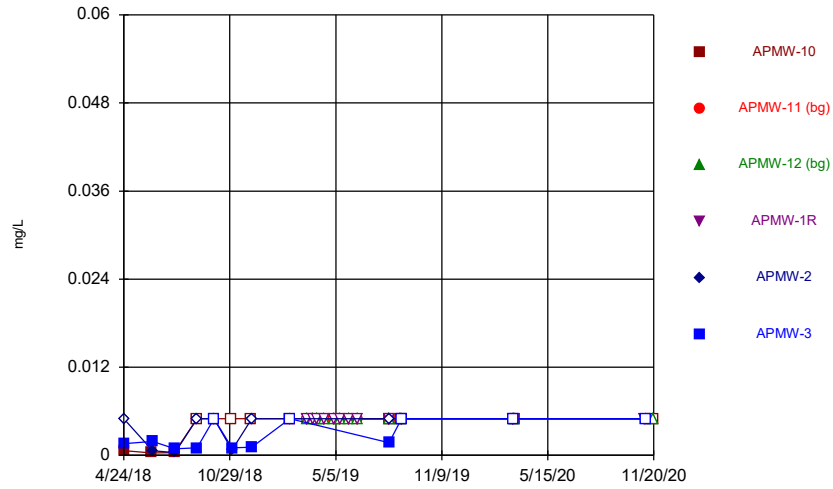
Constituent: pH Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



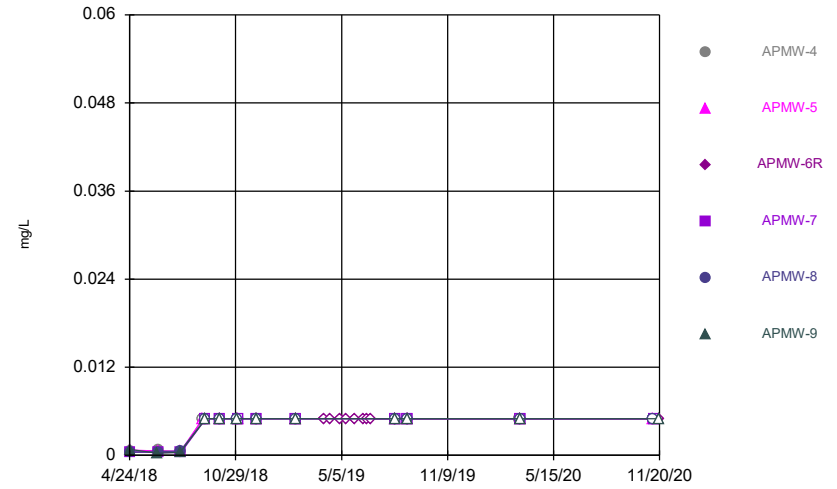
Constituent: pH Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



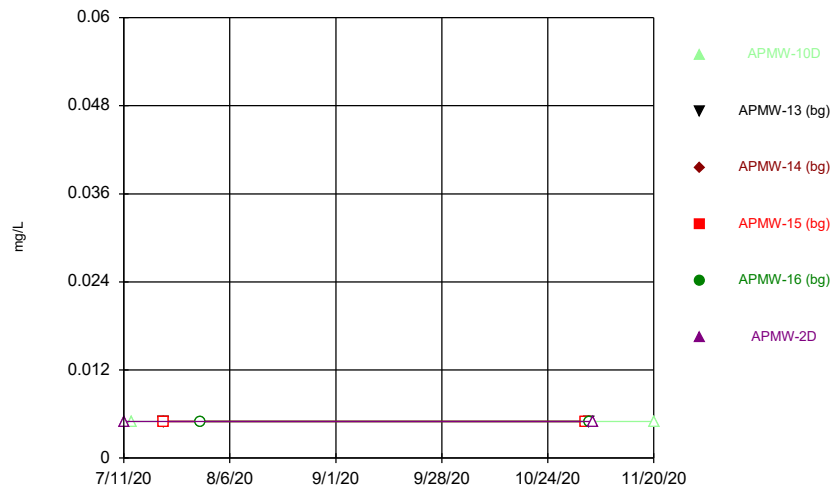
Constituent: Selenium Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



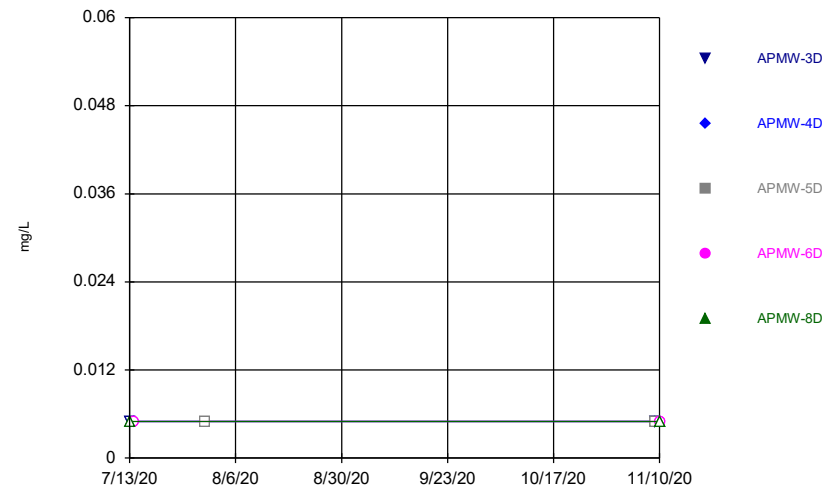
Constituent: Selenium Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



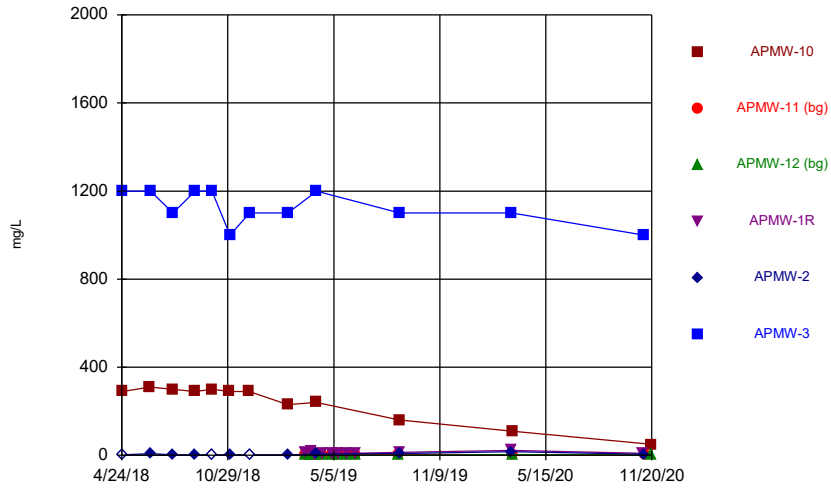
Constituent: Selenium Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



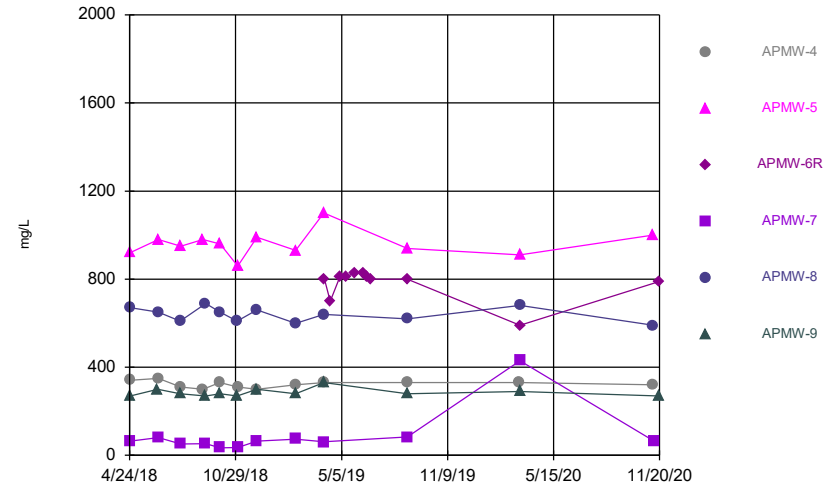
Constituent: Selenium Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



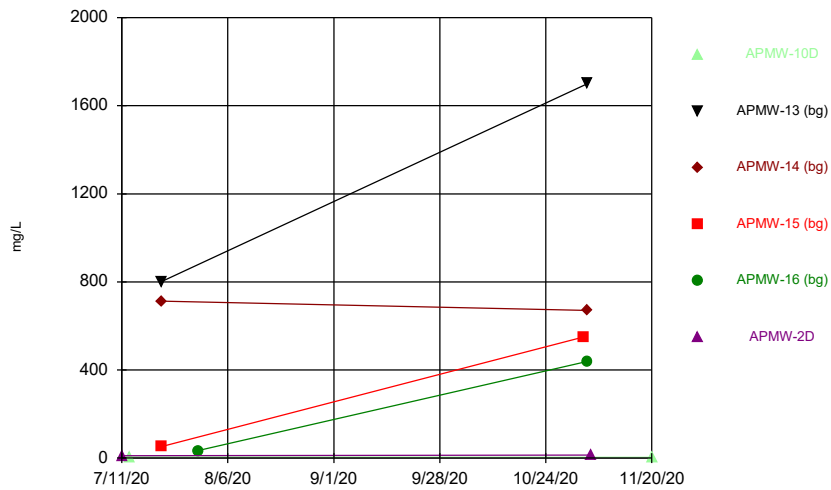
Constituent: Sulfate Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



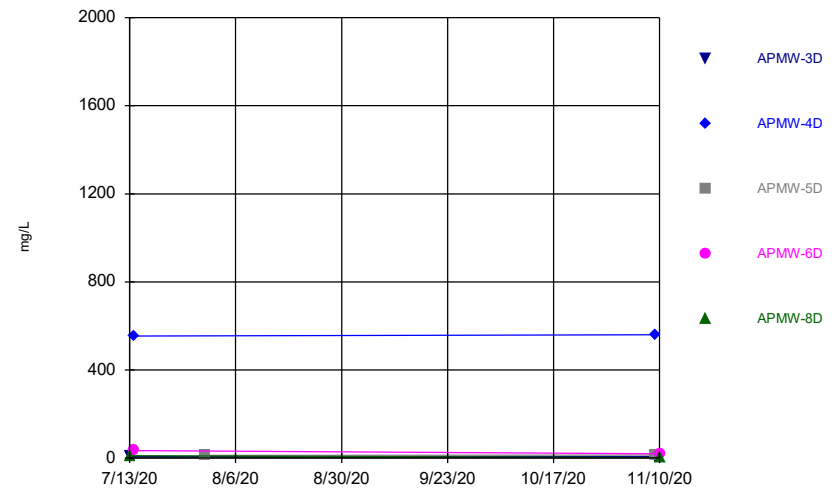
Constituent: Sulfate Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



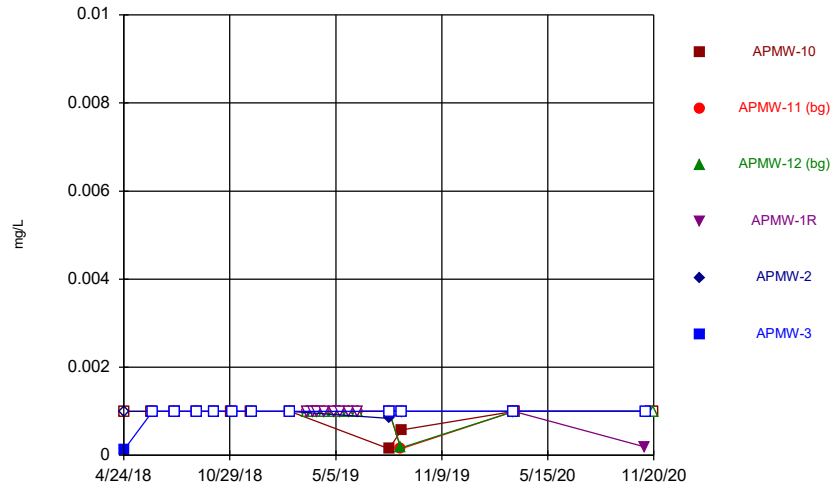
Constituent: Sulfate Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



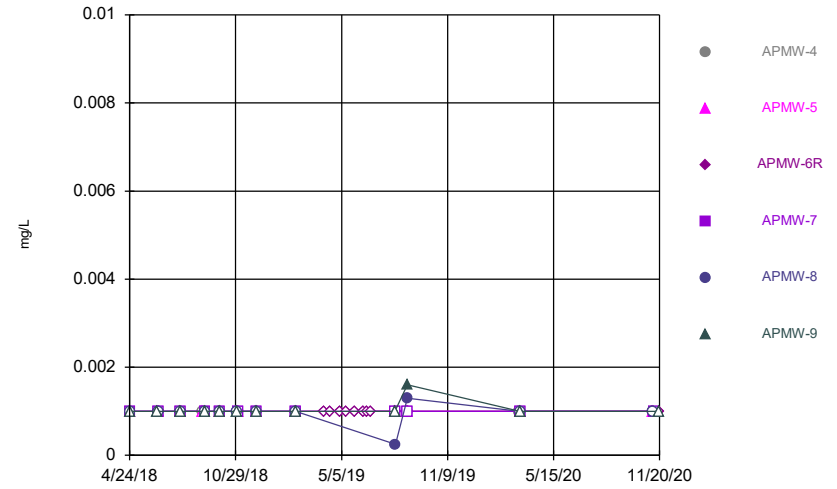
Constituent: Sulfate Analysis Run 2/4/2021 1:42 PM View: Descriptive
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



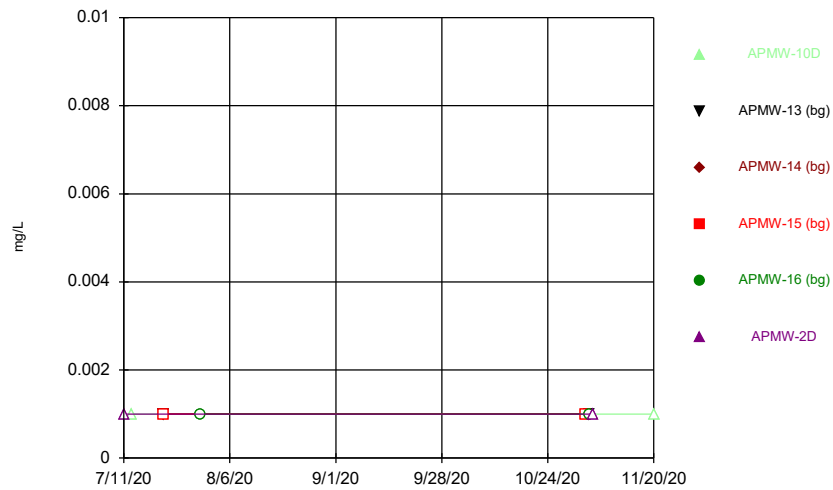
Constituent: Thallium Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



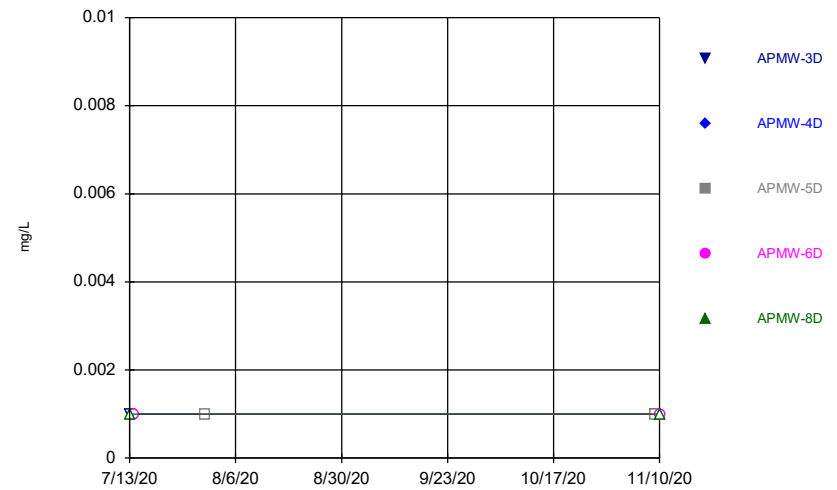
Constituent: Thallium Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



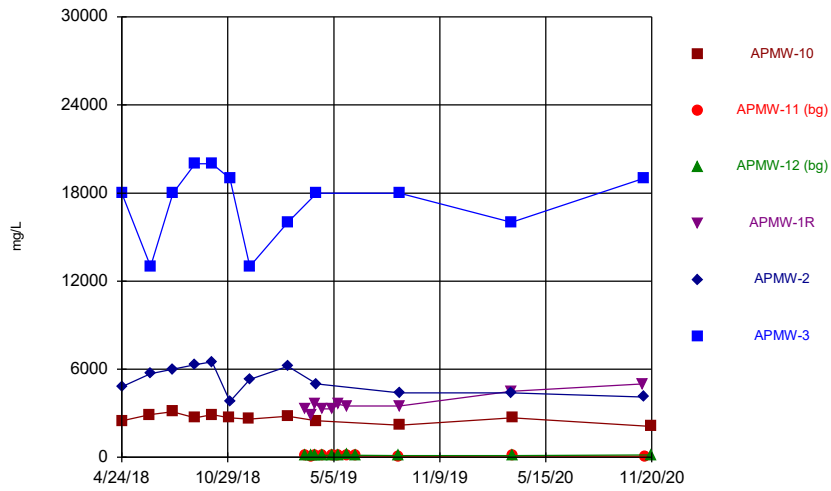
Constituent: Thallium Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



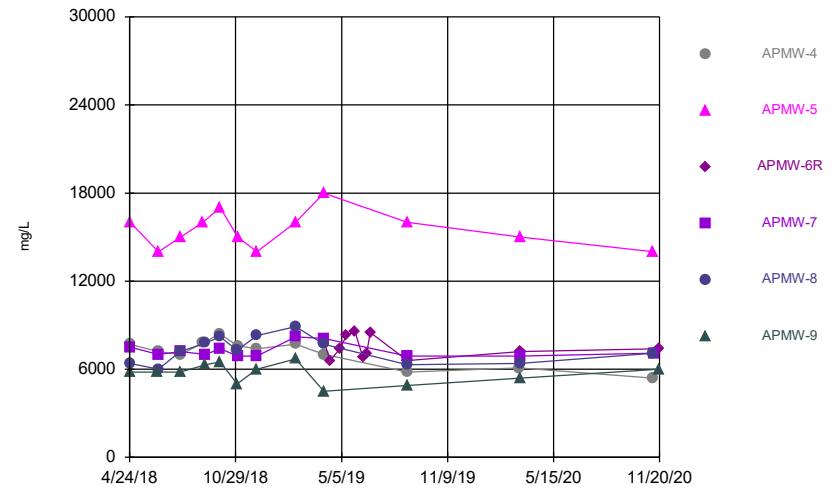
Constituent: Thallium Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



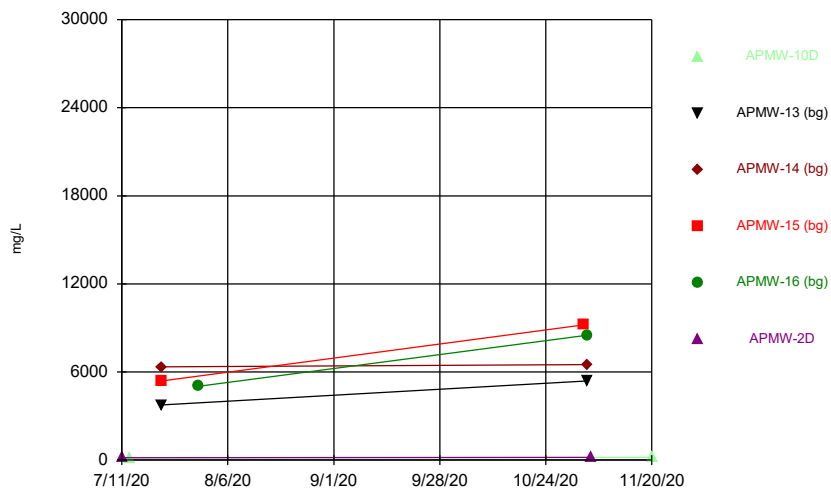
Constituent: Total Dissolved Solids Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



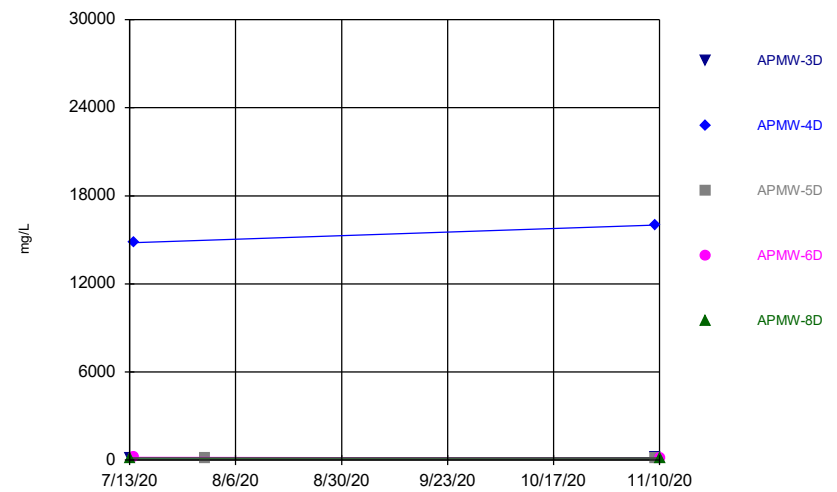
Constituent: Total Dissolved Solids Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 2/4/2021 1:42 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					<0.002	<0.002	<0.002		
4/25/2018	<0.002							<0.002	
6/13/2018	<0.002								
6/14/2018				<0.002	<0.002	<0.002	<0.002	<0.002	
7/23/2018	<0.002								
7/24/2018				<0.002	<0.002	<0.002	<0.002	<0.002	
9/1/2018	<0.002			<0.002	<0.002	<0.002	<0.002	<0.002	
10/1/2018				<0.002	<0.002	<0.002	<0.002		
10/2/2018	<0.002							<0.002	
11/1/2018	<0.002								
11/2/2018				<0.002	<0.002	<0.002	<0.002	<0.002	
12/6/2018	<0.002						<0.002	<0.002	
12/7/2018				<0.002	<0.002	<0.002			
2/13/2019	<0.002			<0.002	<0.002	<0.002	<0.002	<0.002	
3/16/2019		<0.002	<0.002	<0.002					
3/27/2019		<0.002 (D)	<0.002 (D)	<0.002					
4/3/2019		<0.002 (D)	<0.002 (D)	<0.002					
4/5/2019									<0.002 (D)
4/15/2019				<0.002					<0.002
4/16/2019		<0.002	<0.002						
5/2/2019				<0.002					<0.002
5/3/2019		<0.002	<0.002						
5/14/2019		<0.002	<0.002	<0.002					<0.002
5/28/2019				<0.002					
5/29/2019		<0.002	<0.002						<0.002
6/12/2019		<0.002	<0.002	<0.002					<0.002
6/19/2019									<0.002
6/25/2019									<0.002
8/8/2019	<0.002	<0.002	<0.002	<0.002	0.0014 (J)	<0.002			
8/9/2019							<0.002	<0.002	<0.002
8/29/2019		<0.002	<0.002						
8/30/2019	<0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/16/2020				<0.002	<0.002	<0.002	<0.002		
3/17/2020	<0.002	<0.002	<0.002					<0.002	<0.002
11/4/2020				<0.002					
11/5/2020					<0.002	<0.002			
11/9/2020		<0.002					<0.002	<0.002	
11/20/2020	<0.002		<0.002						<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	<0.002	<0.002	<0.002						
6/13/2018			<0.002						
6/14/2018	<0.002	<0.002							
7/23/2018		<0.002	<0.002						
7/24/2018	<0.002								
9/6/2018	<0.002	<0.002	<0.002						
10/2/2018	<0.002	<0.002	<0.002						
11/1/2018		<0.002	<0.002						
11/2/2018	<0.002								
12/6/2018	<0.002	<0.002	<0.002						
2/13/2019	<0.002	<0.002	<0.002						
8/8/2019			<0.002						
8/9/2019	<0.002	<0.002							
8/30/2019	<0.002	<0.002	<0.002						
3/17/2020	<0.002	<0.002	<0.002						
7/11/2020									<0.002
7/13/2020				<0.002					
7/21/2020					<0.002	<0.002	<0.002		
7/30/2020								<0.002	
11/3/2020							<0.002		
11/4/2020					<0.002	<0.002		<0.002	
11/5/2020									<0.002
11/9/2020		<0.002							
11/10/2020	<0.002								
11/20/2020			<0.002	<0.002					

Time Series

Constituent: Antimony (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	<0.002				<0.002
7/14/2020		<0.002		<0.002	
7/30/2020			<0.002		
11/9/2020	<0.002	<0.002	<0.002		
11/10/2020				<0.002	<0.002

Time Series

Constituent: Arsenic (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					0.00077 (J)	0.084	0.019		
4/25/2018	0.13							0.24	
6/13/2018	0.11								
6/14/2018					<0.001	0.081	0.018	0.22	
7/23/2018	0.13								
7/24/2018					<0.001	0.093	0.018	0.23	
9/1/2018	0.12				<0.001	0.099	0.017	0.22	
10/1/2018					0.00094 (J)	0.077	0.017		
10/2/2018	0.11							0.21	
11/1/2018	0.11								
11/2/2018					0.0012 (J)	0.067	0.018	0.26	
12/6/2018	0.12						0.018	0.23	
12/7/2018					<0.001	0.063			
2/13/2019	0.098				<0.001	0.065	0.019	0.23	
3/16/2019		0.00062 (J)	0.00084 (J)	0.0021					
3/27/2019		<0.001 (D)	<0.001 (D)	0.0019					
4/3/2019		<0.001 (D)	0.0013 (D)	0.0019					
4/5/2019									0.13 (D)
4/15/2019				0.0025					0.13
4/16/2019		<0.001	0.0013						
5/2/2019				0.0019					0.089
5/3/2019		<0.001	0.0011 (J)						
5/14/2019		<0.001	0.00061 (J)	0.0027					0.13
5/28/2019				<0.001					
5/29/2019		0.00037 (J)	0.0011						0.12
6/12/2019		0.00056 (J)	0.0013	0.0023					0.13
6/19/2019									0.16
6/25/2019									0.13
8/8/2019	0.11	<0.001	0.001	0.0012	0.00035 (J)	0.074			
8/9/2019							0.018	0.24	0.16
8/29/2019		<0.001	0.00041 (J)						
8/30/2019	0.079			0.0011	<0.001	0.07	0.016	0.2	0.17
3/16/2020				0.00085 (J)	<0.001	0.071	0.017		
3/17/2020	0.093	<0.001	0.00043 (J)					0.21	0.18
11/4/2020				0.00069 (J)					
11/5/2020					<0.001	0.064			
11/9/2020		<0.001					0.018	0.26	
11/20/2020	0.072		0.00042 (J)						0.18

Time Series

Constituent: Arsenic (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	0.0021	0.097	0.0016						
6/13/2018			0.001 (J)						
6/14/2018	0.0015	0.089							
7/23/2018		0.094	0.0011 (J)						
7/24/2018	0.0015								
9/6/2018	0.0013	0.082	0.0011 (J)						
10/2/2018	0.0014	0.075	0.0015						
11/1/2018		0.081	0.0014						
11/2/2018	0.0028								
12/6/2018	0.0033	0.079	0.0016						
2/13/2019	0.0012 (J)	0.077	0.0013						
8/8/2019			0.0012						
8/9/2019	0.00053 (J)	0.052							
8/30/2019	0.00044 (J)	0.05	0.0011						
3/17/2020	0.00053 (J)	0.043	0.001						
7/11/2020									0.00374
7/13/2020				0.0116					
7/21/2020					<0.001	0.00215	0.00277		
7/30/2020								0.00496	
11/3/2020							0.0013		
11/4/2020					0.00032 (J)	<0.001		0.0036	
11/5/2020									0.0033
11/9/2020		0.036							
11/10/2020	0.00058 (J)								
11/20/2020			0.0012	0.019					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	0.002				0.000995 (J)
7/14/2020		0.00773		0.00412	
7/30/2020			0.00958		
11/9/2020	0.0033	0.0043	0.012		
11/10/2020				0.0041	0.0034

Time Series

Constituent: Barium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					2.8	0.097	0.46		
4/25/2018	0.26							0.093	
6/13/2018	0.3								
6/14/2018					3.1	0.11	0.5	0.11	
7/23/2018	0.24								
7/24/2018					3	0.1	0.54	0.093	
9/1/2018	0.25				2.9	0.12	0.53	0.1	
10/1/2018					4	0.1	0.5		
10/2/2018	0.23							0.1	
11/1/2018	0.23								
11/2/2018					3.1	0.1	0.5	0.12	
12/6/2018	0.24						0.43	0.1	
12/7/2018					3.3	0.11			
2/13/2019	0.26				2.9	0.1	0.45	0.1	
3/16/2019		0.09	0.069	0.89					
3/27/2019		0.095 (D)	0.079 (D)	1.1					
4/3/2019		0.085 (D)	0.075 (D)	1.1					
4/5/2019									0.071 (D)
4/15/2019				0.98					0.067
4/16/2019		0.081	0.072						
5/2/2019				0.94					0.071
5/3/2019		0.074	0.076						
5/14/2019		0.083	0.076	1					0.068
5/28/2019				1					
5/29/2019		0.04	0.091						0.067 (J)
6/12/2019		0.066	0.083	0.91					0.064 (J)
6/19/2019									0.059 (J)
6/25/2019									0.057 (J)
8/8/2019	0.24	0.053	0.065	0.93	3.2	0.1			
8/9/2019							0.33	0.11	0.058
8/29/2019		0.043	0.071						
8/30/2019	0.2			0.91	2.7	0.1	0.29	0.086	0.052
3/16/2020				1.2	3.2	0.1	0.27		
3/17/2020	0.25	0.037	0.07					0.1	0.05
11/4/2020				1.4					
11/5/2020					3.2	0.1			
11/9/2020		0.038					0.23	0.1	
11/20/2020	0.27		0.065						0.048

Time Series

Constituent: Barium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	0.66	0.2	0.42						
6/13/2018			0.45						
6/14/2018	0.74	0.22							
7/23/2018		0.2	0.42						
7/24/2018	0.72								
9/6/2018	0.79	0.22	0.45						
10/2/2018	0.93	0.21	0.43						
11/1/2018		0.21	0.43						
11/2/2018	1.1								
12/6/2018	0.7	0.22	0.44						
2/13/2019	0.59	0.23	0.44						
8/8/2019			0.42						
8/9/2019	0.76	0.2							
8/30/2019	0.56	0.2	0.42						
3/17/2020	0.53	0.21	0.49						
7/11/2020									0.0418
7/13/2020				0.0358					
7/21/2020					0.212	0.243	0.059		
7/30/2020								0.0659	
11/3/2020							0.054		
11/4/2020					0.11	0.22		0.076	
11/5/2020									0.038
11/9/2020		0.23							
11/10/2020	0.77								
11/20/2020			0.48	0.032					

Time Series

Constituent: Barium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	0.135				0.192
7/14/2020		0.342		0.107	
7/30/2020			0.0659		
11/9/2020	0.14	0.24	0.069		
11/10/2020				0.077	0.12

Time Series

Constituent: Beryllium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					<0.0025	<0.0025	<0.0025		
4/25/2018	<0.0025							<0.0025	
6/13/2018	<0.0025								
6/14/2018				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
7/23/2018	<0.0025								
7/24/2018				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
9/1/2018	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025	
10/1/2018					<0.0025	<0.0025	<0.0025		
10/2/2018	<0.0025							<0.0025	
11/1/2018	<0.0025								
11/2/2018				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
12/6/2018	<0.0025						<0.0025	<0.0025	
12/7/2018				<0.0025	<0.0025				
2/13/2019	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025	
3/16/2019		<0.0025	<0.0025	<0.0025					
3/27/2019		<0.0025 (D)	<0.0025 (D)	<0.0025					
4/3/2019		<0.0025 (D)	<0.0025 (D)	<0.0025					
4/5/2019									<0.0025 (D)
4/15/2019				<0.0025					<0.0025
4/16/2019		<0.0025	<0.0025						
5/2/2019				<0.0025					<0.0025
5/3/2019		<0.0025	<0.0025						
5/14/2019		<0.0025	<0.0025	<0.0025					<0.0025
5/28/2019				<0.0025					
5/29/2019		0.00019 (J)	<0.0025						<0.0025
6/12/2019		<0.0025	<0.0025	<0.0025					<0.0025
6/19/2019									<0.0025
6/25/2019									<0.0025
8/8/2019	<0.0025	<0.0025	<0.0025	<0.0025	0.00061 (J)	<0.0025			
8/9/2019							<0.0025	<0.0025	<0.0025
8/29/2019		0.0002 (J)	0.00023 (J)						
8/30/2019	0.00043 (J)			0.00019 (J)	0.00023 (J)	0.00018 (J)	<0.0025	<0.0025	0.00036 (J)
3/16/2020				<0.0025	<0.0025	<0.0025	<0.0025		
3/17/2020	<0.0025	<0.0025	<0.0025					<0.0025	<0.0025
11/4/2020				<0.0025					
11/5/2020					<0.0025	<0.0025			
11/9/2020		<0.0025					<0.0025	<0.0025	
11/20/2020	<0.0025		<0.0025						<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	<0.0025	<0.0025	<0.0025						
6/13/2018			<0.0025						
6/14/2018	<0.0025	<0.0025							
7/23/2018		<0.0025	<0.0025						
7/24/2018	<0.0025								
9/6/2018	<0.0025	<0.0025	<0.0025						
10/2/2018	<0.0025	<0.0025	<0.0025						
11/1/2018		<0.0025	<0.0025						
11/2/2018	<0.0025								
12/6/2018	<0.0025	<0.0025	<0.0025						
2/13/2019	<0.0025	<0.0025	<0.0025						
8/8/2019			<0.0025						
8/9/2019	<0.0025	<0.0025							
8/30/2019	0.00025 (J)	0.00038 (J)	0.00049 (J)						
3/17/2020	<0.0025	<0.0025	<0.0025						
7/11/2020									<0.0025
7/13/2020				<0.0025					
7/21/2020					<0.0025	<0.0025	<0.0025		
7/30/2020								<0.0025	
11/3/2020							<0.0025		
11/4/2020					<0.0025	<0.0025		<0.0025	
11/5/2020									<0.0025
11/9/2020		<0.0025							
11/10/2020	<0.0025								
11/20/2020			<0.0025	<0.0025					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	<0.0025				<0.0025
7/14/2020		<0.0025		<0.0025	
7/30/2020			<0.0025		
11/9/2020	<0.0025	<0.0025	<0.0025		
11/10/2020				<0.0025	<0.0025

Time Series

Constituent: Boron (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					4.1	5.3	1.9		
4/25/2018	1.7							6.9	
6/13/2018	1.7								
6/14/2018				4	5.1		1.9	6.8	
7/23/2018	2								
7/24/2018					4.3	5.5	1.9	6.9	
9/1/2018	1.9			4	4.9		1.7	6.2	
10/1/2018				4	5		1.7		
10/2/2018	1.8							6.5	
11/1/2018	1.8								
11/2/2018					3.5	4.6	1.7	5.5	
12/6/2018	1.9						1.7	5.7	
12/7/2018					3.9	4.8			
2/13/2019	2.4				4.4	6	1.7	7.6	
3/16/2019		0.028 (J)	0.035 (J)	4.5					
3/27/2019		0.027 (JD)	0.033 (JD)	5.2					
4/3/2019		0.089 (D)	0.023 (JD)	5.3					
4/4/2019	1.8							5.8	
4/5/2019					3.6	4.5	1.6		8.9 (D)
4/15/2019				5.9					10
4/16/2019		<0.08	<0.08						
5/2/2019				5.3					10
5/3/2019		<0.08	0.021 (J)						
5/14/2019		<0.08	<0.08	5.5					9.3
5/28/2019				5.7					
5/29/2019		0.034 (J)	0.044 (J)						9.5
6/12/2019		0.05 (J)	0.047 (J)	4.4					11
6/19/2019									9.5
6/25/2019									11
8/29/2019		<0.08	<0.08						
8/30/2019	1.9			6.2	3.7	5	1.6	6.1	11
3/16/2020				7.2	3.7	5.3	1.6		
3/17/2020	1.9	0.057 (J)	0.057 (J)					6.6	11
11/4/2020				6.8					
11/5/2020					3.6	5.1			
11/9/2020		<0.08					1.3	5.8	
11/20/2020	1.8		0.098						9.5

Time Series

Constituent: Boron (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	1	23	6.8						
6/13/2018			6.6						
6/14/2018	0.91	21							
7/23/2018		22	6.8						
7/24/2018	1								
9/6/2018	1.1	21	6.5						
10/2/2018	0.95	21	6.5						
11/1/2018		19	5.6						
11/2/2018	0.82								
12/6/2018	1.1	20	6.4						
2/13/2019	0.95	27	8.4						
4/4/2019	0.98	20	6.1						
8/30/2019	0.88	19	7.1						
3/17/2020	0.98	20	7.1						
7/11/2020									0.0771
7/13/2020				0.105					
7/21/2020					0.58	0.718	0.609		
7/30/2020								0.62	
11/3/2020							1.2		
11/4/2020					0.88	0.85		1.2	
11/5/2020									0.12
11/9/2020		21							
11/10/2020	0.94								
11/20/2020			6.5	0.22					

Time Series

Constituent: Boron (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	0.0613				0.042 (J)
7/14/2020		3.55		0.0574	
7/30/2020			0.0792		
11/9/2020	0.072 (J)	3.6	0.062 (J)		
11/10/2020				0.068 (J)	0.076 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					<0.0025	<0.0025	<0.0025		
4/25/2018	<0.0025							<0.0025	
6/13/2018	<0.0025								
6/14/2018				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
7/23/2018	<0.0025								
7/24/2018				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
9/1/2018	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025	
10/1/2018					<0.0025	<0.0025	<0.0025		
10/2/2018	<0.0025							<0.0025	
11/1/2018	<0.0025								
11/2/2018				<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
12/6/2018	<0.0025						<0.0025	<0.0025	
12/7/2018				<0.0025	<0.0025				
2/13/2019	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025	
3/16/2019		<0.0025	<0.0025	<0.0025					
3/27/2019		<0.0025 (D)	<0.0025 (D)	<0.0025					
4/3/2019		<0.0025 (D)	<0.0025 (D)	<0.0025					
4/5/2019									<0.0025 (D)
4/15/2019				0.00045 (J)					<0.0025
4/16/2019		<0.0025	<0.0025						
5/2/2019				<0.0025					<0.0025
5/3/2019		<0.0025	<0.0025						
5/14/2019		<0.0025	<0.0025	<0.0025					<0.0025
5/28/2019				<0.0025					
5/29/2019		<0.0025	<0.0025						<0.0025
6/12/2019		<0.0025	<0.0025	<0.0025					<0.0025
6/19/2019									<0.0025
6/25/2019									<0.0025
8/8/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
8/9/2019							<0.0025	<0.0025	0.00014 (J)
8/29/2019		<0.0025	<0.0025						
8/30/2019	<0.0025			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00026 (J)
3/16/2020				<0.0025	<0.0025	<0.0025	<0.0025		
3/17/2020	<0.0025	<0.0025	<0.0025					<0.0025	<0.0025
11/4/2020				<0.0025					
11/5/2020					<0.0025	<0.0025			
11/9/2020		<0.0025					<0.0025	<0.0025	
11/20/2020	<0.0025		<0.0025						<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	<0.0025	<0.0025	<0.0025						
6/13/2018			<0.0025						
6/14/2018	<0.0025	<0.0025							
7/23/2018		<0.0025	<0.0025						
7/24/2018	<0.0025								
9/6/2018	<0.0025	<0.0025	<0.0025						
10/2/2018	<0.0025	<0.0025	<0.0025						
11/1/2018		<0.0025	<0.0025						
11/2/2018	<0.0025								
12/6/2018	<0.0025	<0.0025	<0.0025						
2/13/2019	<0.0025	<0.0025	<0.0025						
8/8/2019			<0.0025						
8/9/2019	<0.0025	<0.0025							
8/30/2019	<0.0025	<0.0025	<0.0025						
3/17/2020	<0.0025	<0.0025	<0.0025						
7/11/2020									<0.0025
7/13/2020				<0.0025					
7/21/2020					<0.0025	<0.0025	<0.0025		
7/30/2020								0.000355 (J)	
11/3/2020							<0.0025		
11/4/2020					<0.0025	<0.0025		<0.0025	
11/5/2020									<0.0025
11/9/2020		<0.0025							
11/10/2020	<0.0025								
11/20/2020			<0.0025	<0.0025					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	<0.0025				<0.0025
7/14/2020		<0.0025		<0.0025	
7/30/2020			<0.0025		
11/9/2020	<0.0025	<0.0025	<0.0025		
11/10/2020				<0.0025	<0.0025

Time Series

Constituent: Calcium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					310	320	190		
4/25/2018	68							350	
6/13/2018	79								
6/14/2018					360	310	200	340	
7/23/2018	73								
7/24/2018					370	360	210	340	
9/1/2018	68				390	320	220	360	
10/1/2018					380	360	210		
10/2/2018	71							310	
11/1/2018	67								
11/2/2018					320	310	190	310	
12/6/2018	65						190	330	
12/7/2018					330	320			
2/13/2019	64				320	300	180	310	
3/16/2019		17	13	130					
3/27/2019		16 (D)	15 (D)	140					
4/3/2019		15 (D)	13 (D)	140					
4/4/2019	80							270	
4/5/2019					310	290	170		440 (D)
4/15/2019				130					390
4/16/2019		13	12						
5/2/2019				130					400
5/3/2019		12	13						
5/14/2019		14	13	140					420
5/28/2019				150					
5/29/2019		7	15						450
6/12/2019		13	14	130					440
6/19/2019									450
6/25/2019									450
8/29/2019		9.4	12						
8/30/2019	53			160	340	320	170	320	460
3/16/2020				200	350	310	170		
3/17/2020	59	9.8	12					330	420
11/4/2020				200					
11/5/2020					350	370			
11/9/2020		11					160	330	
11/20/2020	53		12						420

Time Series

Constituent: Calcium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	93	560	320						
6/13/2018			300						
6/14/2018	110	490							
7/23/2018		520	320						
7/24/2018	100								
9/6/2018	98	510	310						
10/2/2018	93	470	290						
11/1/2018		460	280						
11/2/2018	110								
12/6/2018	94	490	310						
2/13/2019	95	470	300						
4/4/2019	98	440	270						
8/30/2019	90	460	310						
3/17/2020	110	470	310						
7/11/2020									3.66
7/13/2020				2.62					
7/21/2020					97.7	127	81.7		
7/30/2020								99.2	
11/3/2020							120		
11/4/2020					110	120		130	
11/5/2020									4.6
11/9/2020		470							
11/10/2020	99								
11/20/2020			290	2.9					

Time Series

Constituent: Calcium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	5.41				10.5
7/14/2020		220		6.42	
7/30/2020			1.34		
11/9/2020	10	220	1.7		
11/10/2020				8.1	13

Time Series

Constituent: Chloride (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					2800	11000	4000		
4/25/2018	1300							8500	
6/13/2018	1400								
6/14/2018					2700	11000	4000	8700	
7/23/2018	1200								
7/24/2018					2800	11000	3900	8700	
9/1/2018	1400				2800	10000	4200	8900	
10/1/2018					2800	11000	4200		
10/2/2018	1400							9300	
11/1/2018	1300								
11/2/2018					2700	11000	4000	8900	
12/6/2018	1300						4000	9000	
12/7/2018					2700	12000			
2/13/2019	1200				2800	9800	3800	8600	
3/16/2019		9.3	14	1900					
3/27/2019		8.2 (D)	15 (D)	1900					
4/3/2019		8.7 (D)	15 (D)	1900					
4/4/2019	1200							8600	
4/5/2019					2600	9900	3900		4000 (D)
4/15/2019				1900					3400
4/16/2019		8.7	14						
5/2/2019				1900					4100
5/3/2019		9.3	15						
5/14/2019		8.8	15	2000					4200
5/28/2019				1900					
5/29/2019		8.8	14						4200
6/12/2019		8.8	15	2000					4200
6/19/2019									4000
6/25/2019									4000
8/29/2019		8.1	14						
8/30/2019	1200			2100	2500	9800	3600	8700	4100
3/16/2020				2600	2500	10000	3400		
3/17/2020	1100	8.2	14					8900	6000
11/4/2020				4700					
11/5/2020					5100	9600			
11/9/2020		9.1					3200	9400	
11/20/2020	1000		16						4300

Time Series

Constituent: Chloride (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	3900	3400	2800						
6/13/2018			3100						
6/14/2018	4100	3600							
7/23/2018		3500	3000						
7/24/2018	3900								
9/6/2018	4000	3600	3000						
10/2/2018	4000	3800	3100						
11/1/2018		3600	3000						
11/2/2018	3800								
12/6/2018	4300	3700	3100						
2/13/2019	4200	3500	3000						
4/4/2019	3700	3500	3100						
8/30/2019	4000	3400	2800						
3/17/2020	4600	3700	3100						
7/11/2020									5.74
7/13/2020				4.73					
7/21/2020					1470	2920	2910		
7/30/2020								2830	
11/3/2020							4900		
11/4/2020					5400	3100		4700	
11/5/2020									5.4
11/9/2020		3600							
11/10/2020	4200								
11/20/2020			3100	4.6					

Time Series

Constituent: Chloride (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	6.04				9.1
7/14/2020		9830		10.5	
7/30/2020			10.2		
11/9/2020	<1	9300	9.4		
11/10/2020				10	9

Time Series

Constituent: Chromium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					<0.002	<0.002	0.0016 (J)		
4/25/2018	<0.002							0.0013 (J)	
6/13/2018	<0.002								
6/14/2018					<0.002	<0.002	0.002 (J)	0.0012 (J)	
7/23/2018	<0.002								
7/24/2018					<0.002	<0.002	0.0022 (J)	<0.002	
9/1/2018	<0.002				<0.002	0.0014 (J)	0.0025	0.0024 (J)	
10/1/2018					<0.002	<0.002	0.0028		
10/2/2018	<0.002							0.0015 (J)	
11/1/2018	<0.002								
11/2/2018					<0.002	<0.002	0.0026	0.0014 (J)	
12/6/2018	<0.002						0.0012 (J)	<0.002	
12/7/2018					<0.002	<0.002			
2/13/2019	<0.002				<0.002	<0.002	0.0013 (J)	<0.002	
3/16/2019		<0.002	<0.002	<0.002					
3/27/2019		<0.002 (D)	<0.002 (D)	<0.002					
4/3/2019		<0.002 (D)	<0.002 (D)	<0.002					
4/5/2019									<0.002 (D)
4/15/2019				<0.002					<0.002
4/16/2019		<0.002	<0.002						
5/2/2019				<0.002					<0.002
5/3/2019		<0.002	<0.002						
5/14/2019		<0.002	<0.002	<0.002					<0.002
5/28/2019				<0.002					
5/29/2019		<0.002	<0.002						<0.002
6/12/2019		0.0022	0.0022	0.0032					<0.002
6/19/2019									<0.002
6/25/2019									<0.002
8/8/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
8/9/2019							<0.002	<0.002	<0.002
11/4/2020				<0.002					
11/5/2020					<0.002	<0.002			
11/9/2020		<0.002					<0.002	<0.002	
11/20/2020	<0.002		<0.002						<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	0.0014 (J)	<0.002	<0.002						
6/13/2018			<0.002						
6/14/2018	0.0014 (J)	0.0032							
7/23/2018		<0.002	<0.002						
7/24/2018	0.0014 (J)								
9/6/2018	0.0017 (J)	0.0014 (J)	<0.002						
10/2/2018	0.0013 (J)	<0.002	<0.002						
11/1/2018		<0.002	<0.002						
11/2/2018	0.0014 (J)								
12/6/2018	<0.002	<0.002	<0.002						
2/13/2019	<0.002	<0.002	<0.002						
8/8/2019			<0.002						
8/9/2019	<0.002	<0.002							
7/11/2020									0.00157 (J)
7/13/2020				<0.002					
7/21/2020					<0.002	<0.002	0.00152 (J)		
7/30/2020								<0.002	
11/3/2020							<0.002		
11/4/2020					<0.002	<0.002		<0.002	
11/5/2020									<0.002
11/9/2020		<0.002							
11/10/2020	<0.002								
11/20/2020			<0.002	<0.002					

Time Series

Constituent: Chromium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	<0.002				<0.002
7/14/2020		<0.002		<0.002	
7/30/2020			0.00378		
11/9/2020	<0.002	<0.002	0.0019 (J)		
11/10/2020				<0.002	<0.002

Time Series

Constituent: Cobalt (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					<0.0025	0.0026	0.0033		
4/25/2018	<0.0025							<0.0025	
6/13/2018	<0.0025								
6/14/2018					<0.0025	0.0023 (J)	0.0032	<0.0025	
7/23/2018	<0.0025								
7/24/2018					<0.0025	0.0026	0.0036	<0.0025	
9/1/2018	<0.0025				<0.0025	0.0023 (J)	0.0039	<0.0025	
10/1/2018					<0.0025	0.0028	0.0029		
10/2/2018	<0.0025							<0.0025	
11/1/2018	<0.0025								
11/2/2018					<0.0025	0.0027	0.0034	<0.0025	
12/6/2018	<0.0025						0.0032	<0.0025	
12/7/2018					<0.0025	0.0028			
2/13/2019	<0.0025				<0.0025	0.0028	0.0043	<0.0025	
3/16/2019		<0.0025	<0.0025	0.00057 (J)					
3/27/2019		<0.0025 (D)	<0.0025 (D)	0.00044 (J)					
4/3/2019		<0.0025 (D)	<0.0025 (D)	0.0004 (J)					
4/5/2019									0.0049 (D)
4/15/2019				0.00042 (J)					0.0045
4/16/2019		<0.0025	<0.0025						
5/2/2019				<0.0025					0.0012 (J)
5/3/2019		<0.0025	<0.0025						
5/14/2019		<0.0025	<0.0025	0.00044 (J)					0.0024 (J)
5/28/2019				<0.0025					
5/29/2019		<0.0025	<0.0025						0.0022 (J)
6/12/2019		<0.0025	<0.0025	0.00037 (J)					0.002 (J)
6/19/2019									0.004 (J)
6/25/2019									0.0014 (J)
8/8/2019	0.00012 (J)	<0.0025	<0.0025	0.00017 (J)	<0.0025	0.0019			
8/9/2019							0.0034	7.5E-05 (J)	0.0022
8/29/2019		<0.0025	<0.0025						
8/30/2019	8.2E-05 (J)			0.00017 (J)	<0.0025	0.0025	0.0034	7.9E-05 (J)	0.0039
3/16/2020				<0.0025	<0.0025	0.0022	0.0039		
3/17/2020	<0.0025	<0.0025	<0.0025					<0.0025	0.0029
11/4/2020				<0.0025					
11/5/2020					<0.0025	0.003			
11/9/2020		0.00022 (J)					0.0037	<0.0025	
11/20/2020	<0.0025		<0.0025						0.0024 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	<0.0025	<0.0025	<0.0025						
6/13/2018			<0.0025						
6/14/2018	<0.0025	<0.0025							
7/23/2018		<0.0025	<0.0025						
7/24/2018	<0.0025								
9/6/2018	0.00043 (J)	<0.0025	<0.0025						
10/2/2018	<0.0025	<0.0025	<0.0025						
11/1/2018		<0.0025	<0.0025						
11/2/2018	<0.0025								
12/6/2018	<0.0025	<0.0025	<0.0025						
2/13/2019	<0.0025	<0.0025	<0.0025						
8/8/2019			8.4E-05 (J)						
8/9/2019	0.00025 (J)	<0.0025							
8/30/2019	0.00023 (J)	<0.0025	8.9E-05 (J)						
3/17/2020	0.00024 (J)	<0.0025	<0.0025						
7/11/2020									<0.0025
7/13/2020				<0.0025					
7/21/2020					<0.0025	<0.0025	<0.0025		
7/30/2020								<0.0025	
11/3/2020							<0.0025		
11/4/2020					<0.0025	<0.0025		<0.0025	
11/5/2020									<0.0025
11/9/2020		<0.0025							
11/10/2020	0.00024 (J)								
11/20/2020			<0.0025	<0.0025					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	<0.0025				0.00121 (J)
7/14/2020		0.00381		<0.0025	
7/30/2020			0.0011 (J)		
11/9/2020	0.00021 (J)	0.0031	0.00071 (J)		
11/10/2020				<0.0025	<0.0025

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					21.8	5.84	2.4		
4/25/2018	2.66							3.67	
6/13/2018	2.91								
6/14/2018				20.9	6.37		2.5	4.18	
7/23/2018	3.49								
7/24/2018				19.2	7.22		3.01	4.95	
9/1/2018	3.15			17.5	5.46		2.3	4.44	
10/1/2018				19.9	8.54		3.49		
10/2/2018	3.38							4.79	
11/1/2018	2.19								
11/2/2018				17.4	6.02		1.94	4	
12/6/2018	2.69						2.68	5.01	
12/7/2018				18.5	6.26				
2/13/2019	2.97			19.2	6.67		2.05	4.53	
3/16/2019		0.421	0.765	5.87					
3/27/2019		0.499	0.306 (U)	6.56					
4/3/2019		0.526	1.12	7.03					
4/5/2019									2.85
4/15/2019				6.75					3.24
4/16/2019		0.73	0.447						
5/2/2019				6.82					3
5/3/2019		0.32 (U)	0.357						
5/14/2019		0.431 (U)	0.342 (U)	6.96					3.2
5/28/2019				4.12					
5/29/2019		0.205 (U)	0.519 (U)						2.88
6/12/2019		<5	<5	8.8					3.04
6/19/2019									3.59
6/25/2019									3.61
8/8/2019	2.16	0.535	0.262 (U)	7.52	18.7	6.41			
8/9/2019							2.09	3.81	3.14
8/29/2019		0.19 (U)	0.253 (U)						
8/30/2019	2.19			7.98	16.5	5.45	1.24	2.82	2.52
3/16/2020				10.6	18.8	6.5	1.71		
3/17/2020	2.94	0.596	0.703					4.23	3.16
11/4/2020				8.99					
11/5/2020					15.3	5.33			
11/9/2020		0.0786 (U)					2	3.42	
11/20/2020	3.47		0.199 (U)						3.32

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	5.8	3.26	6.49						
6/13/2018			6.43						
6/14/2018	5.94	3.41							
7/23/2018		4.02	6.82						
7/24/2018	6.56								
9/6/2018	7.39	3.86	7.4						
10/2/2018	8.19	4.63	7.43						
11/1/2018		3.37	6.67						
11/2/2018	5.87								
12/6/2018	6.64	3.92	6.92						
2/13/2019	6.19	3.66	6.91						
8/8/2019			6.71						
8/9/2019	6.86	3.52							
8/30/2019	6.63	3.96	7.32						
3/17/2020	5.37	3.43	7.36						
7/11/2020									0.179 (U)
7/13/2020				0.272 (U)					
7/21/2020					2.72	4.86	3.28		
7/30/2020								2.38	
11/3/2020							1.39		
11/4/2020					1.59	3.79		1.53	
11/5/2020									0.158 (U)
11/9/2020		2.55							
11/10/2020	6.91								
11/20/2020			8.11	-0.129 (U)					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	0.857				0.898
7/14/2020		9.33		0.591	
7/30/2020			0.29 (UD)		
11/9/2020	0.501	6.03	0.381 (U)		
11/10/2020				0.113 (U)	0.293 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					0.06 (J)	0.33	0.52		
4/25/2018	0.69							0.09 (J)	
6/13/2018	0.64								
6/14/2018					0.06 (J)	0.37	0.51	0.09 (J)	
7/23/2018	0.76								
7/24/2018					0.07 (J)	0.42	0.52	0.09 (J)	
9/1/2018	0.81				0.08 (J)	0.45	0.54	0.1	
10/1/2018					0.07 (J)	0.39	0.54		
10/2/2018	0.78							0.09 (J)	
11/1/2018	0.88								
11/2/2018					0.08 (J)	0.42	0.58	0.11	
12/6/2018	0.75						0.51	1.4 (o)	
12/7/2018					4.3 (o)	0.64			
2/13/2019	0.72				0.05 (J)	0.35	0.48	0.07 (J)	
3/16/2019		0.047 (J)	0.041 (J)	<2					
3/27/2019		<2 (D)	0.49 (D)	<2					
4/3/2019		<2 (D)	0.086 (JD)	<2					
4/4/2019	0.63							<2	
4/5/2019					0.14 (J)	0.7 (J)	0.31 (J)		<2 (D)
4/15/2019				0.14 (J)					<2
4/16/2019		0.034 (J)	0.055 (J)						
5/2/2019				0.13 (J)					<2
5/3/2019		0.042 (J)	0.058 (J)						
5/14/2019		0.039 (J)	0.071 (J)	<2					<2
5/28/2019				0.16 (J)					
5/29/2019		<2	0.042 (J)						<2
6/12/2019		<2	0.037 (J)	<2					<2
6/19/2019									<2
6/25/2019									0.32 (J)
8/8/2019	0.58	0.051 (J)	0.072 (J)	0.21 (J)	0.19 (J)	0.8 (J)			
8/9/2019							0.51	<2	<2
8/29/2019		0.061 (J)	0.065 (J)						
8/30/2019	0.5			0.21 (J)	0.17 (J)	<2	0.54 (J)	<2	0.27 (J)
3/16/2020				<2	<2	<2	<2		
3/17/2020	0.38	<2	0.036 (J)					<2	<2
11/4/2020				<2					
11/5/2020					<2	<2			
11/9/2020		<2					<2	<2	
11/20/2020	0.81		<2						<2

Time Series

Constituent: Fluoride (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	0.11	1	0.06 (J)						
6/13/2018			0.06 (J)						
6/14/2018	0.12	1							
7/23/2018		1	0.06 (J)						
7/24/2018	0.12								
9/6/2018	0.13	1.1	0.06 (J)						
10/2/2018	0.13	1	0.07 (J)						
11/1/2018		1.1	0.07 (J)						
11/2/2018	0.14								
12/6/2018	0.13	0.98	0.21 (o)						
2/13/2019	0.1	0.98	0.07 (J)						
4/4/2019	<2	0.58 (J)	<2						
8/8/2019			0.2 (J)						
8/9/2019	0.22 (J)	0.9 (J)							
8/30/2019	0.41 (J)	0.85 (J)	0.18 (J)						
3/17/2020	1.6	0.52 (J)	<2						
7/11/2020									0.24
7/13/2020				0.24					
7/21/2020					0.09 (J)	0.07 (J)	0.17		
7/30/2020								0.19	
11/3/2020							<2		
11/4/2020					0.24 (J)	<2		<2	
11/5/2020									0.15 (J)
11/9/2020		0.74 (J)							
11/10/2020	<2								
11/20/2020			<2	0.13 (J)					

Time Series

Constituent: Fluoride (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	0.17				0.15
7/14/2020		0.14		0.22	
7/30/2020			0.17		
11/9/2020	0.18 (J)	<2	0.17 (J)		
11/10/2020				0.21	0.22

Time Series

Constituent: Lead (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					<0.001	<0.001	<0.001		
4/25/2018	<0.001							<0.001	
6/13/2018	<0.001								
6/14/2018				<0.001	<0.001	<0.001	<0.001	<0.001	
7/23/2018	<0.001								
7/24/2018				<0.001	<0.001	<0.001	<0.001	<0.001	
9/1/2018	<0.001			<0.001	<0.001	<0.001	<0.001	<0.001	
10/1/2018				<0.001	<0.001	<0.001	<0.001		
10/2/2018	<0.001							<0.001	
11/1/2018	0.0011 (J)								
11/2/2018				<0.001	0.00048 (J)	0.00062 (J)	0.0011 (J)		
12/6/2018	0.0006 (J)						<0.001	0.00041 (J)	
12/7/2018				<0.001	<0.001				
2/13/2019	<0.001			<0.001	<0.001	<0.001	<0.001	0.00036 (J)	
3/16/2019		<0.001	<0.001	<0.001					
3/27/2019		<0.001 (D)	<0.001 (D)	<0.001					
4/3/2019		<0.001 (D)	<0.001 (D)	<0.001					
4/5/2019									<0.001 (D)
4/15/2019				<0.001					<0.001
4/16/2019		<0.001	<0.001						
5/2/2019				<0.001					<0.001
5/3/2019		<0.001	<0.001						
5/14/2019		<0.001	<0.001	<0.001					<0.001
5/28/2019				<0.001					
5/29/2019		<0.001	<0.001						<0.001
6/12/2019		<0.001	<0.001	<0.001					<0.001
6/19/2019									<0.001
6/25/2019									<0.001
8/8/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			
8/9/2019							<0.001	<0.001	<0.001
8/29/2019		<0.001	0.00017 (J)						
8/30/2019	<0.001			<0.001	<0.001	<0.001	<0.001	<0.001	0.00032 (J)
3/16/2020				<0.001	<0.001	<0.001	<0.001		
3/17/2020	<0.001	<0.001	<0.001					<0.001	<0.001
11/4/2020				<0.001					
11/5/2020					<0.001	<0.001			
11/9/2020		<0.001					<0.001	<0.001	
11/20/2020	<0.001		<0.001						<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	<0.001	<0.001	<0.001						
6/13/2018			<0.001						
6/14/2018	<0.001	<0.001							
7/23/2018		<0.001	<0.001						
7/24/2018	<0.001								
9/6/2018	<0.001	<0.001	<0.001						
10/2/2018	<0.001	<0.001	<0.001						
11/1/2018		0.0016	<0.001						
11/2/2018	0.0019								
12/6/2018	<0.001	0.0013	0.00039 (J)						
2/13/2019	<0.001	<0.001	<0.001						
8/8/2019			0.00013 (J)						
8/9/2019	<0.001	<0.001							
8/30/2019	<0.001	<0.001	<0.001						
3/17/2020	<0.001	<0.001	<0.001						
7/11/2020									0.000555 (J)
7/13/2020				0.00116 (J)					
7/21/2020					<0.001	<0.001	<0.001		
7/30/2020								<0.001	
11/3/2020							<0.001		
11/4/2020					<0.001	<0.001		<0.001	
11/5/2020									0.00024 (J)
11/9/2020		<0.001							
11/10/2020	<0.001								
11/20/2020			<0.001	0.00089 (J)					

Time Series

Constituent: Lead (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	<0.001				<0.001
7/14/2020		<0.001		<0.001	
7/30/2020			0.00203		
11/9/2020	<0.001	<0.001	0.00099 (J)		
11/10/2020				<0.001	<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					0.029	0.11	0.079		
4/25/2018	0.021							0.069	
6/13/2018	0.013								
6/14/2018					0.023	0.073	0.055	0.046	
7/23/2018	0.015								
7/24/2018					0.023	0.079	0.057	0.049	
9/1/2018	0.015				0.022	0.088	0.054	0.045	
10/1/2018					0.026	0.091	0.063		
10/2/2018	0.017							0.052	
11/1/2018	0.038								
11/2/2018					0.024 (J)	0.081	0.077	0.074	
12/6/2018	0.011						0.054	0.044	
12/7/2018					0.022	0.072			
2/13/2019	0.012				0.02	0.071	0.053	0.045	
3/16/2019		0.0088	0.012	0.013					
3/27/2019		0.01 (D)	0.012 (D)	0.014					
4/3/2019		0.0068 (D)	0.013 (D)	0.01					
4/5/2019									0.051 (D)
4/15/2019				0.012					0.054
4/16/2019		0.0081	0.012						
5/2/2019				0.013					0.055
5/3/2019		0.01	0.015						
5/14/2019		0.011	0.015	0.011					0.047
5/28/2019				<0.005					
5/29/2019		0.0062	0.015						0.055
6/12/2019		0.0099	0.013	0.012					0.062
6/19/2019									0.059
6/25/2019									0.052
8/8/2019	0.018	0.012	0.016	0.012	0.031	0.076			
8/9/2019							0.061	0.049	0.063
8/29/2019		0.0067	0.011						
8/30/2019	0.01			0.011	0.022	0.072	0.052	0.044	0.059
3/16/2020				0.013	0.03	0.07	0.053		
3/17/2020	0.017	0.014	0.017					0.044	0.056
11/4/2020				0.014					
11/5/2020					0.031	0.07			
11/9/2020		0.011					0.049	0.044	
11/20/2020	0.013		0.015						0.055

Time Series

Constituent: Lithium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	0.004 (J)	0.13	0.0039 (J)						
6/13/2018			0.0027 (J)						
6/14/2018	0.0026 (J)	0.085							
7/23/2018		0.09	0.0041 (J)						
7/24/2018	0.003 (J)								
9/6/2018	0.0029 (J)	0.099	0.0035 (J)						
10/2/2018	0.0021 (J)	0.095	0.004 (J)						
11/1/2018		0.16	0.018 (o)						
11/2/2018	0.014 (o)								
12/6/2018	<0.005	0.082	<0.005						
2/13/2019	0.0018 (J)	0.08	0.0026 (J)						
8/8/2019			0.0053						
8/9/2019	<0.005	0.086							
8/30/2019	<0.005	0.068	<0.005						
3/17/2020	0.0071	0.08	0.0077						
7/11/2020									0.0103
7/13/2020				0.0136					
7/21/2020					0.00196 (J)	<0.005	0.00623		
7/30/2020								0.00523	
11/3/2020							0.03		
11/4/2020					0.016	<0.005		0.029	
11/5/2020									0.01
11/9/2020		0.08							
11/10/2020	0.0048 (J)								
11/20/2020			0.0035 (J)	0.011					

Time Series

Constituent: Lithium (mg/L) Analysis Run 2/4/2021 1:55 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	0.00778				<0.005
7/14/2020		0.0522		0.00696	
7/30/2020			0.00791		
11/9/2020	0.006	0.043	0.0076		
11/10/2020				0.0063	0.0044 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					<0.0002	<0.0002	<0.0002		
4/25/2018	<0.0002							<0.0002	
6/13/2018	<0.0002								
6/14/2018				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
7/23/2018	<0.0002								
7/24/2018				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
9/1/2018	8.5E-05 (J)			<0.0002	<0.0002	<0.0002	<0.0002	9.3E-05 (J)	
10/1/2018				<0.0002	<0.0002	<0.0002	<0.0002		
10/2/2018	<0.0002							<0.0002	
11/1/2018	<0.0002								
11/2/2018				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
12/6/2018	<0.0002						<0.0002	<0.0002	
12/7/2018				<0.0002	<0.0002				
2/13/2019	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/16/2019		<0.0002	9.7E-05 (J)	<0.0002					
3/27/2019		<0.0002 (D)	<0.0002 (D)	<0.0002					
4/3/2019		<0.0002 (D)	<0.0002 (D)	<0.0002					
4/5/2019									<0.0002 (D)
4/15/2019				0.00015 (J)					<0.0002
4/16/2019		<0.0002	<0.0002						
5/2/2019				<0.0002					<0.0002
5/3/2019		<0.0002	<0.0002						
5/14/2019		7.1E-05 (J)	<0.0002	<0.0002					<0.0002
5/28/2019				<0.0002					
5/29/2019		<0.0002	<0.0002						<0.0002
6/12/2019		<0.0002	<0.0002	<0.0002					<0.0002
6/19/2019									<0.0002
6/25/2019									<0.0002
8/8/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/9/2019							<0.0002	<0.0002	<0.0002
11/4/2020				<0.0002					
11/5/2020					<0.0002	<0.0002			
11/9/2020		<0.0002					<0.0002	<0.0002	
11/20/2020	<0.0002		<0.0002						<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	<0.0002	<0.0002	<0.0002						
6/13/2018			<0.0002						
6/14/2018	<0.0002	<0.0002							
7/23/2018		<0.0002	<0.0002						
7/24/2018	<0.0002								
9/6/2018	9E-05 (J)	7.7E-05 (J)	0.00035						
10/2/2018	<0.0002	<0.0002	<0.0002						
11/1/2018		<0.0002	<0.0002						
11/2/2018	<0.0002								
12/6/2018	<0.0002	<0.0002	<0.0002						
2/13/2019	<0.0002	<0.0002	<0.0002						
8/8/2019			<0.0002						
8/9/2019	<0.0002	<0.0002							
7/11/2020									<0.0002
7/13/2020				<0.0002					
7/21/2020					<0.0002	<0.0002	<0.0002		
7/30/2020								<0.0002	
11/3/2020							<0.0002		
11/4/2020					<0.0002	<0.0002		<0.0002	
11/5/2020									<0.0002
11/9/2020		<0.0002							
11/10/2020	<0.0002								
11/20/2020			<0.0002	<0.0002					

Time Series

Constituent: Mercury (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	<0.0002				<0.0002
7/14/2020		<0.0002		<0.0002	
7/30/2020			<0.0002		
11/9/2020	<0.0002	<0.0002	<0.0002		
11/10/2020				<0.0002	<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					<0.015	0.073	0.011 (J)		
4/25/2018	0.11							0.056	
6/13/2018	0.09								
6/14/2018					<0.015	0.068	0.0083 (J)	0.048	
7/23/2018	0.11								
7/24/2018					<0.015	0.065	0.0075 (J)	0.078	
9/1/2018	0.11				<0.015	0.05	0.0082 (J)	0.081	
10/1/2018					<0.015	0.061	0.0088 (J)		
10/2/2018	0.1							0.07	
11/1/2018	0.11								
11/2/2018					<0.015	0.062	0.0083 (J)	0.1	
12/6/2018	0.1						0.0093 (J)	0.069	
12/7/2018					<0.015	0.062			
2/13/2019	0.085				<0.015	0.061	0.0093 (J)	0.1	
3/16/2019		<0.015	<0.015	<0.015					
3/27/2019		<0.015 (D)	<0.015 (D)	<0.015					
4/3/2019		<0.015 (D)	<0.015 (D)	<0.015					
4/5/2019									0.41 (D)
4/15/2019				<0.015					0.4
4/16/2019		<0.015	<0.015						
5/2/2019				<0.015					0.3
5/3/2019		<0.015	<0.015						
5/14/2019		<0.015	<0.015	<0.015					0.36
5/28/2019				<0.015					
5/29/2019		<0.015	<0.015						0.4
6/12/2019		<0.015	<0.015	<0.015					0.34
6/19/2019									0.41
6/25/2019									0.37
8/8/2019	0.11	<0.015	<0.015	<0.015	0.00079 (J)	0.073			
8/9/2019							0.012	0.15	0.48
8/29/2019		<0.015	<0.015						
8/30/2019	0.078			<0.015	<0.015	0.065	0.011	0.088	0.42
3/16/2020				<0.015	<0.015	0.072	0.01		
3/17/2020	0.081	<0.015	<0.015					0.079	0.47
11/4/2020				<0.015					
11/5/2020					<0.015	0.067			
11/9/2020		<0.015					0.0084 (J)	0.11	
11/20/2020	0.059		<0.015						0.42

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	0.00096 (J)	0.18	<0.015						
6/13/2018			<0.015						
6/14/2018	0.0062 (J)	0.17							
7/23/2018		0.17	<0.015						
7/24/2018	0.0063 (J)								
9/6/2018	<0.015	0.15	<0.015						
10/2/2018	<0.015	0.15	0.0009 (J)						
11/1/2018		0.16	<0.015						
11/2/2018	0.0066 (J)								
12/6/2018	0.0062 (J)	0.14	<0.015						
2/13/2019	0.0047 (J)	0.13	<0.015						
8/8/2019			<0.015						
8/9/2019	<0.015	0.12							
8/30/2019	<0.015	0.11	0.00093 (J)						
3/17/2020	<0.015	0.094	<0.015						
7/11/2020									0.00558 (J)
7/13/2020				0.00884 (J)					
7/21/2020					<0.015	<0.015	<0.015		
7/30/2020								<0.015	
11/3/2020							0.00082 (J)		
11/4/2020					<0.015	<0.015		0.0009 (J)	
11/5/2020									0.0038 (J)
11/9/2020		0.072							
11/10/2020	<0.015								
11/20/2020			<0.015	0.017					

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	<0.015				<0.015
7/14/2020		0.257		<0.015	
7/30/2020			<0.015		
11/9/2020	0.0022 (J)	0.35	0.0012 (J)		
11/10/2020				0.00081 (J)	0.00067 (J)

Time Series

Constituent: pH (SU) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					5.89	6.46	6.31		
4/25/2018	6.7							6.04	
6/13/2018	6.64								
6/14/2018				5.96	6.5	6.28	6.29		
7/23/2018	6.76								
7/24/2018				6.03	6.6	6.34	6.35		
9/1/2018	6.9			6.23	6.74	6.33	6.38		
10/1/2018				5.94	6.51	6.36			
10/2/2018	6.77							6.47	
11/1/2018	6.89								
11/2/2018				5.98	6.55	6.43	6.42		
12/6/2018	6.89					6.43	6.42		
12/7/2018				5.98	6.55				
2/13/2019	6.81				6.09	6.69	6.48	6.42	
3/16/2019		6.97	6.44	6.67					
3/27/2019		6.7	6.38	6.59					
4/3/2019		6.45	6.19	6.56					
4/4/2019	6.74							6.35	
4/5/2019					6.03	6.7	6.33		6.12
4/15/2019				6.68					6.14
4/16/2019		6.52	6.3						
5/2/2019				6.78					6.19
5/3/2019		6.37	6.33						
5/14/2019		6.57	6.64	6.7					6.12
5/28/2019				6.56					
5/29/2019		6.31	6.6						6.11
6/12/2019		6.41	6.31	6.69					6.09
6/19/2019									6.1
6/25/2019									6.18
8/8/2019	6.84	6.29	6.12	6.68	6.03	6.7			
8/9/2019							6.69	6.42	6.03
8/29/2019		6.2	6.24						
8/30/2019	7.09			6.72	6.1	6.75	6.68	6.47	5.92
3/16/2020				6.51	5.91	6.61	6.71		
3/17/2020	6.93	6.2	6.2					6.32	5.97
11/4/2020				6.45					
11/5/2020					5.92	6.58			
11/9/2020		6.21					6.37	6.37	
11/20/2020	6.94		6.31						6.09

Time Series

Constituent: pH (SU) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	6.31	6.69	6.19						
6/13/2018			6.18						
6/14/2018	6.25	6.66							
7/23/2018		6.7	6.19						
7/24/2018	6.34								
9/6/2018	6.29	6.66	6.13						
10/2/2018	6.28	6.63	6.13						
11/1/2018		6.75	6.25						
11/2/2018	6.4								
12/6/2018	6.4	6.75	6.25						
2/13/2019	6.37	6.7	6.24						
4/4/2019	6.33	6.72	6.17						
8/8/2019			6.23						
8/9/2019	6.34	6.74							
8/30/2019	6.31	6.68	6.1						
3/17/2020	6.57	6.69							
7/11/2020									7.84
7/13/2020				8.94					
7/21/2020					6.01	6.08	6.51		
7/30/2020								6.48	
11/3/2020							6.51		
11/4/2020					6.01	6.03		6.58	
11/5/2020									7.79
11/9/2020		6.74							
11/10/2020	6.37								
11/20/2020			6.23	8.86					

Time Series

Constituent: pH (SU) Analysis Run 2/4/2021 1:56 PM View: Descriptive
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	6.88				6.77
7/14/2020		6.89		7.07	
7/30/2020			6.67		
11/9/2020	6.86	6.89	6.71		
11/10/2020					7.06

Time Series

Constituent: Selenium (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					<0.005	0.0016	0.00055 (J)		
4/25/2018	0.00061 (J)							0.00071 (J)	
6/13/2018	0.00034 (J)								
6/14/2018					0.00061 (J)	0.0019	0.00068 (J)	0.0006 (J)	
7/23/2018	0.00035 (J)								
7/24/2018					0.00037 (J)	0.00087 (J)	0.00036 (J)	0.0006 (J)	
9/1/2018	<0.005				<0.005	0.001 (J)	<0.005	<0.005	
10/1/2018					<0.005	<0.005	<0.005		
10/2/2018	<0.005							<0.005	
11/1/2018	<0.005								
11/2/2018					0.00072 (J)	0.001 (J)	<0.005	<0.005	
12/6/2018	<0.005						<0.005	<0.005	
12/7/2018					<0.005	0.0011 (J)			
2/13/2019	<0.005				<0.005	<0.005	<0.005	<0.005	
3/16/2019		<0.005	<0.005	<0.005					
3/27/2019		<0.005 (D)	<0.005 (D)	<0.005					
4/3/2019		<0.005 (D)	<0.005 (D)	<0.005					
4/5/2019									<0.005 (D)
4/15/2019				<0.005					<0.005
4/16/2019		<0.005	<0.005						
5/2/2019				<0.005					<0.005
5/3/2019		<0.005	<0.005						
5/14/2019		<0.005	<0.005	<0.005					<0.005
5/28/2019				<0.005					
5/29/2019		<0.005	<0.005						<0.005
6/12/2019		<0.005	<0.005	<0.005					<0.005
6/19/2019									<0.005
6/25/2019									<0.005
8/8/2019	<0.005	<0.005	<0.005	<0.005	<0.005	0.0017 (J)			
8/9/2019							<0.005	<0.005	<0.005
8/29/2019		<0.005	<0.005						
8/30/2019	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/16/2020				<0.005	<0.005	<0.005	<0.005		
3/17/2020	<0.005	<0.005	<0.005					<0.005	<0.005
11/4/2020				<0.005					
11/5/2020					<0.005	<0.005			
11/9/2020		<0.005					<0.005	<0.005	
11/20/2020	<0.005		<0.005						<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	0.00046 (J)	0.00042 (J)	0.00081 (J)						
6/13/2018			0.00027 (J)						
6/14/2018	0.00039 (J)	0.00049 (J)							
7/23/2018		0.0006 (J)	0.00041 (J)						
7/24/2018	0.00036 (J)								
9/6/2018	<0.005	<0.005	<0.005						
10/2/2018	<0.005	<0.005	<0.005						
11/1/2018		<0.005	<0.005						
11/2/2018	<0.005								
12/6/2018	<0.005	<0.005	<0.005						
2/13/2019	<0.005	<0.005	<0.005						
8/8/2019			<0.005						
8/9/2019	<0.005	<0.005							
8/30/2019	<0.005	<0.005	<0.005						
3/17/2020	<0.005	<0.005	<0.005						
7/11/2020									<0.005
7/13/2020				<0.005					
7/21/2020					<0.005	<0.005	<0.005		
7/30/2020								<0.005	
11/3/2020							<0.005		
11/4/2020					<0.005	<0.005		<0.005	
11/5/2020									<0.005
11/9/2020		<0.005							
11/10/2020	<0.005								
11/20/2020			<0.005	<0.005					

Time Series

Constituent: Selenium (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	<0.005				<0.005
7/14/2020		<0.005		<0.005	
7/30/2020			<0.005		
11/9/2020	<0.005	<0.005	<0.005		
11/10/2020				<0.005	<0.005

Time Series

Constituent: Sulfate (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					<5	1200	340		
4/25/2018	290							920	
6/13/2018	310								
6/14/2018					7.2	1200	350	980	
7/23/2018	300								
7/24/2018					2.7 (J)	1100	310	950	
9/1/2018	290				1.5 (J)	1200	300	980	
10/1/2018					<5	1200	330		
10/2/2018	300							960	
11/1/2018	290								
11/2/2018					1.9 (J)	1000	310	860	
12/6/2018	290						300	990	
12/7/2018					<5	1100			
2/13/2019	230				1.5 (J)	1100	320	930	
3/16/2019		3.6	0.88 (J)	14					
3/27/2019		0.81 (JD)	1.3 (D)	19					
4/3/2019		1.1 (D)	1.9 (D)	4.6 (J)					
4/4/2019	240							1100	
4/5/2019					7	1200	330		800 (D)
4/15/2019				8.6					700
4/16/2019		0.68 (J)	2.5						
5/2/2019				6					810
5/3/2019		1.1	1.3						
5/14/2019		1.3	2.2	5.8					810
5/28/2019				9.4					
5/29/2019		2.1	1.2						830
6/12/2019		1.9	1.1	8.8					830
6/19/2019									810
6/25/2019									800
8/29/2019		2.3	1.1						
8/30/2019	160			13	8.4	1100	330	940	800
3/16/2020				23	16	1100	330		
3/17/2020	110	3.7	3.2					910	590
11/4/2020				10					
11/5/2020					4.4 (J)	1000			
11/9/2020		0.51 (J)					320	1000	
11/20/2020	50		0.79 (J)						790

Time Series

Constituent: Sulfate (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	65	670	270						
6/13/2018			300						
6/14/2018	81	650							
7/23/2018		610	280						
7/24/2018	52								
9/6/2018	53	690	270						
10/2/2018	34	650	280						
11/1/2018		610	270						
11/2/2018	35								
12/6/2018	65	660	300						
2/13/2019	74	600	280						
4/4/2019	61	640	330						
8/30/2019	83	620	280						
3/17/2020	430	680	290						
7/11/2020									10.6
7/13/2020				5.31					
7/21/2020					802	713	52.9		
7/30/2020								33.4	
11/3/2020							550		
11/4/2020					1700	670		440	
11/5/2020									13
11/9/2020		590							
11/10/2020	64								
11/20/2020			270	2.9					

Time Series

Constituent: Sulfate (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	8.05				10.5
7/14/2020		554		33.5	
7/30/2020			12.7		
11/9/2020	5.8	560	13		
11/10/2020				20	1.8

Time Series

Constituent: Thallium (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					<0.001	0.00012 (J)	<0.001		
4/25/2018	<0.001							<0.001	
6/13/2018	<0.001								
6/14/2018				<0.001	<0.001	<0.001	<0.001	<0.001	
7/23/2018	<0.001								
7/24/2018				<0.001	<0.001	<0.001	<0.001	<0.001	
9/1/2018	<0.001				<0.001	<0.001	<0.001	<0.001	
10/1/2018					<0.001	<0.001	<0.001		
10/2/2018	<0.001							<0.001	
11/1/2018	<0.001								
11/2/2018				<0.001	<0.001	<0.001	<0.001	<0.001	
12/6/2018	<0.001						<0.001	<0.001	
12/7/2018				<0.001	<0.001				
2/13/2019	<0.001				<0.001	<0.001	<0.001	<0.001	
3/16/2019		<0.001	<0.001	<0.001					
3/27/2019		<0.001 (D)	<0.001 (D)	<0.001					
4/3/2019		<0.001 (D)	<0.001 (D)	<0.001					
4/5/2019									<0.001 (D)
4/15/2019				<0.001					<0.001
4/16/2019		<0.001	<0.001						
5/2/2019				<0.001					<0.001
5/3/2019		<0.001	<0.001						
5/14/2019		<0.001	<0.001	<0.001					<0.001
5/28/2019				<0.001					
5/29/2019		<0.001	<0.001						<0.001
6/12/2019		<0.001	<0.001	<0.001					<0.001
6/19/2019									<0.001
6/25/2019									<0.001
8/8/2019	0.00015 (J)	<0.001	<0.001	<0.001	0.00084 (J)	<0.001			
8/9/2019							<0.001	<0.001	<0.001
8/29/2019		0.00015 (J)	0.00017 (J)						
8/30/2019	0.00058 (J)			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/16/2020				<0.001	<0.001	<0.001	<0.001		
3/17/2020	<0.001	<0.001	<0.001					<0.001	<0.001
11/4/2020				0.00019 (J)					
11/5/2020					<0.001	<0.001			
11/9/2020		<0.001					<0.001	<0.001	
11/20/2020	<0.001		<0.001						<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	<0.001	<0.001	<0.001						
6/13/2018			<0.001						
6/14/2018	<0.001	<0.001							
7/23/2018		<0.001	<0.001						
7/24/2018	<0.001								
9/6/2018	<0.001	<0.001	<0.001						
10/2/2018	<0.001	<0.001	<0.001						
11/1/2018		<0.001	<0.001						
11/2/2018	<0.001								
12/6/2018	<0.001	<0.001	<0.001						
2/13/2019	<0.001	<0.001	<0.001						
8/8/2019			<0.001						
8/9/2019	<0.001	0.00025 (J)							
8/30/2019	<0.001	0.0013	0.0016						
3/17/2020	<0.001	<0.001	<0.001						
7/11/2020									<0.001
7/13/2020				<0.001					
7/21/2020					<0.001	<0.001	<0.001		
7/30/2020								<0.001	
11/3/2020							<0.001		
11/4/2020					<0.001	<0.001		<0.001	
11/5/2020									<0.001
11/9/2020		<0.001							
11/10/2020	<0.001								
11/20/2020			<0.001	<0.001					

Time Series

Constituent: Thallium (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	<0.001				<0.001
7/14/2020		<0.001		<0.001	
7/30/2020			<0.001		
11/9/2020	<0.001	<0.001	<0.001		
11/10/2020				<0.001	<0.001

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-11 (bg)	APMW-12 (bg)	APMW-1R	APMW-2	APMW-3	APMW-4	APMW-5	APMW-6R
4/24/2018					4800	18000	7700		
4/25/2018	2500							16000	
6/13/2018	2900								
6/14/2018				5700	13000	7200		14000	
7/23/2018	3100								
7/24/2018				6000	18000	7000		15000	
9/1/2018	2700			6300	20000	7800		16000	
10/1/2018				6500	20000	8400			
10/2/2018	2900							17000	
11/1/2018	2700								
11/2/2018				3800	19000	7600		15000	
12/6/2018	2600						7400	14000	
12/7/2018				5300	13000				
2/13/2019	2800			6200	16000	7700		16000	
3/16/2019		120	150	3300					
3/27/2019		63 (D)	110 (D)	2900					
4/3/2019		100 (D)	150 (D)	3600					
4/4/2019	2500							18000	
4/5/2019					5000	18000	7000		7800 (D)
4/15/2019				3300					6600
4/16/2019		110	150						
5/2/2019				3300					7400
5/3/2019		91	130						
5/14/2019		120	150	3600					8300
5/28/2019				3500					
5/29/2019		140	180						8600
6/12/2019		100	130						6800
6/19/2019									7100
6/25/2019									8500
8/29/2019		73	110						
8/30/2019	2200			3500	4400	18000	5800	16000	6600
3/16/2020				4500	4400	16000	6100		
3/17/2020	2700	95	120					15000	7200
11/4/2020				5000					
11/5/2020					4100	19000			
11/9/2020		68					5400	14000	
11/20/2020	2100		160						7400

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-7	APMW-8	APMW-9	APMW-10D	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)	APMW-2D
4/25/2018	7500	6400	5800						
6/13/2018			5800						
6/14/2018	7000	6000							
7/23/2018		7200	5800						
7/24/2018	7200								
9/6/2018	7000	7800	6300						
10/2/2018	7400	8200	6500						
11/1/2018		7300	5000						
11/2/2018	6900								
12/6/2018	6900	8300	6000						
2/13/2019	8200	8900	6700						
4/4/2019	8100	7700	4500						
8/30/2019	6900	6300	4900						
3/17/2020	6900	6400	5400						
7/11/2020									170
7/13/2020				152					
7/21/2020					3760	6350	5400		
7/30/2020								5020	
11/3/2020							9200		
11/4/2020					5400	6500		8500	
11/5/2020									190
11/9/2020		7100							
11/10/2020	7100								
11/20/2020			6000	180					

Time Series

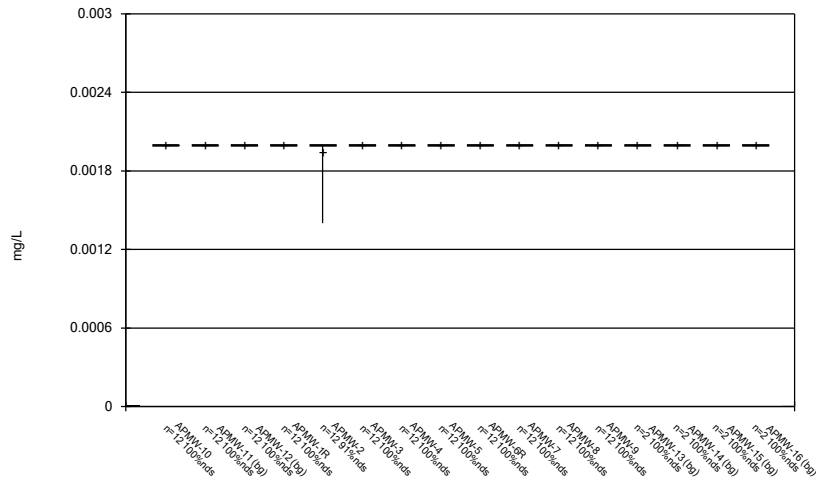
Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/4/2021 1:56 PM View: Descriptive

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4D	APMW-5D	APMW-6D	APMW-8D
7/13/2020	152				148
7/14/2020		14800		184	
7/30/2020			133 (D)		
11/9/2020	170	16000	130		
11/10/2020				150	150

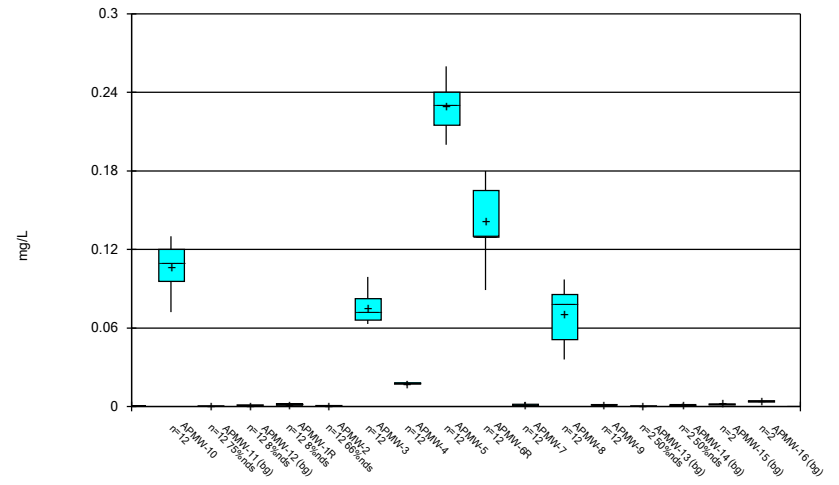
Box Plots

Box & Whiskers Plot



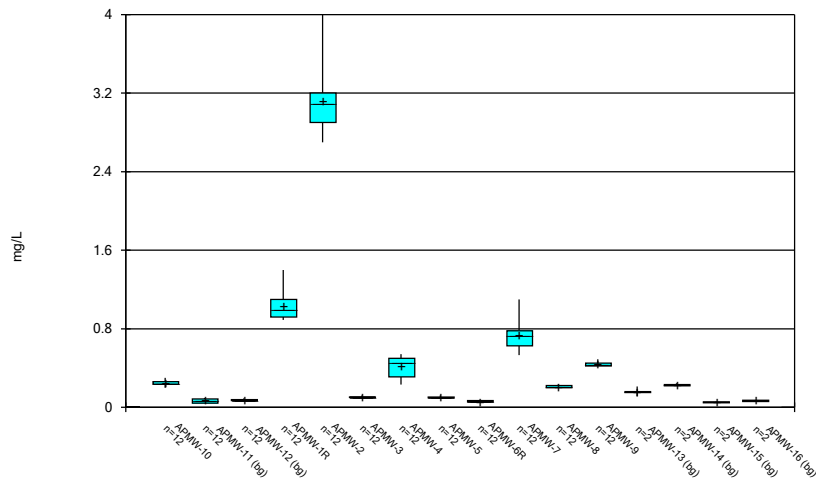
Constituent: Antimony Analysis Run 2/4/2021 4:57 PM View: Box Plots
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



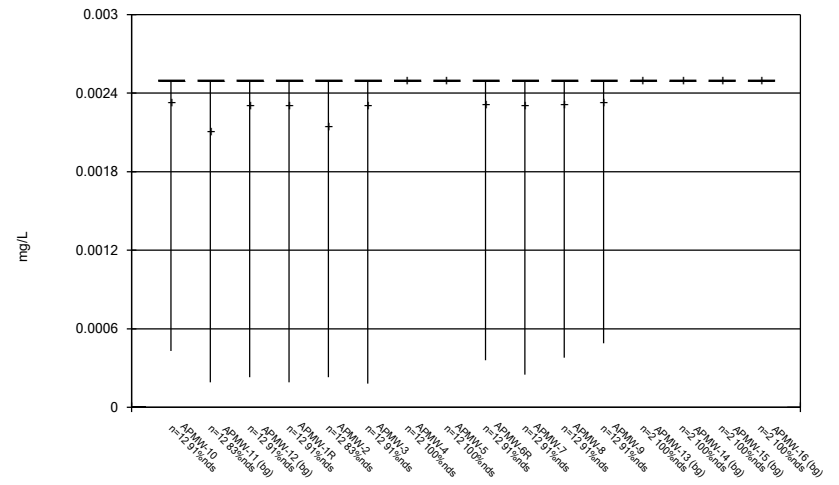
Constituent: Arsenic Analysis Run 2/4/2021 4:57 PM View: Box Plots
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



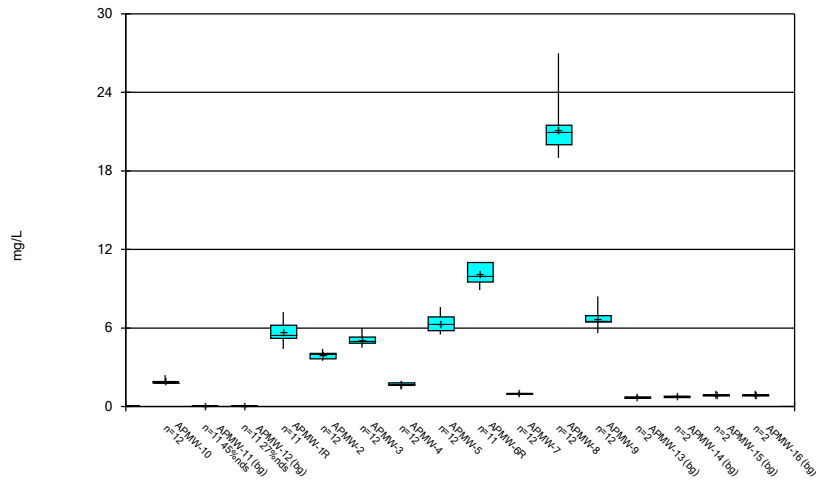
Constituent: Barium Analysis Run 2/4/2021 4:57 PM View: Box Plots
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



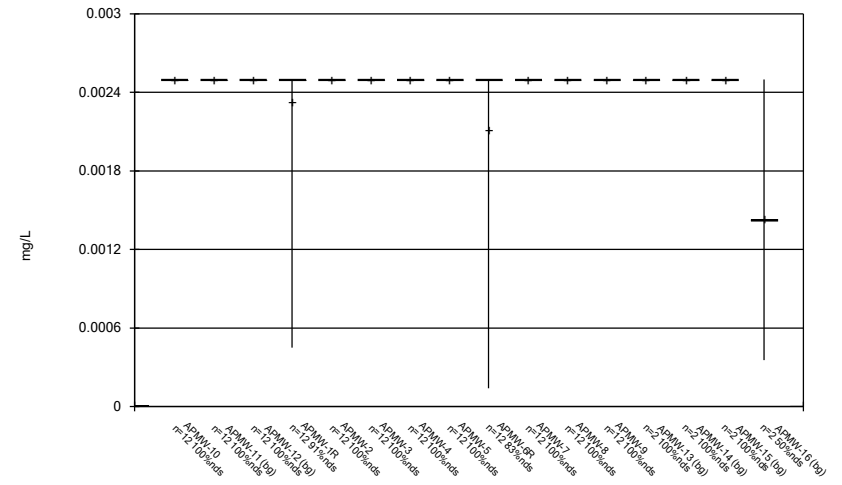
Constituent: Beryllium Analysis Run 2/4/2021 4:57 PM View: Box Plots
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



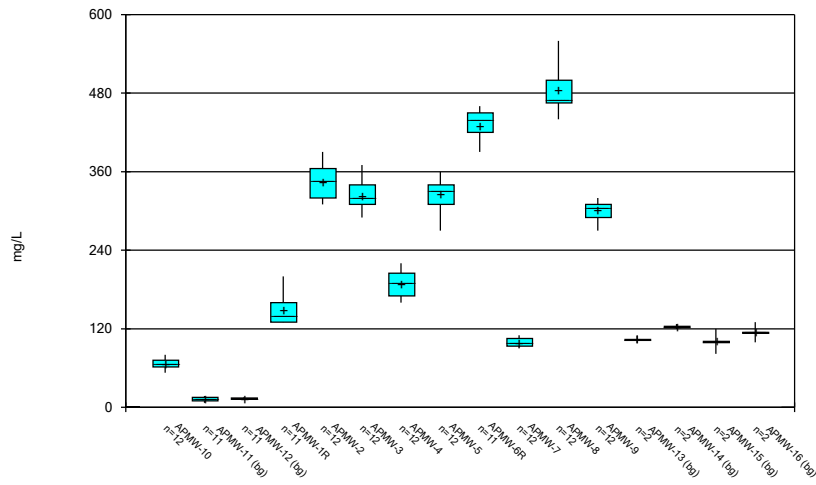
Constituent: Boron Analysis Run 2/4/2021 4:57 PM View: Box Plots
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



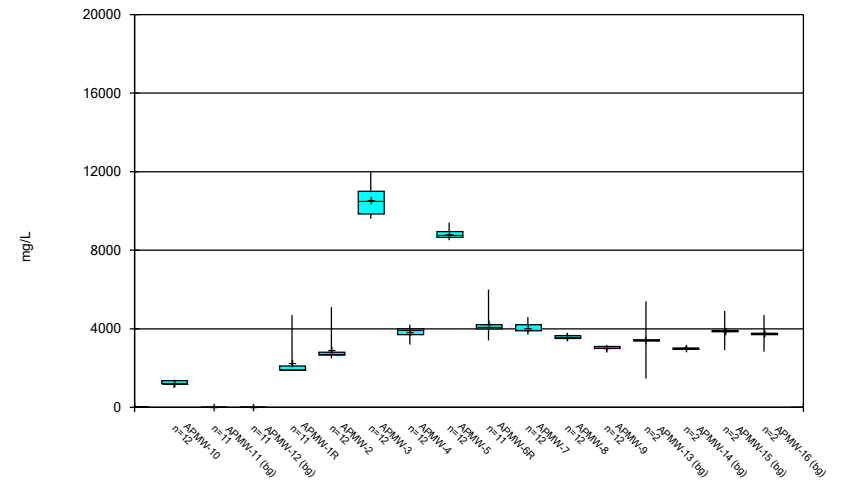
Constituent: Cadmium Analysis Run 2/4/2021 4:57 PM View: Box Plots
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



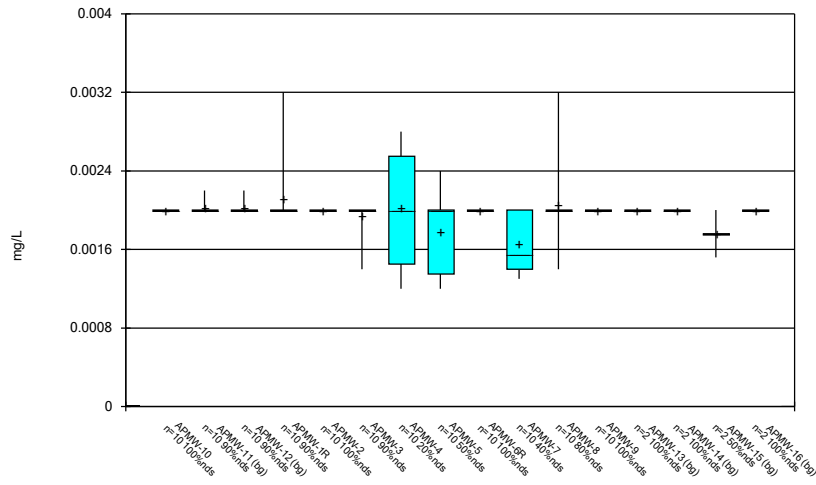
Constituent: Calcium Analysis Run 2/4/2021 4:57 PM View: Box Plots
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



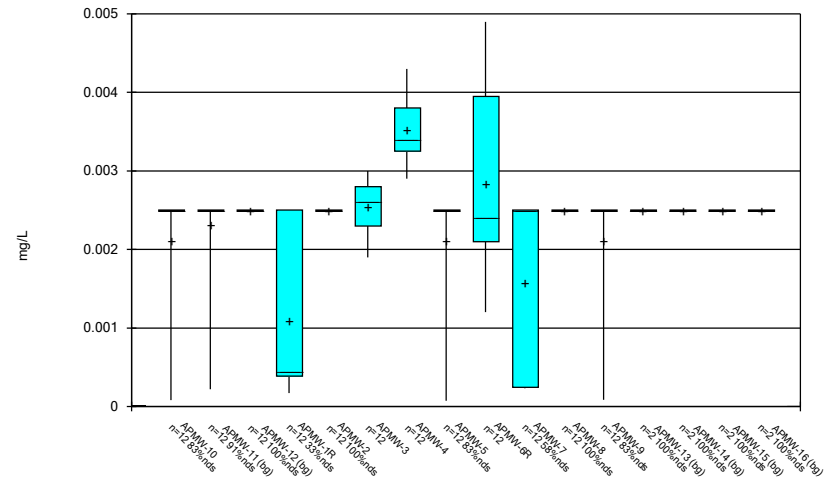
Constituent: Chloride Analysis Run 2/4/2021 4:57 PM View: Box Plots
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



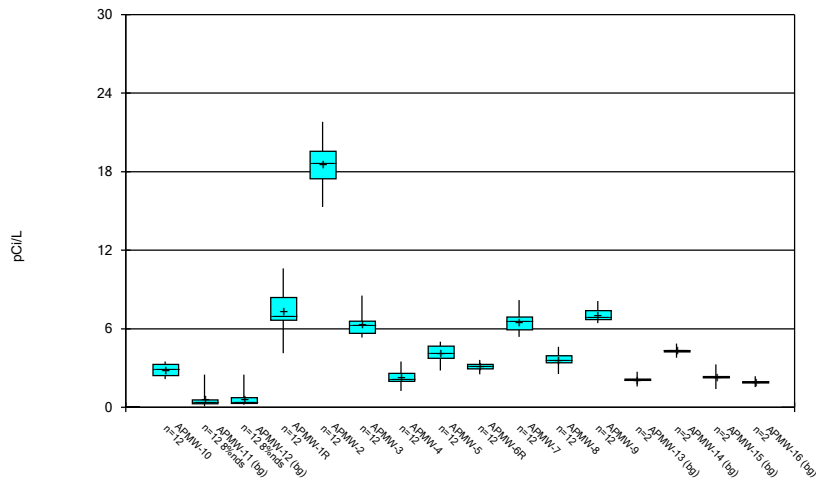
Constituent: Chromium Analysis Run 2/4/2021 4:57 PM View: Box Plots
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



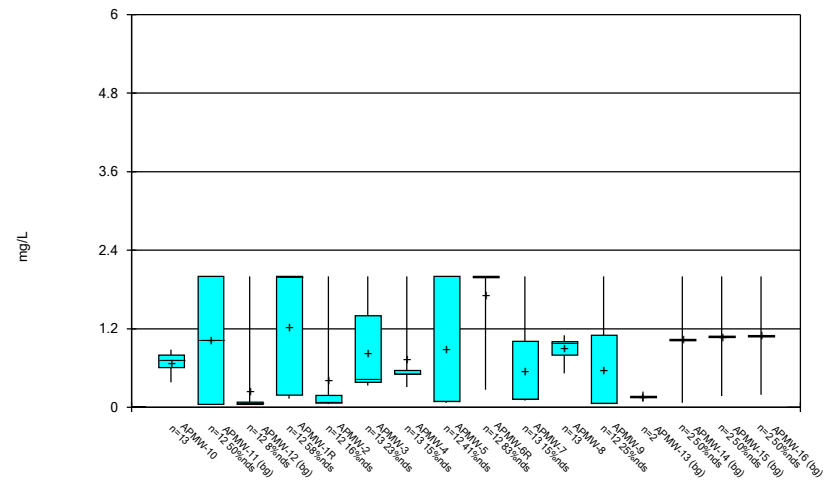
Constituent: Cobalt Analysis Run 2/4/2021 4:57 PM View: Box Plots
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



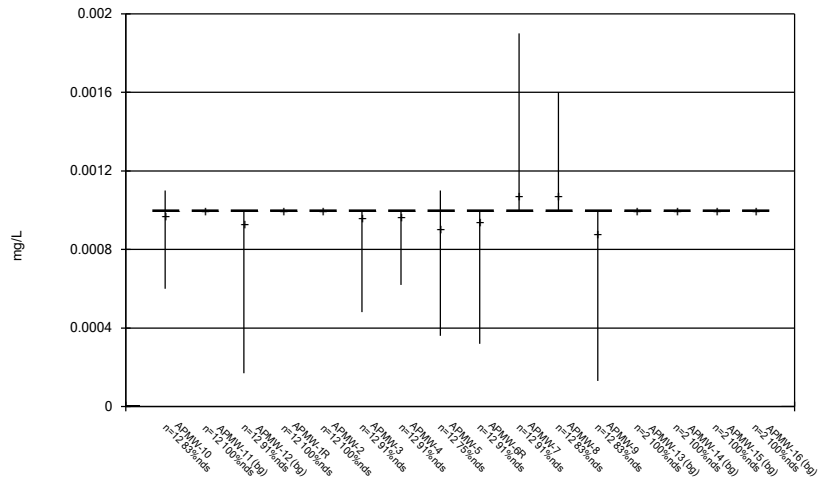
Constituent: Combined Radium 226 + 228 Analysis Run 2/4/2021 4:57 PM View: Box Plots
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



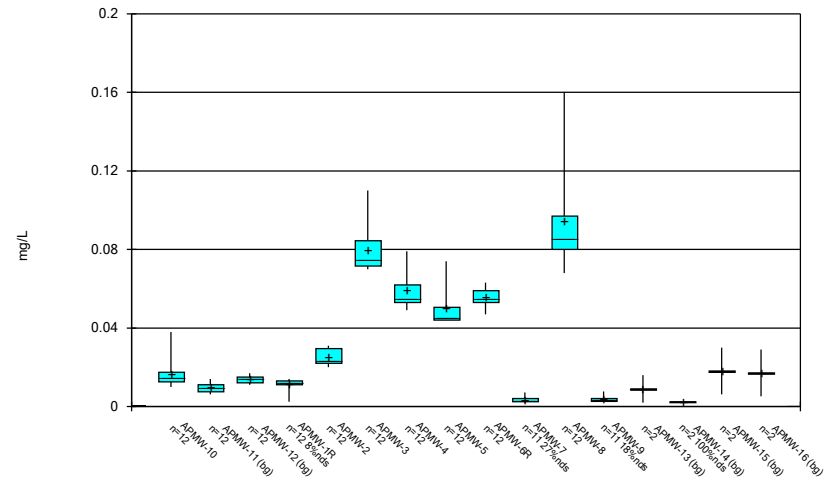
Constituent: Fluoride Analysis Run 2/4/2021 4:57 PM View: Box Plots
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



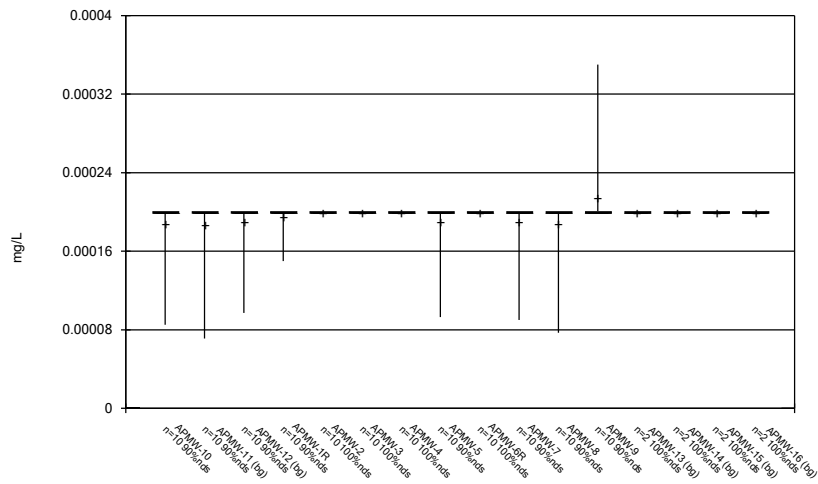
Constituent: Lead Analysis Run 2/4/2021 4:57 PM View: Box Plots
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



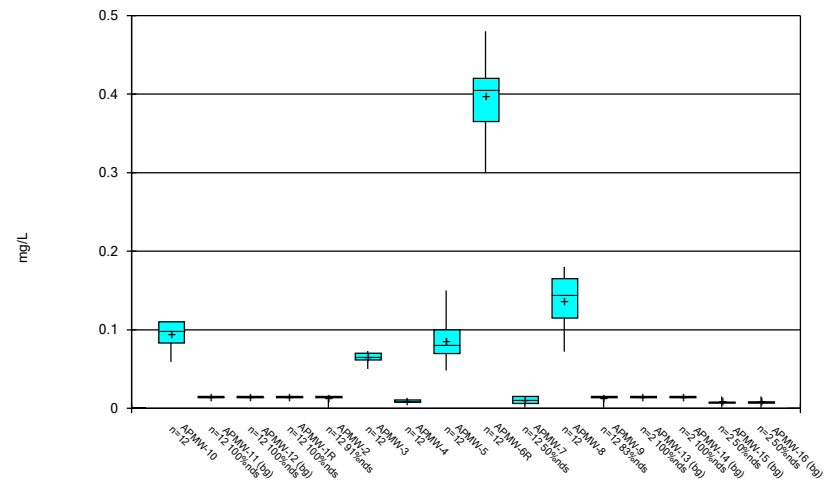
Constituent: Lithium Analysis Run 2/4/2021 4:57 PM View: Box Plots
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



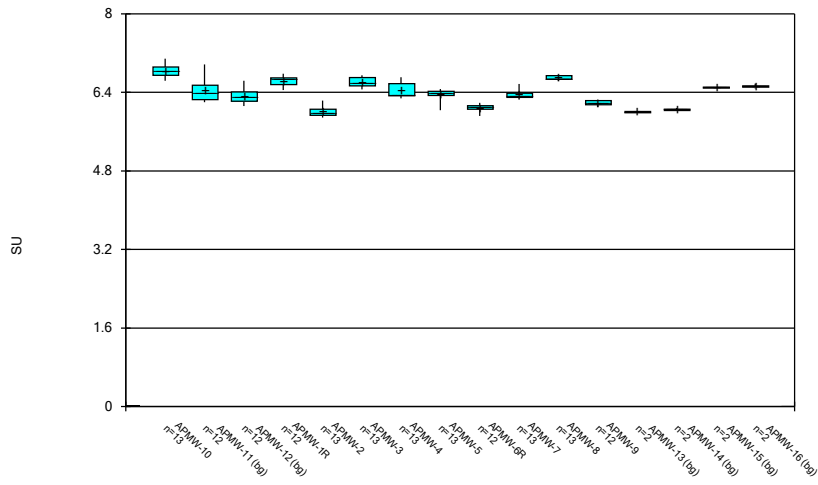
Constituent: Mercury Analysis Run 2/4/2021 4:57 PM View: Box Plots
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



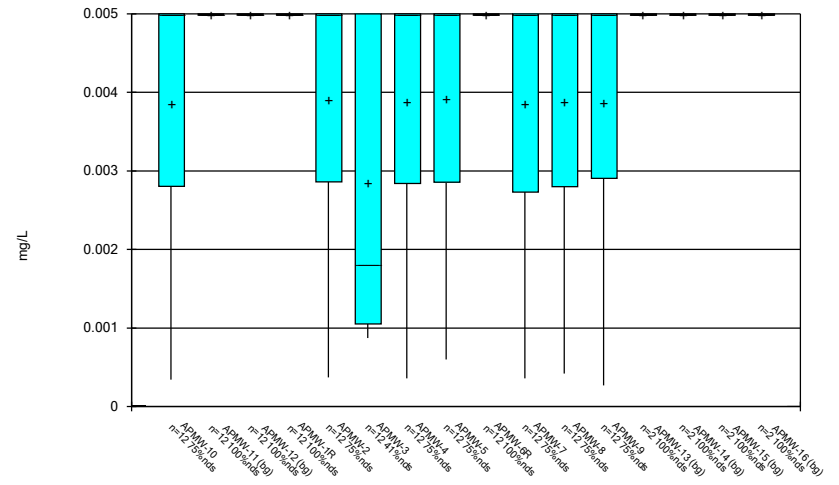
Constituent: Molybdenum Analysis Run 2/4/2021 4:57 PM View: Box Plots
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



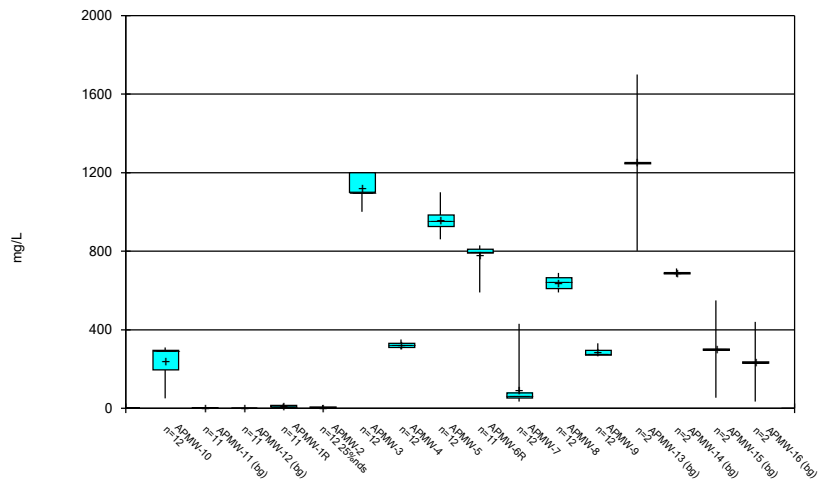
Constituent: pH Analysis Run 2/4/2021 4:57 PM View: Box Plots
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



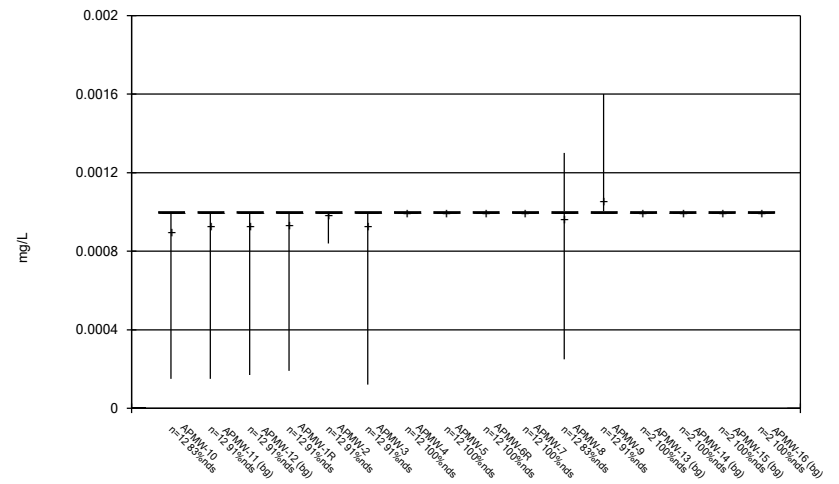
Constituent: Selenium Analysis Run 2/4/2021 4:57 PM View: Box Plots
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



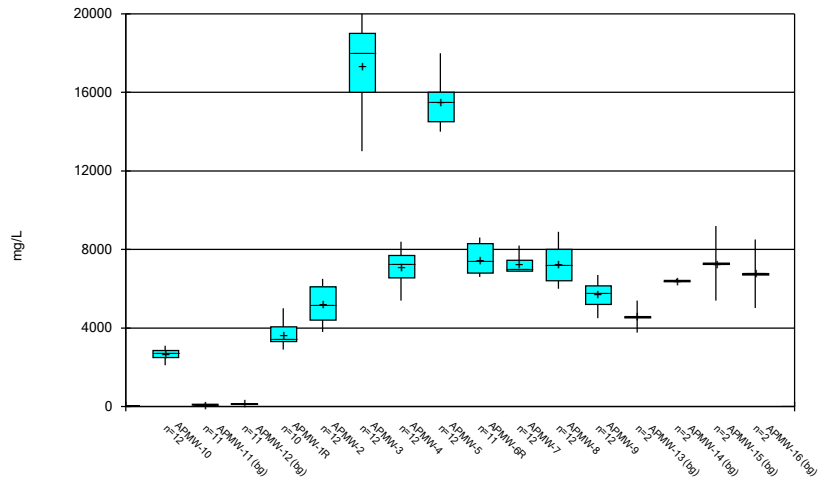
Constituent: Sulfate Analysis Run 2/4/2021 4:57 PM View: Box Plots
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



Constituent: Thallium Analysis Run 2/4/2021 4:57 PM View: Box Plots
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

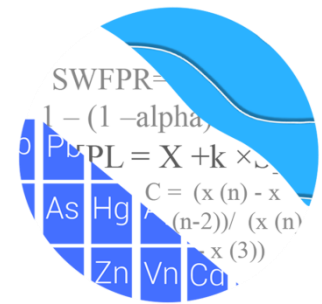
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 2/4/2021 4:57 PM View: Box Plots
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

2nd
Semi-Annual
Monitoring Event

GROUNDWATER STATS CONSULTING



May 5, 2021

Southern Company Services
Attn: Ms. Lauren Parker
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Watson Ash Pond
Statistical Analysis – March 2021

Dear Ms. Parker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of data for the March 2021 sample event for Mississippi Power Company's Plant Watson Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) and follows the USEPA Unified Guidance (2009).

Sampling began for the CCR program in April 2018 for wells listed below except newer background wells APMW-11 and APMW-12, and downgradient well APMW-1R which is a replacement well for well APMW-1. Historical data for APMW-1R was aliased with its corresponding well APMW-1. Sampling began at wells APMW-11, APMW-12, and APMW-1R in March 2019. Additionally, sampling began in April 2019 for downgradient well APMW-6R which is a replacement well for APMW-6. Historical data from APMW-6 were aliased with its corresponding well APMW-6R. At least 8 background samples have been collected at each of the groundwater monitoring wells.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** APMW-11, APMW-12, APMW-13, APMW-14, APMW-15, and APMW-16
- **Downgradient wells:** APMW-1R, APMW-2, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-7, APMW-8, APMW-9, APMW-10

- **Delineation wells:** APMW-2D, APMW-3D, APMW-4D, APMW-5D, APMW-6D, APMW-8D, and APMW-10D

New upgradient wells APMW-13, APMW-14, APMW-15, and APMW-16 were first sampled in July 2020 and currently have a maximum of 3 sample events. As requested by Southern Company Services, upgradient wells with 2 or more samples will be incorporated into statistical analyses.

Additionally, sampling at the following delineation wells listed below began in July 2020:

- **Delineation wells:** APMW-2D, APMW-3D, APMW-4D, APMW-5D, APMW-6D, APMW-8D, and APMW-10D

While data for these wells are plotted on the time series graphs, no formal statistical analysis is included in this report due to the limited data. When a minimum of 4 samples is available, these wells will be evaluated using confidence intervals for the Appendix IV constituents.

The CCR program consists of the following constituents:

- **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

Time series plots and box plots are included for all constituents at upgradient and downgradient wells. The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

Data at all wells were evaluated in during the background screening conducted in April 2019 for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Interwell prediction limits were selected as the most appropriate statistical method to evaluate the Appendix III parameters at this site. Power curves were submitted at that time and demonstrated that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected

statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

During this analysis, all upgradient well data were reviewed for any new outliers in existing and new wells using the time series graphs. No additional values were flagged as outliers in existing upgradient wells, and none were flagged in the new upgradient wells due to the limited data at this time. It was noted that concentrations for boron, calcium, chloride, sulfate, and TDS in the new upgradient wells are similar across the new wells, but significantly higher than those observed in the existing upgradient. Further studies beyond the scope of this analysis would be needed to fully understand the groundwater population upgradient of the ash pond, and the appropriateness of pooling all upgradient well data for construction of prediction limits. The assumption, however, is that pooling all upgradient well data results in statistical limits that are representative of the entire background population and will serve to balance the false positive risk (identifying a problem in a downgradient well when none exists) with the false negative risk (not identifying impacts when they exist in a downgradient well).

Evaluation of Appendix III Parameters – March 2021

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed for all Appendix III constituents--boron, calcium, chloride, fluoride, pH, sulfate and TDS--using all available upgradient well data to develop background limits. The most recent observation at each downgradient well is compared to its respective background limit during each subsequent semi-annual sampling event.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary.

During the background screening conducted in April 2019, Tukey's box plot method was used to screen for outliers and the findings were submitted at that time. Background (upgradient) well data were re-assessed for potential outliers using time series plots during this analysis. Although no new values were flagged for Appendix III parameters, the highest sulfate value in upgradient well APMW-13 will be re-evaluated during the next event and marked as an outlier if concentrations are not similar to that measurement. When any values are flagged in the database as outliers, they are plotted in a

disconnected and lighter symbol on the time series graph and the accompanying data pages display the flagged value in a lighter font. A summary of flagged values also follows this letter. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. The confidence levels associated with parametric prediction limits are based on an overall false positive rate of 5%. When data cannot be normalized or the majority of data are nondetects, a nonparametric test is utilized where the highest background value is used to establish the upper prediction limit (and lowest value in the case of pH). The associated confidence level is dependent on the number of available background, future comparisons and resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (USEPA Unified Guidance, 2009), data are analyzed using either parametric or non-parametric prediction limits.

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

When interwell prediction limits were constructed based on the interwell methods discussed above, several statistically significant increases were identified. Summary tables of the prediction limit findings follow this letter.

The Sen's Slope/Mann Kendall trend test was performed on wells/constituents with prediction limit exceedances. Existing upgradient wells were included in this analysis for a general comparison of how the groundwater behaves upgradient of the facility relative to downgradient. The trend test requires a minimum of 5 samples; therefore, wells APMW-13, APMW-14, APMW-15, and APMW-16 were not included. A summary of these findings follows this letter. When the entire record of data was evaluated, the following statistically significant trends were identified:

Increasing:

- Boron: APMW-12 (upgradient) and APMW-1R
- Calcium: APMW-1R
- pH: APMW-10

Decreasing:

- Calcium: APMW-4
- pH: APMW-11 (upgradient)

Evaluation of Appendix IV Parameters – March 2021

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Ground Water Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% non-detects or trace values below the reporting limits do not require analysis and a list of 100% non-detect well/constituent pairs follows this report. Data from background (upgradient) wells for Appendix IV parameters are reassessed for outliers during each analysis. No new outliers were flagged and a summary of flagged outliers follows this report.

Parametric upper tolerance limits were used to calculate background limits, when data followed a normal distribution, from pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage to determine the background limits. When data did not follow a normal or transformed-normal distribution, nonparametric upper tolerance limits were constructed and the confidence and coverage levels are dependent upon the number of background samples. The tolerance limit for combined radium 226 + 228 used nonparametric methods in order to generate a statistical limit that was conservative from a regulatory perspective. These limits were compared to the Maximum Contaminant Levels (MCLs) and CCR-Rule Specified Levels in the GWPS table following this letter to determine the highest limit for use as the Groundwater Protection Standard (GWPS) in the Confidence Interval comparisons.

Confidence intervals were then constructed on downgradient wells for each of the Appendix IV parameters using the highest limit of either the MCL, CCR-Rule Specified level, or background as discussed above. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. Several exceedances were noted. A summary of the significant results follows this letter. Note that Southern Company Services, reportedly, submitted an Alternate Source Demonstration (ASD) for the barium and combined radium 226 + 228 confidence interval exceedances.

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

For Groundwater Stats Consulting,



Andrew T. Collins
Project Manager



Kristina L. Rayner
Groundwater Statistician

100% Non-Detects

Analysis Run 5/4/2021 6:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Antimony (mg/L)

APMW-10, APMW-1R, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-7, APMW-8, APMW-9

Beryllium (mg/L)

APMW-4, APMW-5

Cadmium (mg/L)

APMW-2, APMW-3, APMW-4, APMW-5, APMW-7, APMW-8, APMW-9

Chromium (mg/L)

APMW-10, APMW-2, APMW-6R, APMW-9

Cobalt (mg/L)

APMW-2, APMW-8

Lead (mg/L)

APMW-1R, APMW-2

Mercury (mg/L)

APMW-2, APMW-3, APMW-4, APMW-6R

Molybdenum (mg/L)

APMW-1R

Selenium (mg/L)

APMW-1R, APMW-6R

Thallium (mg/L)

APMW-4, APMW-5, APMW-6R, APMW-7

Appendix III Interwell Prediction Limits - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/3/2021, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	3/8/2021	1.8	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	3/8/2021	7.3	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	3/8/2021	3.5	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	3/9/2021	5.5	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	3/9/2021	6.1	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	3/9/2021	12	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	3/9/2021	21	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	3/8/2021	6.5	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	3/8/2021	210	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	3/8/2021	350	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	3/9/2021	350	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	3/9/2021	160	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	3/9/2021	340	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	3/9/2021	460	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	3/9/2021	480	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	3/8/2021	300	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	3/9/2021	10000	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	3/9/2021	8700	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.802	5.88	3/8/2021	7.61	Yes	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.802	5.88	3/8/2021	7	Yes	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	3/9/2021	22000	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	3/9/2021	20000	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/3/2021, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	3/8/2021	1.8	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	3/8/2021	7.3	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	3/8/2021	3.5	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	3/9/2021	5.5	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	3/9/2021	1.2	No	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	3/9/2021	6.1	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	3/9/2021	12	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	3/9/2021	0.91	No	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	3/9/2021	21	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	3/8/2021	6.5	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-10	130	n/a	3/8/2021	47	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	3/8/2021	210	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	3/8/2021	350	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	3/9/2021	350	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	3/9/2021	160	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	3/9/2021	340	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	3/9/2021	460	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-7	130	n/a	3/9/2021	120	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	3/9/2021	480	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	3/8/2021	300	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-10	5400	n/a	3/8/2021	920	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-1R	5400	n/a	3/8/2021	2500	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-2	5400	n/a	3/8/2021	2500	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	3/9/2021	10000	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-4	5400	n/a	3/9/2021	3100	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	3/9/2021	8700	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-6R	5400	n/a	3/9/2021	4000	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-7	5400	n/a	3/9/2021	4600	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-8	5400	n/a	3/9/2021	3600	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-9	5400	n/a	3/8/2021	3100	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	5	n/a	3/8/2021	0.66	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-1R	5	n/a	3/8/2021	5ND	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-2	5	n/a	3/8/2021	5ND	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-3	5	n/a	3/9/2021	0.87J	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-4	5	n/a	3/9/2021	0.55J	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-5	5	n/a	3/9/2021	5ND	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	5	n/a	3/9/2021	5ND	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-7	5	n/a	3/9/2021	0.26J	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	5	n/a	3/9/2021	1.1J	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-9	5	n/a	3/8/2021	5ND	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.802	5.88	3/8/2021	7.61	Yes	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-1R	6.802	5.88	3/8/2021	6.4	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.802	5.88	3/8/2021	5.97	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-3	6.802	5.88	3/9/2021	6.48	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-4	6.802	5.88	3/9/2021	6.27	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-5	6.802	5.88	3/9/2021	6.32	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-6R	6.802	5.88	3/9/2021	6.13	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-7	6.802	5.88	3/9/2021	6.39	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-8	6.802	5.88	3/9/2021	6.74	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.802	5.88	3/8/2021	7	Yes	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/3/2021, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	APMW-10	1700	n/a	3/8/2021	24	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-1R	1700	n/a	3/8/2021	12	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-2	1700	n/a	3/8/2021	5.7	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	1700	n/a	3/9/2021	1100	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-4	1700	n/a	3/9/2021	320	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	1700	n/a	3/9/2021	910	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-6R	1700	n/a	3/9/2021	830	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-7	1700	n/a	3/9/2021	100	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-8	1700	n/a	3/9/2021	630	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-9	1700	n/a	3/8/2021	280	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-10	9200	n/a	3/8/2021	2100	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-1R	9200	n/a	3/8/2021	5200	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-2	9200	n/a	3/8/2021	4300	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	3/9/2021	22000	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-4	9200	n/a	3/9/2021	5500	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	3/9/2021	20000	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-6R	9200	n/a	3/9/2021	8800	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-7	9200	n/a	3/9/2021	7800	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-8	9200	n/a	3/9/2021	8100	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-9	9200	n/a	3/8/2021	6300	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/3/2021, 2:41 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-12 (bg)	0.03244	39	38	Yes	12	25	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	1.569	43	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	42.4	40	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-17.76	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.1237	54	48	Yes	14	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.4374	-54	-43	Yes	13	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/3/2021, 2:41 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-10	0	9	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-11 (bg)	0.001682	15	38	No	12	50	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-12 (bg)	0.03244	39	38	Yes	12	25	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	1.569	43	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-2	-0.2056	-40	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-3	0	2	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-5	-0.2671	-21	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-6R	1.272	30	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-8	-0.6113	-20	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-9	0	-6	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-5.208	-36	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-12 (bg)	-0.5436	-23	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	42.4	40	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-2	0	-1	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-3	0	0	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-17.76	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-5	-5.018	-15	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-6R	27.58	26	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-8	-23.25	-32	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-9	-5.852	-21	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-11 (bg)	0	2	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-12 (bg)	0	7	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-373	-32	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-5	60.68	16	43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.1237	54	48	Yes	14	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.4374	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
pH (SU)	APMW-12 (bg)	-0.1724	-17	-38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	APMW-9	0.0339	12	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-11 (bg)	-8.793	-16	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-12 (bg)	0	-2	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-3	415.6	12	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-5	0	10	43	No	13	0	n/a	n/a	0.01	NP

PLANT WATSON AP CCR GWPS TABLE				
Constituent Name	MCL	CCR Rule-Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.24	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0044	0.1
Cobalt, Total (mg/L)		0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		5.04	5.04
Fluoride, Total (mg/L)	4		2	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.027	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residuals

*GWPS = Groundwater Protection Standard

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

Upper Tolerance Limits Summary Table

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/3/2021, 2:50 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.002	n/a	n/a	38	n/a	n/a	100	n/a	n/a	0.1424	NP Inter(NDs)
Arsenic (mg/L)	0.00496	n/a	n/a	38	n/a	n/a	39.47	n/a	n/a	0.1424	NP Inter(normality)
Barium (mg/L)	0.243	n/a	n/a	38	n/a	n/a	0	n/a	n/a	0.1424	NP Inter(normality)
Beryllium (mg/L)	0.0025	n/a	n/a	38	n/a	n/a	92.11	n/a	n/a	0.1424	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	38	n/a	n/a	97.37	n/a	n/a	0.1424	NP Inter(NDs)
Chromium (mg/L)	0.0044	n/a	n/a	34	n/a	n/a	88.24	n/a	n/a	0.1748	NP Inter(NDs)
Cobalt (mg/L)	0.0025	n/a	n/a	38	n/a	n/a	94.74	n/a	n/a	0.1424	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	5.04	n/a	n/a	38	n/a	n/a	5.263	n/a	n/a	0.1424	NP Inter
Fluoride (mg/L)	2	n/a	n/a	38	n/a	n/a	28.95	n/a	n/a	0.1424	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	38	n/a	n/a	97.37	n/a	n/a	0.1424	NP Inter(NDs)
Lithium (mg/L)	0.02693	n/a	n/a	38	0.102	0.029	7.895	None	sqrt(x)	0.05	Inter
Mercury (mg/L)	0.0002	n/a	n/a	34	n/a	n/a	94.12	n/a	n/a	0.1748	NP Inter(NDs)
Molybdenum (mg/L)	0.015	n/a	n/a	38	n/a	n/a	94.74	n/a	n/a	0.1424	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	38	n/a	n/a	100	n/a	n/a	0.1424	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	38	n/a	n/a	94.74	n/a	n/a	0.1424	NP Inter(NDs)

Appendix IV Confidence Intervals - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/4/2021, 6:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	APMW-10	0.1202	0.08424	0.01	Yes	13	0.1022	0.02419	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-3	0.08388	0.06227	0.01	Yes	13	0.07308	0.01453	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01833	0.0169	0.01	Yes	13	0.01762	0.0009608	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2417	0.2137	0.01	Yes	13	0.2277	0.01878	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1717	0.1236	0.01	Yes	13	0.1476	0.03234	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08493	0.05199	0.01	Yes	13	0.06846	0.02215	0	None	No	0.01	Param.
Barium (mg/L)	APMW-2	3.361	2.895	2	Yes	13	3.131	0.3225	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	9.701	6.022	5.04	Yes	13	7.862	2.474	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.26	17.45	5.04	Yes	13	18.85	1.892	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	7.043	5.073	5.04	Yes	13	6.058	1.325	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.136	5.466	5.04	Yes	13	6.232	1.303	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	7.739	6.667	5.04	Yes	13	7.218	0.7706	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	APMW-3	0.091	0.071	0.04	Yes	13	0.07908	0.01146	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.077	0.051	0.04	Yes	13	0.05831	0.009543	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.069	0.044	0.04	Yes	13	0.05023	0.009816	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05904	0.0525	0.04	Yes	13	0.05577	0.0044	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.13	0.073	0.04	Yes	13	0.09292	0.02529	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-6R	0.4445	0.3647	0.1	Yes	13	0.4046	0.05364	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-8	0.1594	0.1045	0.1	Yes	13	0.1319	0.03689	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/4/2021, 6:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	APMW-2	0.002	0.0014	0.006	No	13	0.001954	0.0001664	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-10	0.1202	0.08424	0.01	Yes	13	0.1022	0.02419	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-1R	0.002126	0.0009726	0.01	No	13	0.001549	0.0007755	7.692	None	No	0.01	Param.
Arsenic (mg/L)	APMW-2	0.00094	0.00035	0.01	No	13	0.0005969	0.000234	69.23	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-3	0.08388	0.06227	0.01	Yes	13	0.07308	0.01453	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01833	0.0169	0.01	Yes	13	0.01762	0.0009608	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2417	0.2137	0.01	Yes	13	0.2277	0.01878	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1717	0.1236	0.01	Yes	13	0.1476	0.03234	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-7	0.002039	0.0006735	0.01	No	13	0.001356	0.0009181	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08493	0.05199	0.01	Yes	13	0.06846	0.02215	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-9	0.001441	0.001113	0.01	No	13	0.001277	0.0002204	0	None	No	0.01	Param.
Barium (mg/L)	APMW-10	0.2761	0.2301	2	No	13	0.2531	0.03093	0	None	No	0.01	Param.
Barium (mg/L)	APMW-1R	1.165	0.9322	2	No	13	1.051	0.1617	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	APMW-2	3.361	2.895	2	Yes	13	3.131	0.3225	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	APMW-3	0.11	0.097	2	No	13	0.1028	0.006479	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-4	0.492	0.3157	2	No	13	0.4038	0.1185	0	None	No	0.01	Param.
Barium (mg/L)	APMW-5	0.1073	0.09454	2	No	13	0.1009	0.008578	0	None	No	0.01	Param.
Barium (mg/L)	APMW-6R	0.06647	0.05461	2	No	13	0.06054	0.007975	0	None	No	0.01	Param.
Barium (mg/L)	APMW-7	0.8423	0.6008	2	No	13	0.7215	0.1624	0	None	No	0.01	Param.
Barium (mg/L)	APMW-8	0.2213	0.2048	2	No	13	0.2131	0.01109	0	None	No	0.01	Param.
Barium (mg/L)	APMW-9	0.4609	0.4253	2	No	13	0.4431	0.02394	0	None	No	0.01	Param.
Beryllium (mg/L)	APMW-10	0.0025	0.00076	0.004	No	13	0.002207	0.0007186	84.62	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-1R	0.0025	0.00019	0.004	No	13	0.002322	0.0006407	92.31	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-2	0.0025	0.00023	0.004	No	13	0.002002	0.0009521	76.92	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-3	0.0025	0.00018	0.004	No	13	0.002322	0.0006435	92.31	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-6R	0.0025	0.00036	0.004	No	13	0.002335	0.0005935	92.31	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-7	0.0025	0.00025	0.004	No	13	0.002327	0.000624	92.31	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-8	0.0025	0.00038	0.004	No	13	0.002337	0.000588	92.31	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-9	0.0025	0.00049	0.004	No	13	0.002172	0.0008034	84.62	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-10	0.0025	0.00025	0.005	No	13	0.002327	0.000624	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-1R	0.0025	0.00045	0.005	No	13	0.002342	0.0005686	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-6R	0.0025	0.00026	0.005	No	13	0.002146	0.0008641	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-1R	0.002	0.002	0.1	No	11	0.002109	0.0003618	90.91	None	No	0.006	NP (NDs)
Chromium (mg/L)	APMW-3	0.002	0.002	0.1	No	11	0.001945	0.0001809	90.91	None	No	0.006	NP (NDs)
Chromium (mg/L)	APMW-4	0.002353	0.001425	0.1	No	11	0.002018	0.0005076	27.27	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	APMW-5	0.002	0.0013	0.1	No	11	0.0018	0.0003821	54.55	Kaplan-Meier	No	0.006	NP (NDs)
Chromium (mg/L)	APMW-7	0.002	0.0014	0.1	No	11	0.001709	0.000336	36.36	None	No	0.006	NP (normality)
Chromium (mg/L)	APMW-8	0.002	0.002	0.1	No	11	0.002055	0.0004204	81.82	None	No	0.006	NP (NDs)
Cobalt (mg/L)	APMW-10	0.0025	0.00012	0.006	No	13	0.001964	0.00102	76.92	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-1R	0.0025	0.00037	0.006	No	13	0.001191	0.001082	38.46	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-3	0.002893	0.002322	0.006	No	13	0.002608	0.000384	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-4	0.00386	0.003263	0.006	No	13	0.003562	0.0004011	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-5	0.0025	0.000079	0.006	No	13	0.002127	0.0009099	84.62	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-6R	0.00364	0.001853	0.006	No	13	0.002746	0.001202	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-7	0.0025	0.00024	0.006	No	13	0.001472	0.001156	53.85	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-9	0.0025	0.000089	0.006	No	13	0.002129	0.0009064	84.62	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	APMW-10	3.197	2.505	5.04	No	13	2.851	0.4655	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	9.701	6.022	5.04	Yes	13	7.862	2.474	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.26	17.45	5.04	Yes	13	18.85	1.892	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	7.043	5.073	5.04	Yes	13	6.058	1.325	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-4	2.695	1.842	5.04	No	13	2.268	0.5736	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-5	4.609	3.677	5.04	No	13	4.143	0.6268	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-6R	3.366	2.71	5.04	No	13	2.906	0.855	0	None	x^3	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.136	5.466	5.04	Yes	13	6.232	1.303	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-8	3.988	3.259	5.04	No	13	3.624	0.4901	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	7.739	6.667	5.04	Yes	13	7.218	0.7706	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	APMW-10	0.7799	0.5901	4	No	14	0.685	0.134	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/4/2021, 6:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	APMW-1R	5	0.14	4	No	13	3.142	2.446	61.54	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-2	5	0.06	4	No	13	1.228	2.151	23.08	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-3	5	0.37	4	No	14	1.481	1.914	21.43	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-4	0.58	0.48	4	No	14	1.151	1.632	14.29	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-5	5	0.09	4	No	13	2.357	2.547	46.15	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-6R	5	0.32	4	No	13	4.276	1.767	84.62	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-7	1.6	0.11	4	No	14	0.9621	1.754	14.29	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-8	1.042	0.8322	4	No	14	0.9179	0.1846	0	None	x^3	0.01	Param.
Fluoride (mg/L)	APMW-9	5	0.06	4	No	13	1.602	2.358	30.77	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-10	0.0011	0.0006	0.015	No	13	0.0009123	0.0002542	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-3	0.001	0.00048	0.015	No	13	0.00096	0.0001442	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-4	0.001	0.00062	0.015	No	13	0.0009708	0.0001054	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-5	0.0011	0.00041	0.015	No	13	0.0009131	0.0002362	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-6R	0.001	0.00032	0.015	No	13	0.0009477	0.0001886	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-7	0.0019	0.001	0.015	No	13	0.001069	0.0002496	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-8	0.0013	0.001	0.015	No	13	0.001069	0.0001797	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-9	0.001	0.00039	0.015	No	13	0.0008862	0.0002829	84.62	None	No	0.01	NP (NDs)
Lithium (mg/L)	APMW-10	0.01971	0.01154	0.04	No	13	0.01615	0.007347	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	APMW-1R	0.01327	0.0107	0.04	No	13	0.01158	0.002971	7.692	None	x^3	0.01	Param.
Lithium (mg/L)	APMW-2	0.02861	0.02262	0.04	No	13	0.02562	0.004032	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.091	0.071	0.04	Yes	13	0.07908	0.01146	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.077	0.051	0.04	Yes	13	0.05831	0.009543	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.069	0.044	0.04	Yes	13	0.05023	0.009816	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05904	0.0525	0.04	Yes	13	0.05577	0.0044	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-7	0.004285	0.00222	0.04	No	12	0.003317	0.001478	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	APMW-8	0.13	0.073	0.04	Yes	13	0.09292	0.02529	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-9	0.004952	0.002958	0.04	No	12	0.0039	0.001483	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	APMW-10	0.0002	0.0002	0.002	No	11	0.0001895	0.00003467	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	APMW-1R	0.0002	0.0002	0.002	No	11	0.0001955	0.00001508	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	APMW-5	0.0002	0.0002	0.002	No	11	0.0001903	0.00003226	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	APMW-7	0.0002	0.0002	0.002	No	11	0.00019	0.00003317	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	APMW-8	0.0002	0.0002	0.002	No	11	0.0001888	0.00003709	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	APMW-9	0.0002	0.0002	0.002	No	11	0.0002136	0.00004523	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	APMW-10	0.11	0.059	0.1	No	13	0.09215	0.01953	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-2	0.015	0.00079	0.1	No	13	0.01391	0.003941	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-3	0.07093	0.06061	0.1	No	13	0.06577	0.006942	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-4	0.01029	0.007863	0.1	No	13	0.009077	0.001633	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-5	0.1042	0.06517	0.1	No	13	0.08469	0.02625	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-6R	0.4445	0.3647	0.1	Yes	13	0.4046	0.05364	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-7	0.015	0.0047	0.1	No	13	0.01046	0.005293	53.85	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-8	0.1594	0.1045	0.1	Yes	13	0.1319	0.03689	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-9	0.015	0.00093	0.1	No	13	0.01283	0.005289	84.62	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-10	0.005	0.00035	0.05	No	13	0.003946	0.002004	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-2	0.005	0.00061	0.05	No	13	0.003977	0.001946	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-3	0.005	0.001	0.05	No	13	0.003013	0.001937	46.15	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-4	0.005	0.00055	0.05	No	13	0.003968	0.001961	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-5	0.005	0.00071	0.05	No	13	0.003993	0.001914	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-7	0.005	0.00039	0.05	No	13	0.003939	0.002016	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-8	0.005	0.00049	0.05	No	13	0.003962	0.001972	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-9	0.005	0.00041	0.05	No	13	0.003961	0.001978	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-10	0.001	0.00058	0.002	No	13	0.0008777	0.0002593	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-1R	0.001	0.00019	0.002	No	13	0.0009377	0.0002247	92.31	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-2	0.001	0.00084	0.002	No	13	0.0009877	0.00004438	92.31	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-3	0.001	0.00012	0.002	No	13	0.0009323	0.0002441	92.31	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-8	0.0013	0.00025	0.002	No	13	0.0009015	0.0003182	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-9	0.0016	0.00024	0.002	No	13	0.0009877	0.0002792	84.62	None	No	0.01	NP (NDs)

Prediction Limits

Appendix III Interwell Prediction Limits - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/3/2021, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	3/8/2021	1.8	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	3/8/2021	7.3	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	3/8/2021	3.5	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	3/9/2021	5.5	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	3/9/2021	6.1	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	3/9/2021	12	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	3/9/2021	21	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	3/8/2021	6.5	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	3/8/2021	210	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	3/8/2021	350	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	3/9/2021	350	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	3/9/2021	160	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	3/9/2021	340	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	3/9/2021	460	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	3/9/2021	480	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	3/8/2021	300	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	3/9/2021	10000	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	3/9/2021	8700	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.802	5.88	3/8/2021	7.61	Yes	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.802	5.88	3/8/2021	7	Yes	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	3/9/2021	22000	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	3/9/2021	20000	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/3/2021, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	3/8/2021	1.8	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	3/8/2021	7.3	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	3/8/2021	3.5	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	3/9/2021	5.5	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	3/9/2021	1.2	No	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	3/9/2021	6.1	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	3/9/2021	12	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	3/9/2021	0.91	No	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	3/9/2021	21	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	3/8/2021	6.5	Yes	36	n/a	n/a	25	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-10	130	n/a	3/8/2021	47	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	3/8/2021	210	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	3/8/2021	350	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	3/9/2021	350	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	3/9/2021	160	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	3/9/2021	340	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	3/9/2021	460	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-7	130	n/a	3/9/2021	120	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	3/9/2021	480	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	3/8/2021	300	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-10	5400	n/a	3/8/2021	920	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-1R	5400	n/a	3/8/2021	2500	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-2	5400	n/a	3/8/2021	2500	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	3/9/2021	10000	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-4	5400	n/a	3/9/2021	3100	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	3/9/2021	8700	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-6R	5400	n/a	3/9/2021	4000	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-7	5400	n/a	3/9/2021	4600	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-8	5400	n/a	3/9/2021	3600	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-9	5400	n/a	3/8/2021	3100	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	5	n/a	3/8/2021	0.66	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-1R	5	n/a	3/8/2021	5ND	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-2	5	n/a	3/8/2021	5ND	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-3	5	n/a	3/9/2021	0.87J	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-4	5	n/a	3/9/2021	0.55J	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-5	5	n/a	3/9/2021	5ND	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	5	n/a	3/9/2021	5ND	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-7	5	n/a	3/9/2021	0.26J	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	5	n/a	3/9/2021	1.1J	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-9	5	n/a	3/8/2021	5ND	No	38	n/a	n/a	28.95	n/a	n/a	0.001231	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.802	5.88	3/8/2021	7.61	Yes	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-1R	6.802	5.88	3/8/2021	6.4	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.802	5.88	3/8/2021	5.97	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-3	6.802	5.88	3/9/2021	6.48	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-4	6.802	5.88	3/9/2021	6.27	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-5	6.802	5.88	3/9/2021	6.32	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-6R	6.802	5.88	3/9/2021	6.13	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-7	6.802	5.88	3/9/2021	6.39	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-8	6.802	5.88	3/9/2021	6.74	No	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.802	5.88	3/8/2021	7	Yes	37	6.341	0.2214	0	None	No	0.0003761	Param Inter 1 of 2

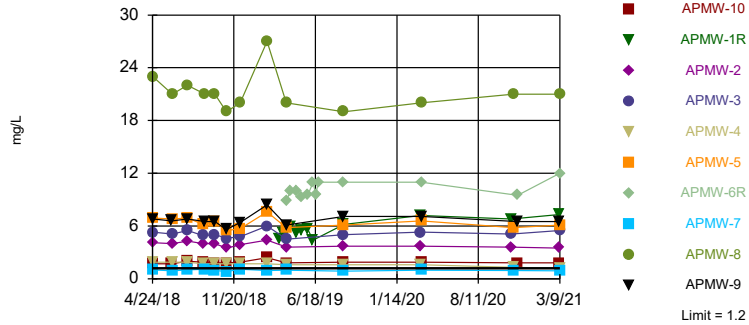
Appendix III Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/3/2021, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	APMW-10	1700	n/a	3/8/2021	24	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-1R	1700	n/a	3/8/2021	12	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-2	1700	n/a	3/8/2021	5.7	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	1700	n/a	3/9/2021	1100	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-4	1700	n/a	3/9/2021	320	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	1700	n/a	3/9/2021	910	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-6R	1700	n/a	3/9/2021	830	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-7	1700	n/a	3/9/2021	100	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-8	1700	n/a	3/9/2021	630	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-9	1700	n/a	3/8/2021	280	No	36	n/a	n/a	2.778	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-10	9200	n/a	3/8/2021	2100	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-1R	9200	n/a	3/8/2021	5200	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-2	9200	n/a	3/8/2021	4300	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	3/9/2021	22000	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-4	9200	n/a	3/9/2021	5500	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	3/9/2021	20000	Yes	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-6R	9200	n/a	3/9/2021	8800	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-7	9200	n/a	3/9/2021	7800	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-8	9200	n/a	3/9/2021	8100	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-9	9200	n/a	3/8/2021	6300	No	36	n/a	n/a	0	n/a	n/a	0.001354	NP Inter (normality) 1 of 2

Exceeds Limit: APMW-10, APMW-1R, APMW-2, APMW-3, APMW-5, APMW-6R, APMW-8, APMW-9

Prediction Limit
Interwell Non-parametric

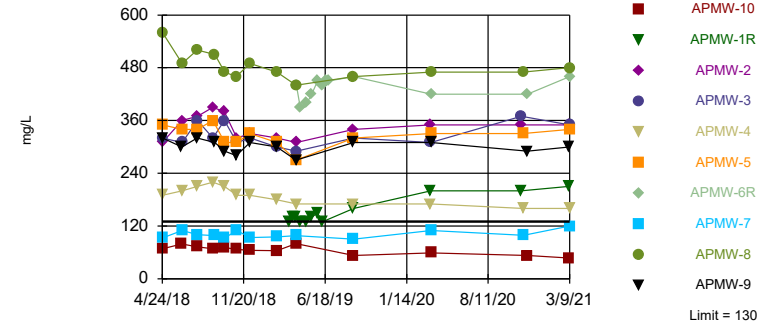


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. 25% NDs. Annual per-constituent alpha = 0.02674. Individual comparison alpha = 0.001354 (1 of 2). Comparing 10 points to limit.

Constituent: Boron Analysis Run 5/3/2021 2:35 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-1R, APMW-2, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, APMW-9

Prediction Limit
Interwell Non-parametric

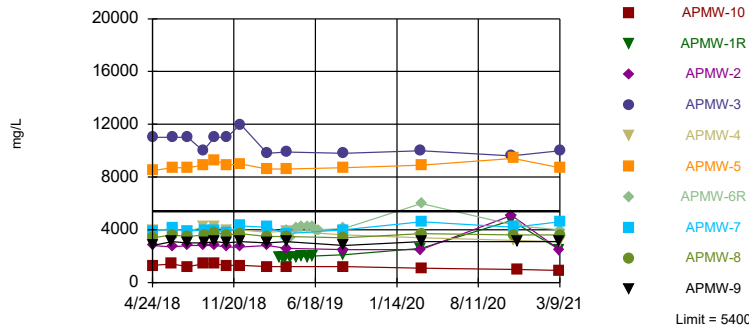


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. Annual per-constituent alpha = 0.02674. Individual comparison alpha = 0.001354 (1 of 2). Comparing 10 points to limit.

Constituent: Calcium Analysis Run 5/3/2021 2:35 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-3, APMW-5

Prediction Limit
Interwell Non-parametric



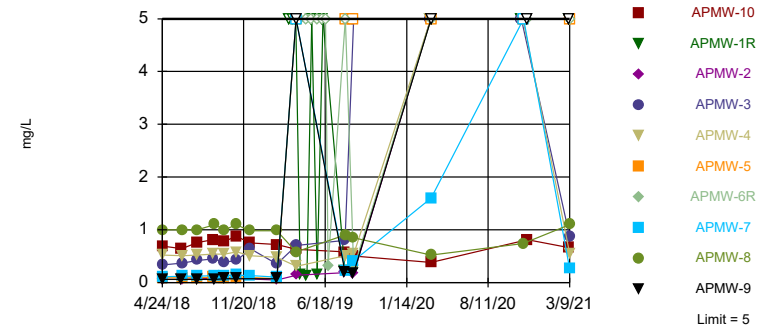
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. Annual per-constituent alpha = 0.02674. Individual comparison alpha = 0.001354 (1 of 2). Comparing 10 points to limit.

Constituent: Chloride Analysis Run 5/3/2021 2:35 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric

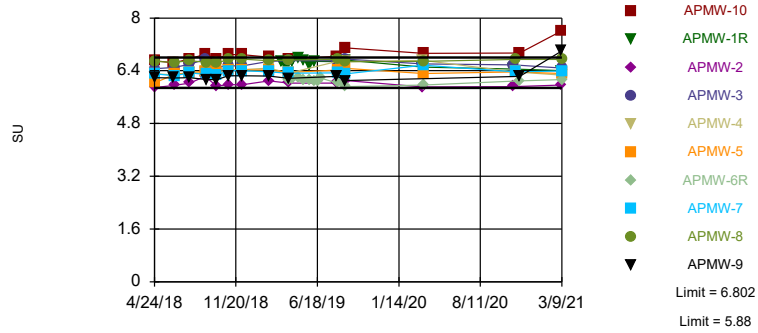


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 38 background values. 28.95% NDs. Annual per-constituent alpha = 0.02434. Individual comparison alpha = 0.001231 (1 of 2). Comparing 10 points to limit.

Constituent: Fluoride Analysis Run 5/3/2021 2:35 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limits: APMW-10, APMW-9

Prediction Limit
Interwell Parametric

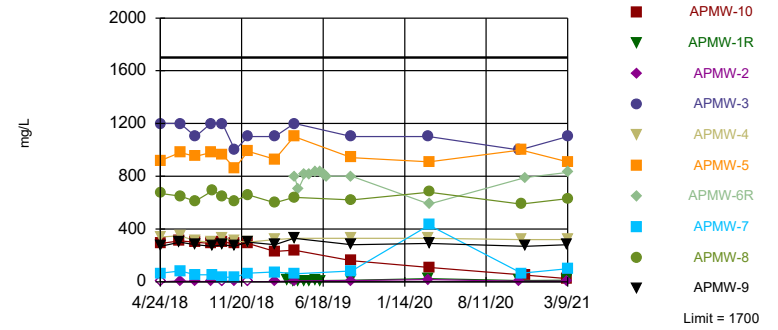


Background Data Summary: Mean=6.341, Std. Dev.=0.2214, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9711, critical = 0.914. Kappa = 2.081 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003761. Comparing 10 points to limit.

Constituent: pH Analysis Run 5/3/2021 2:35 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Within Limit

Prediction Limit
Interwell Non-parametric

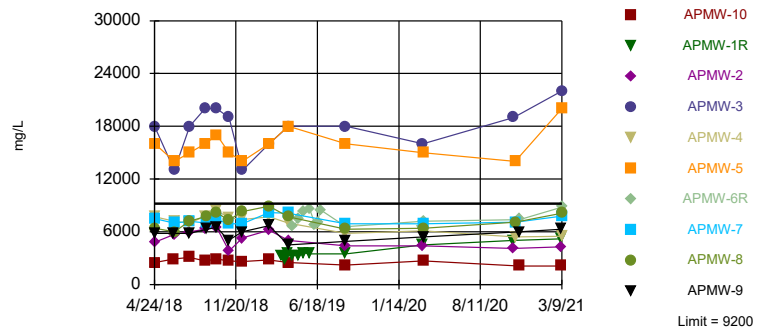


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. 2.778% NDs. Annual per-constituent alpha = 0.02674. Individual comparison alpha = 0.001354 (1 of 2). Comparing 10 points to limit.

Constituent: Sulfate Analysis Run 5/3/2021 2:35 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-3, APMW-5

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. Annual per-constituent alpha = 0.02674. Individual comparison alpha = 0.001354 (1 of 2). Comparing 10 points to limit.

Constituent: Total Dissolved Solids Analysis Run 5/3/2021 2:35 PM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/3/2021 2:37 PM View: Appendix III
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-1R	APMW-11 (bg)	APMW-6R	APMW-13 (bg)	APMW-15 (bg)	APMW-14 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	4.5	0.028 (J)					
3/27/2019	5.2	0.027 (JD)					
4/3/2019	5.3	0.089 (D)					
4/4/2019							
4/5/2019			8.9 (D)				
4/15/2019	5.9		10				
4/16/2019		<0.08					
5/2/2019	5.3		10				
5/3/2019		<0.08					
5/14/2019	5.5	<0.08	9.3				
5/28/2019	5.7						
5/29/2019		0.034 (J)	9.5				
6/12/2019	4.4	0.05 (J)	11				
6/19/2019			9.5				
6/25/2019			11				
8/29/2019		<0.08					
8/30/2019	6.2		11				
3/16/2020	7.2						
3/17/2020		0.057 (J)	11				
7/21/2020				0.58	0.609	0.718	
7/30/2020							0.62
11/3/2020				1.2			
11/4/2020	6.8			0.88		0.85	1.2
11/5/2020							
11/9/2020		<0.08					
11/10/2020							
11/20/2020			9.5				
3/8/2021	7.3			0.63	0.59	0.71	0.6
3/9/2021			12				
3/10/2021		<0.08					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/3/2021 2:37 PM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-1R	APMW-11 (bg)	APMW-6R	APMW-13 (bg)	APMW-15 (bg)	APMW-14 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	130	17					
3/27/2019	140	16 (D)					
4/3/2019	140	15 (D)					
4/4/2019							
4/5/2019			440 (D)				
4/15/2019	130		390				
4/16/2019		13					
5/2/2019	130		400				
5/3/2019		12					
5/14/2019	140	14	420				
5/28/2019	150						
5/29/2019		7	450				
6/12/2019	130	13	440				
6/19/2019			450				
6/25/2019			450				
8/29/2019		9.4					
8/30/2019	160		460				
3/16/2020	200						
3/17/2020		9.8	420				
7/21/2020				97.7	81.7	127	
7/30/2020							99.2
11/3/2020					120		
11/4/2020	200			110		120	130
11/5/2020							
11/9/2020		11					
11/10/2020							
11/20/2020			420				
3/8/2021	210			92	69	110	69
3/9/2021			460				
3/10/2021		12					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/3/2021 2:37 PM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-1R	APMW-11 (bg)	APMW-6R	APMW-13 (bg)	APMW-15 (bg)	APMW-14 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	1900	9.3					
3/27/2019	1900	8.2 (D)					
4/3/2019	1900	8.7 (D)					
4/4/2019							
4/5/2019			4000 (D)				
4/15/2019	1900		3400				
4/16/2019		8.7					
5/2/2019	1900		4100				
5/3/2019		9.3					
5/14/2019	2000	8.8	4200				
5/28/2019	1900						
5/29/2019		8.8	4200				
6/12/2019	2000	8.8	4200				
6/19/2019			4000				
6/25/2019			4000				
8/29/2019		8.1					
8/30/2019	2100		4100				
3/16/2020	2600						
3/17/2020		8.2	6000				
7/21/2020				1470	2910	2920	
7/30/2020							2830
11/3/2020					4900		
11/4/2020	4700			5400		3100	4700
11/5/2020							
11/9/2020		9.1					
11/10/2020							
11/20/2020			4300				
3/8/2021	2500			1600	2900	3000	2600
3/9/2021			4000				
3/10/2021		8.9					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/3/2021 2:37 PM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-1R	APMW-6R	APMW-14 (bg)	APMW-15 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	0.041 (J)	<5					
3/27/2019	0.49 (D)	<5					
4/3/2019	0.086 (JD)	<5					
4/4/2019							
4/5/2019			<5 (D)				
4/15/2019		0.14 (J)	<5				
4/16/2019	0.055 (J)						
5/2/2019		0.13 (J)	<5				
5/3/2019	0.058 (J)						
5/14/2019	0.071 (J)	<5	<5				
5/28/2019		0.16 (J)					
5/29/2019	0.042 (J)		<5				
6/12/2019	0.037 (J)	<5	<5				
6/19/2019			<5				
6/25/2019			0.32 (J)				
8/8/2019	0.072 (J)	0.21 (J)					
8/9/2019			<5				
8/29/2019	0.065 (J)						
8/30/2019		0.21 (J)	0.27 (J)				
3/16/2020		<5					
3/17/2020	0.036 (J)		<5				
7/21/2020				0.07 (J)	0.17	0.09 (J)	
7/30/2020							0.19
11/3/2020					<5		
11/4/2020		<5		<5		0.24 (J)	<5
11/5/2020							
11/9/2020							
11/10/2020							
11/20/2020	<5		<5				
3/8/2021		<5		<5	0.41 (J)	0.17 (J)	0.28 (J)
3/9/2021			<5				
3/10/2021	0.052 (J)						

Prediction Limit

Constituent: pH (SU) Analysis Run 5/3/2021 2:37 PM View: Appendix III
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-11 (bg)	APMW-6R	APMW-14 (bg)	APMW-15 (bg)	APMW-13 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	6.44	6.97					
3/27/2019	6.38	6.7					
4/3/2019	6.19	6.45					
4/4/2019							
4/5/2019			6.12				
4/15/2019			6.14				
4/16/2019	6.3	6.52					
5/2/2019			6.19				
5/3/2019	6.33	6.37					
5/14/2019	6.64	6.57	6.12				
5/28/2019							
5/29/2019	6.6	6.31	6.11				
6/12/2019	6.31	6.41	6.09				
6/19/2019			6.1				
6/25/2019			6.18				
8/8/2019	6.12	6.29					
8/9/2019			6.03				
8/29/2019	6.24	6.2					
8/30/2019			5.92				
3/16/2020							
3/17/2020	6.2	6.2	5.97				
7/21/2020				6.08	6.51	6.01	
7/30/2020							6.48
11/3/2020					6.51		
11/4/2020				6.03		6.01	6.58
11/5/2020							
11/9/2020		6.21					
11/10/2020							
11/20/2020	6.31		6.09				
3/8/2021				5.99	6.41	5.97	6.48
3/9/2021			6.13				
3/10/2021		6.29					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/3/2021 2:37 PM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-1R	APMW-11 (bg)	APMW-6R	APMW-13 (bg)	APMW-15 (bg)	APMW-14 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	14	3.6					
3/27/2019	19	0.81 (JD)					
4/3/2019	4.6 (J)	1.1 (D)					
4/4/2019							
4/5/2019			800 (D)				
4/15/2019	8.6		700				
4/16/2019		0.68 (J)					
5/2/2019	6		810				
5/3/2019		1.1					
5/14/2019	5.8	1.3	810				
5/28/2019	9.4						
5/29/2019		2.1	830				
6/12/2019	8.8	1.9	830				
6/19/2019			810				
6/25/2019			800				
8/29/2019		2.3					
8/30/2019	13		800				
3/16/2020	23						
3/17/2020		3.7	590				
7/21/2020				802	52.9	713	
7/30/2020							33.4
11/3/2020					550		
11/4/2020	10			1700		670	440
11/5/2020							
11/9/2020		0.51 (J)					
11/10/2020							
11/20/2020			790				
3/8/2021	12			720	97	740	72
3/9/2021			830				
3/10/2021		<1					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2021 2:37 PM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-1R	APMW-6R	APMW-14 (bg)	APMW-13 (bg)	APMW-15 (bg)	APMW-16 (bg)
4/24/2018							
4/25/2018							
6/13/2018							
6/14/2018							
7/23/2018							
7/24/2018							
9/1/2018							
9/6/2018							
10/1/2018							
10/2/2018							
11/1/2018							
11/2/2018							
12/6/2018							
12/7/2018							
2/13/2019							
3/16/2019	120	3300					
3/27/2019	63 (D)	2900					
4/3/2019	100 (D)	3600					
4/4/2019							
4/5/2019			7800 (D)				
4/15/2019		3300	6600				
4/16/2019	110						
5/2/2019		3300	7400				
5/3/2019	91						
5/14/2019	120	3600	8300				
5/28/2019		3500					
5/29/2019	140		8600				
6/12/2019	100		6800				
6/19/2019			7100				
6/25/2019			8500				
8/29/2019	73						
8/30/2019		3500	6600				
3/16/2020		4500					
3/17/2020	95		7200				
7/21/2020				6350	3760	5400	
7/30/2020							5020
11/3/2020						9200	
11/4/2020		5000		6500	5400		8500
11/5/2020							
11/9/2020	68						
11/10/2020							
11/20/2020			7400				
3/8/2021		5200		6800	3600	6200	5100
3/9/2021			8800				
3/10/2021	89						

Trend Tests

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/3/2021, 2:41 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-12 (bg)	0.03244	39	38	Yes	12	25	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	1.569	43	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	42.4	40	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-17.76	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.1237	54	48	Yes	14	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.4374	-54	-43	Yes	13	0	n/a	n/a	0.01	NP

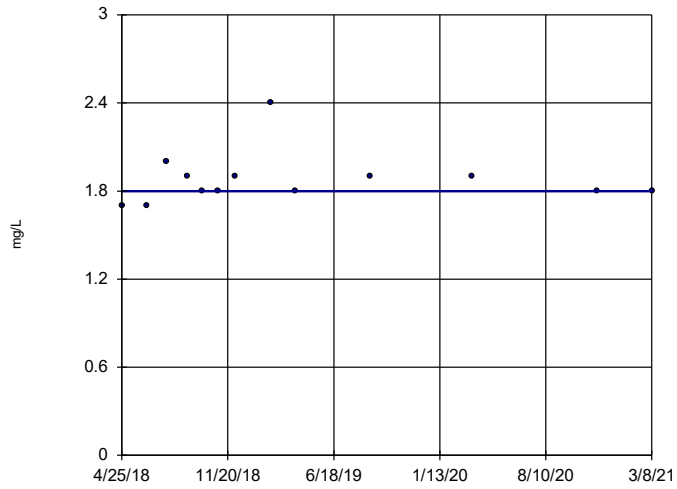
Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/3/2021, 2:41 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-10	0	9	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-11 (bg)	0.001682	15	38	No	12	50	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-12 (bg)	0.03244	39	38	Yes	12	25	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	1.569	43	38	Yes	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-2	-0.2056	-40	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-3	0	2	43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-5	-0.2671	-21	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-6R	1.272	30	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-8	-0.6113	-20	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-9	0	-6	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-5.208	-36	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-12 (bg)	-0.5436	-23	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	42.4	40	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-2	0	-1	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-3	0	0	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-17.76	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-5	-5.018	-15	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-6R	27.58	26	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-8	-23.25	-32	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-9	-5.852	-21	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-11 (bg)	0	2	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-12 (bg)	0	7	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-373	-32	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-5	60.68	16	43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.1237	54	48	Yes	14	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.4374	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
pH (SU)	APMW-12 (bg)	-0.1724	-17	-38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	APMW-9	0.0339	12	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-11 (bg)	-8.793	-16	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-12 (bg)	0	-2	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-3	415.6	12	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-5	0	10	43	No	13	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

APMW-10

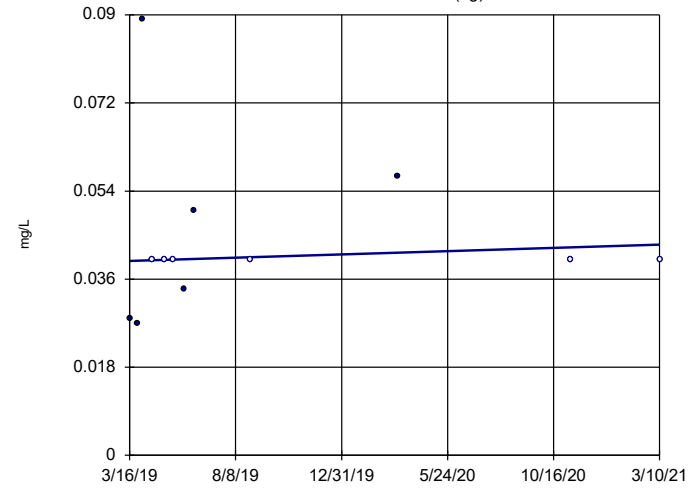


n = 13
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 9
 critical = 43
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-11 (bg)

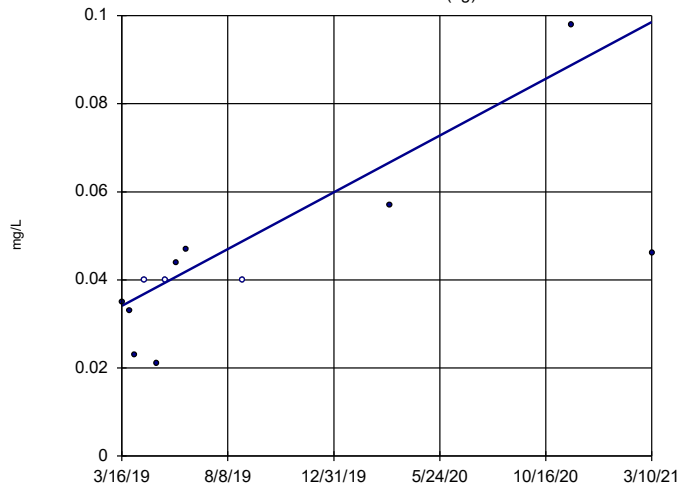


n = 12
 Slope = 0.001682
 units per year.
 Mann-Kendall
 statistic = 15
 critical = 38
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-12 (bg)

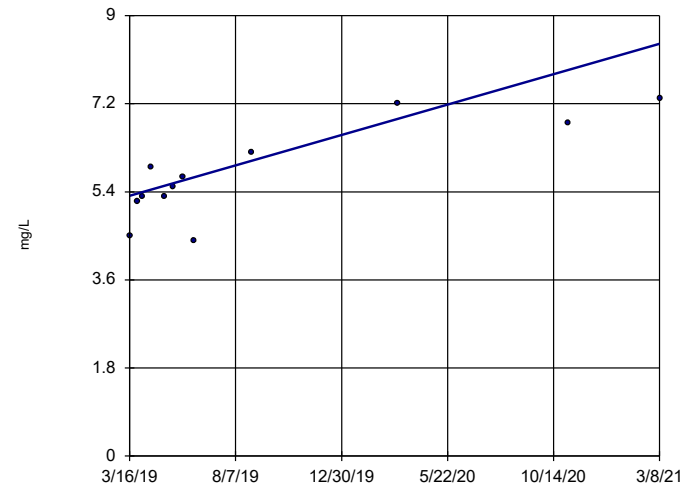


n = 12
 Slope = 0.03244
 units per year.
 Mann-Kendall
 statistic = 39
 critical = 38
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-1R

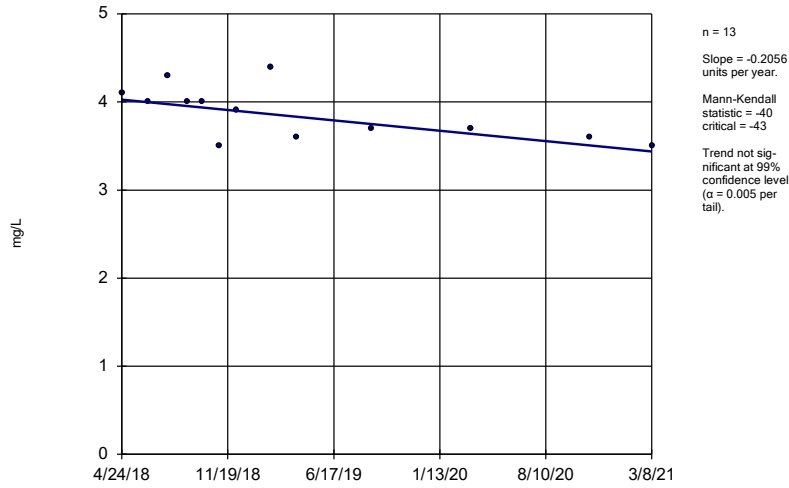


n = 12
 Slope = 1.569
 units per year.
 Mann-Kendall
 statistic = 43
 critical = 38
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

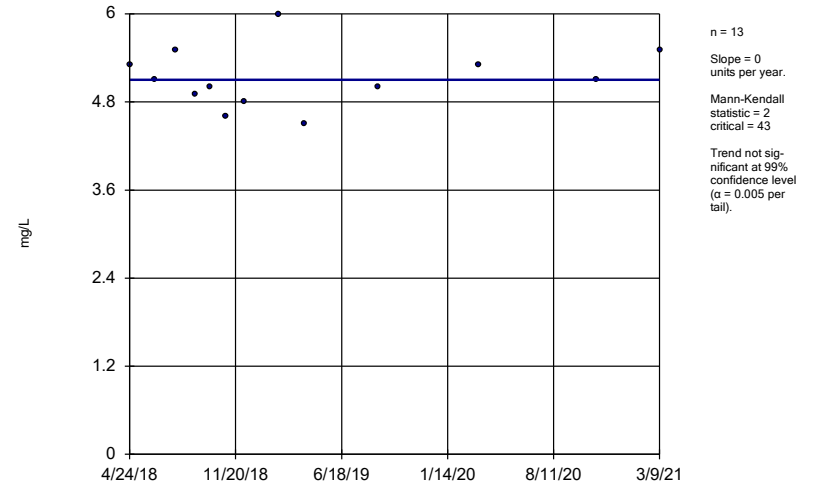
APMW-2



Constituent: Boron Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

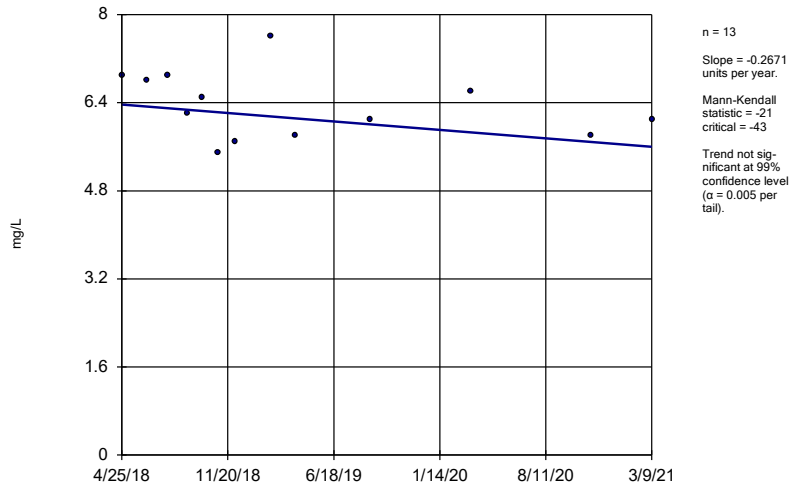
APMW-3



Constituent: Boron Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

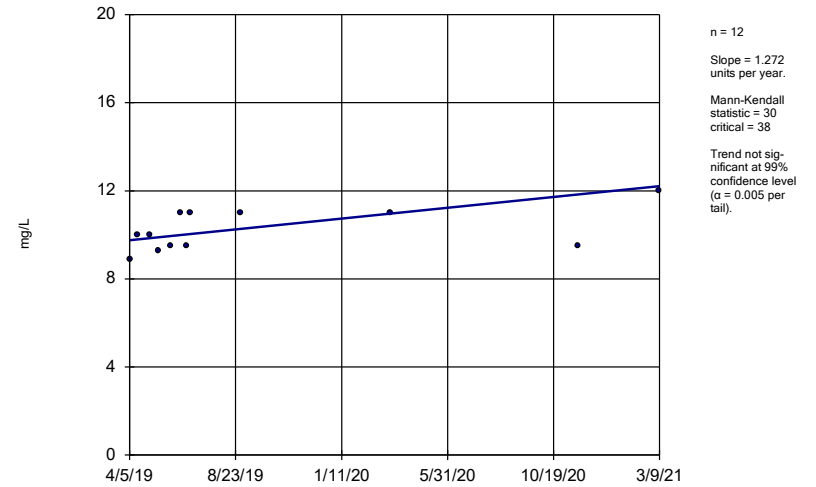
APMW-5



Constituent: Boron Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

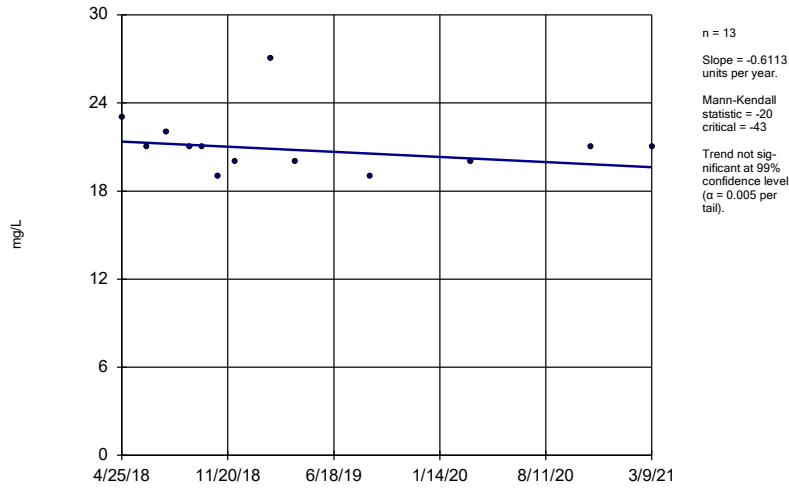
Sen's Slope Estimator

APMW-6R



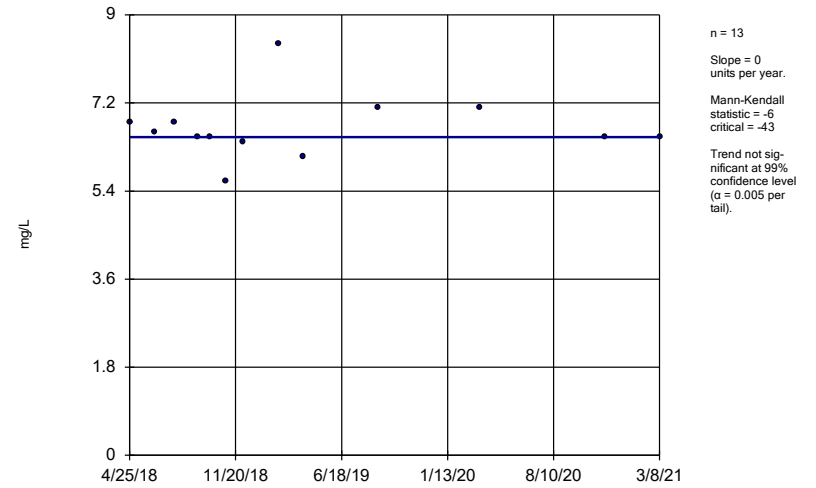
Constituent: Boron Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator
APMW-8



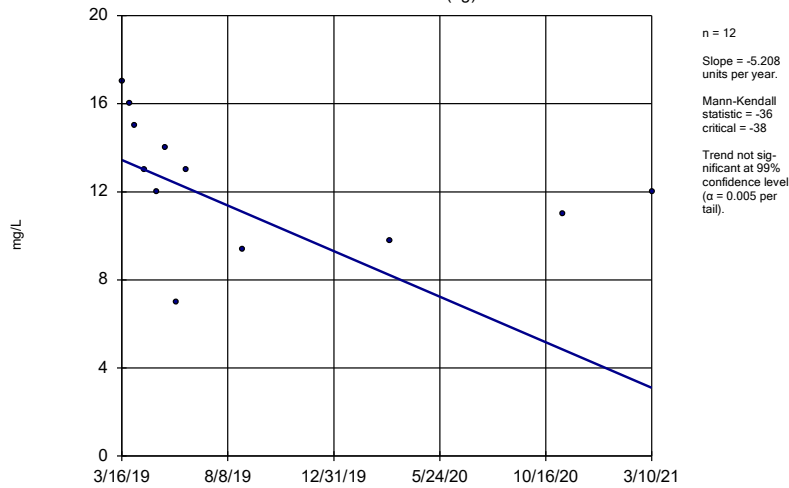
Constituent: Boron Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator
APMW-9



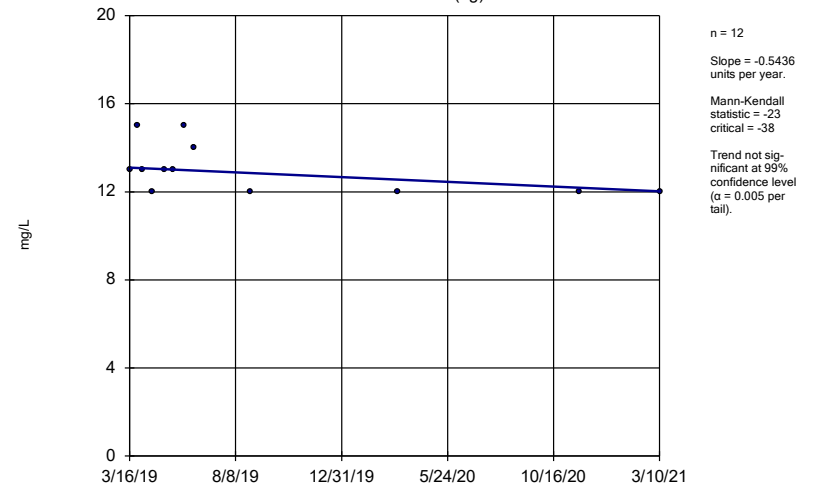
Constituent: Boron Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator
APMW-11 (bg)



Constituent: Calcium Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

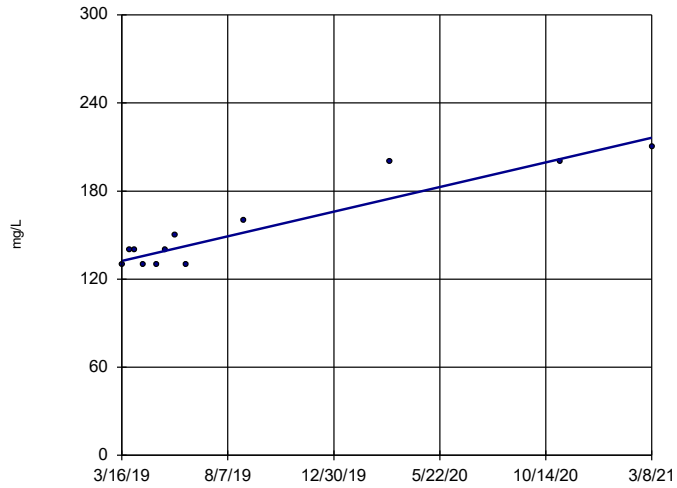
Sen's Slope Estimator
APMW-12 (bg)



Constituent: Calcium Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-1R

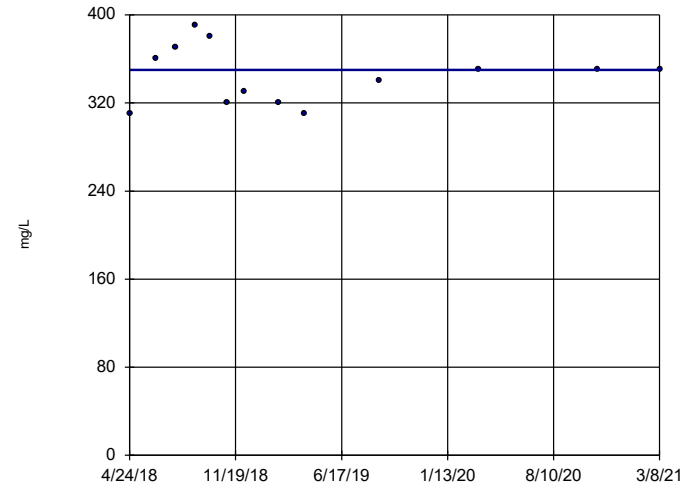


n = 12
 Slope = 42.4 units per year.
 Mann-Kendall statistic = 40
 critical = 38
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-2

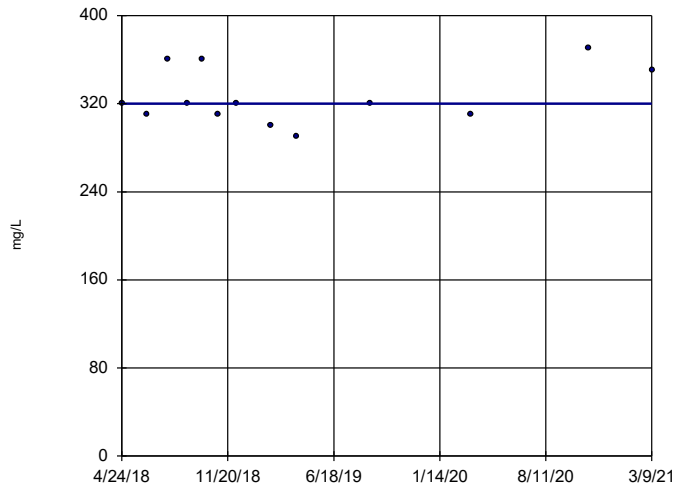


n = 13
 Slope = 0 units per year.
 Mann-Kendall statistic = -1
 critical = -43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-3

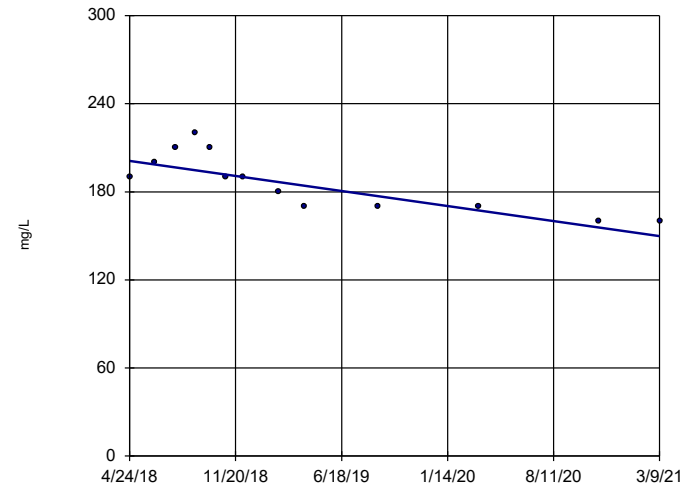


n = 13
 Slope = 0 units per year.
 Mann-Kendall statistic = 0
 critical = 43
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-4

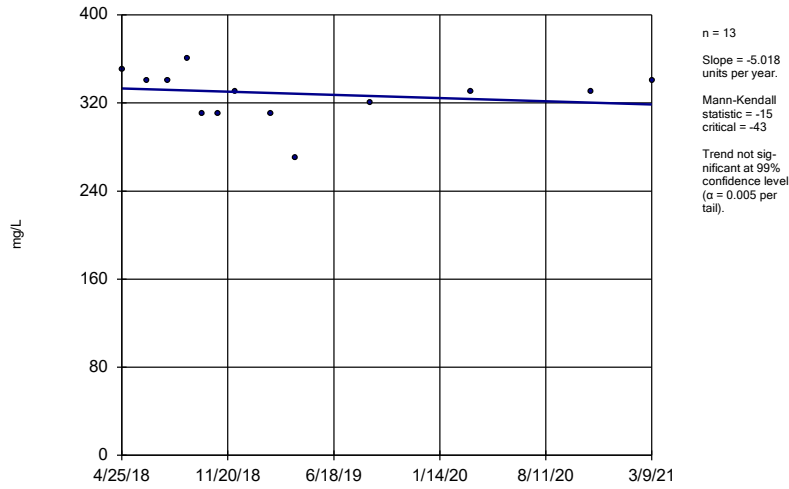


n = 13
 Slope = -17.76 units per year.
 Mann-Kendall statistic = -54
 critical = -43
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

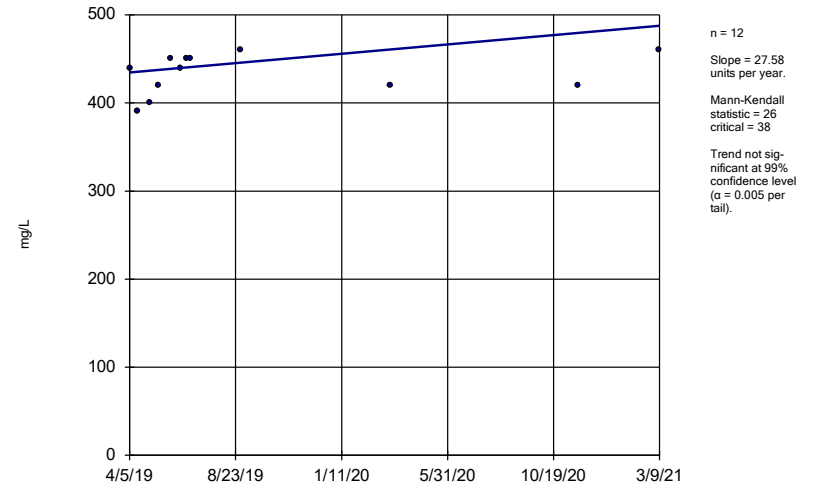
APMW-5



Constituent: Calcium Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

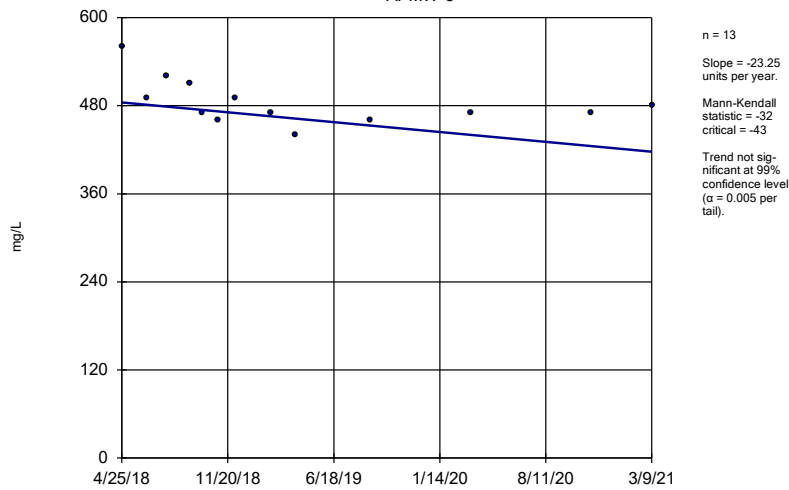
APMW-6R



Constituent: Calcium Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

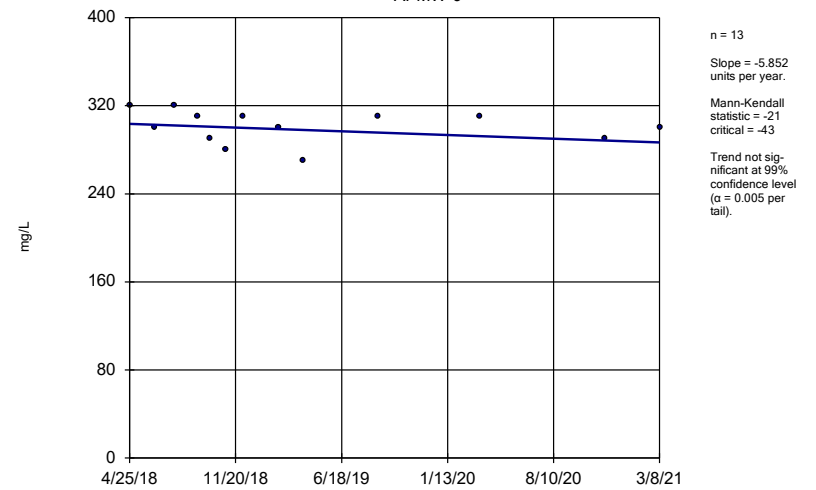
APMW-8



Constituent: Calcium Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

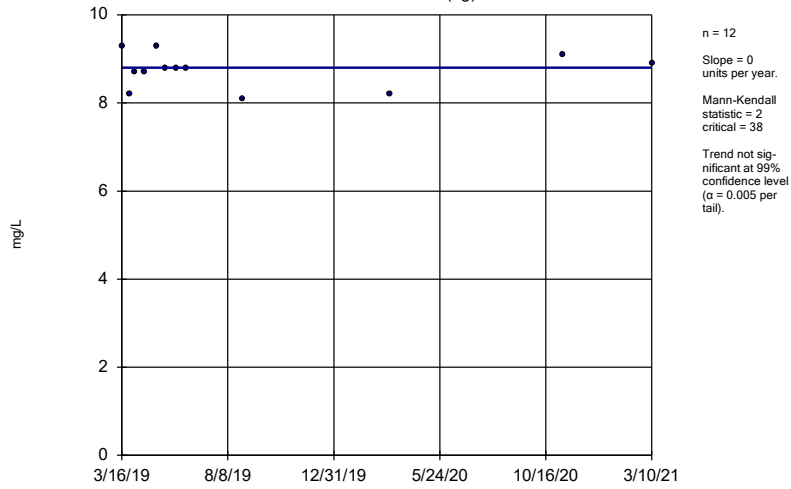
APMW-9



Constituent: Calcium Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

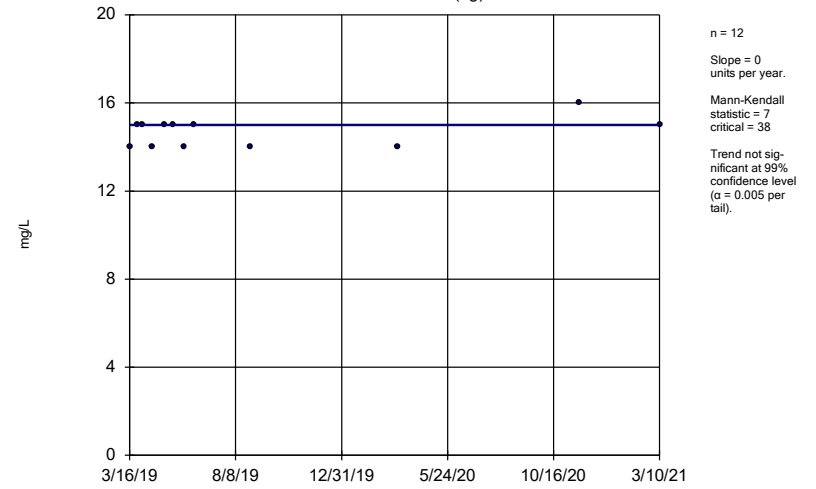
APMW-11 (bg)



Constituent: Chloride Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

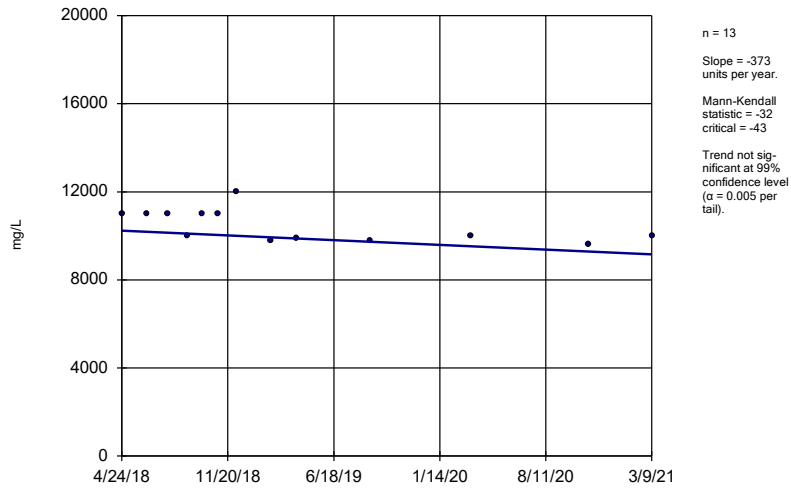
APMW-12 (bg)



Constituent: Chloride Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

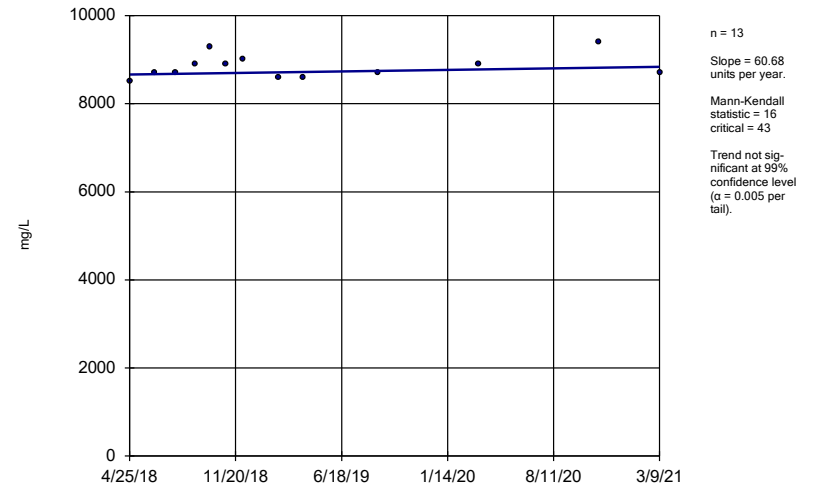
APMW-3



Constituent: Chloride Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

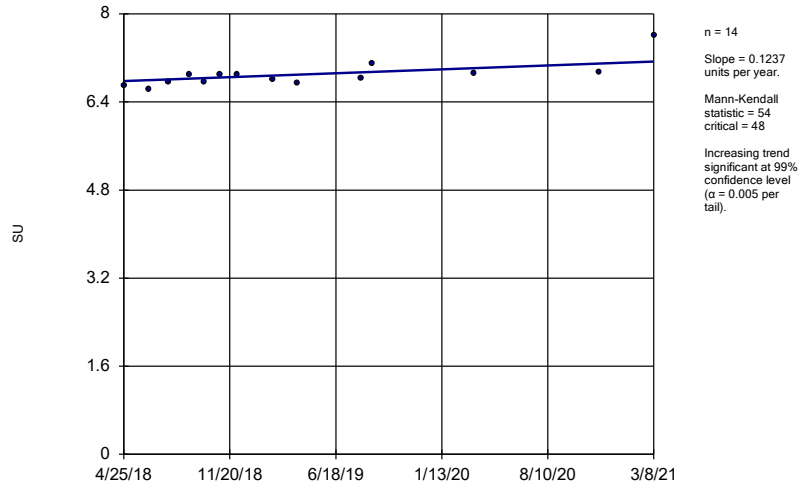
APMW-5



Constituent: Chloride Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

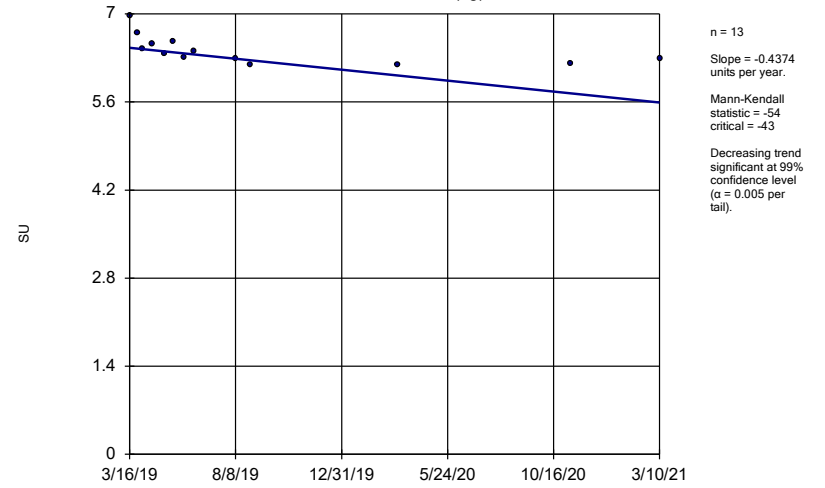
APMW-10



Constituent: pH Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

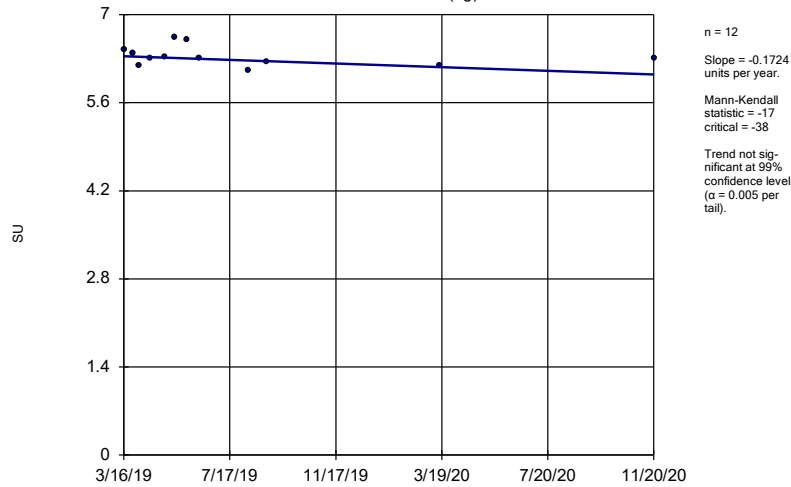
APMW-11 (bg)



Constituent: pH Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

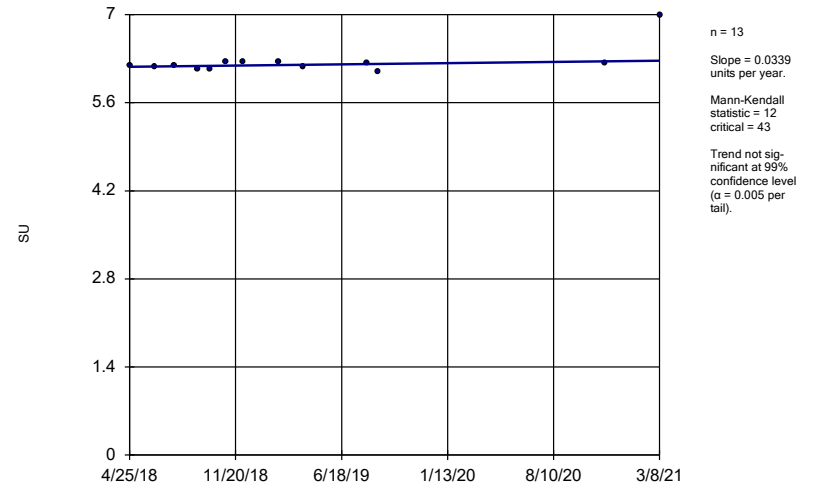
APMW-12 (bg)



Constituent: pH Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

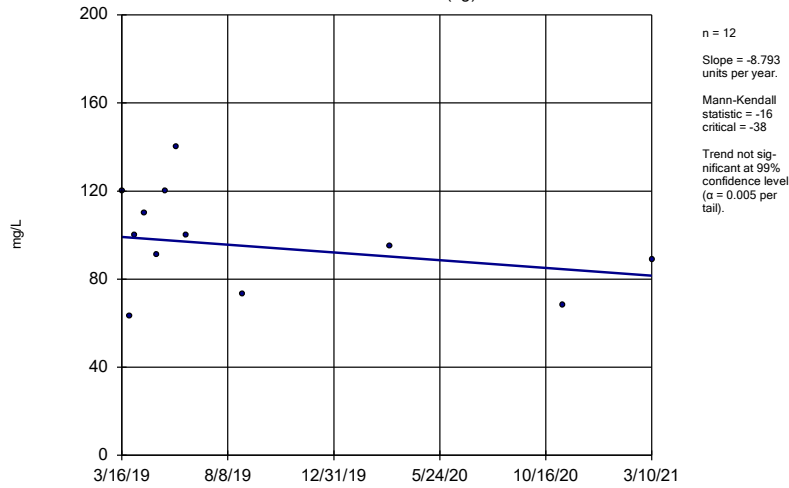
APMW-9



Constituent: pH Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

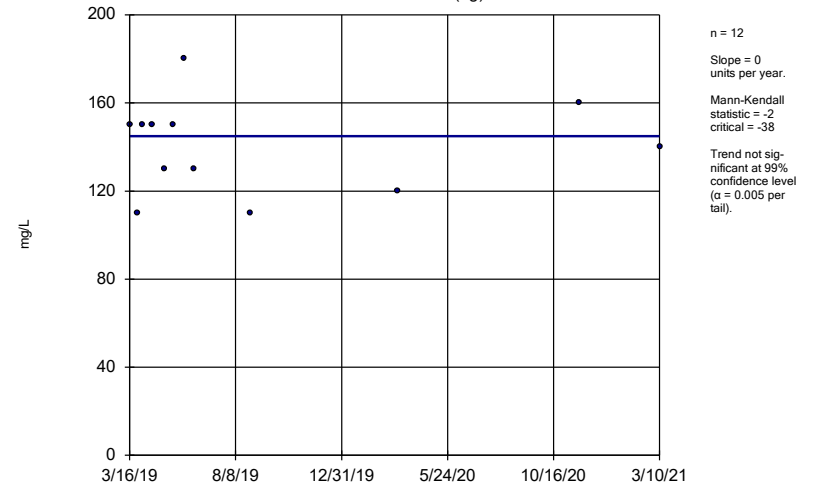
APMW-11 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

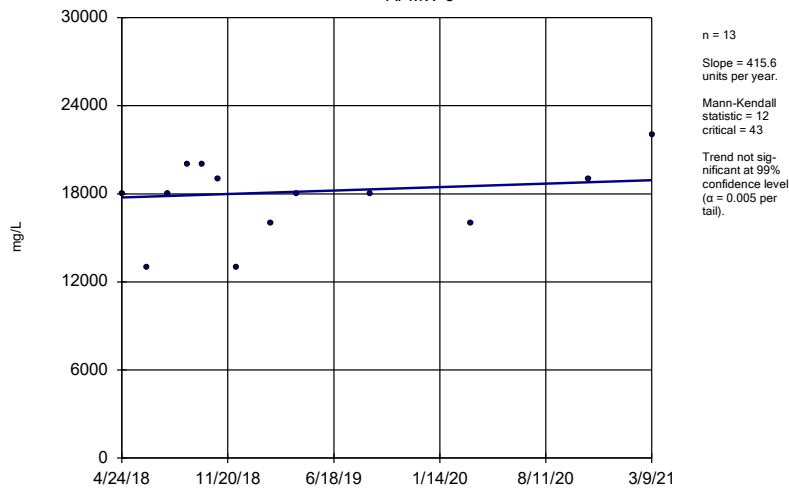
APMW-12 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

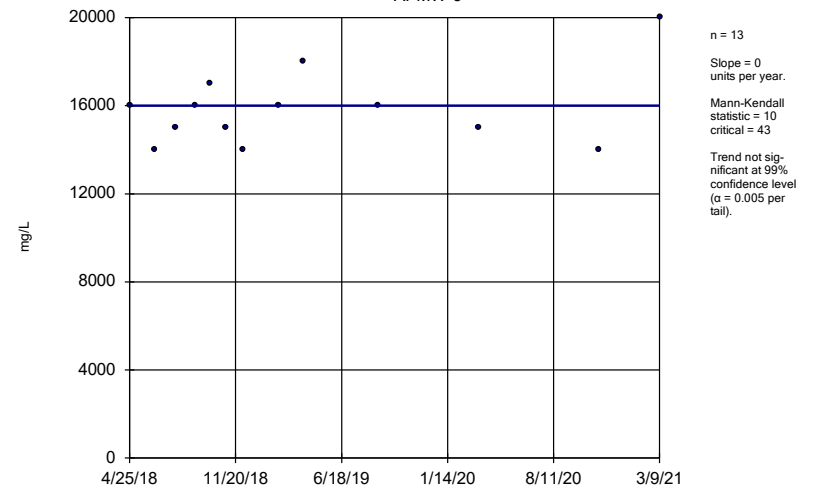
APMW-3



Constituent: Total Dissolved Solids Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-5



Constituent: Total Dissolved Solids Analysis Run 5/3/2021 2:39 PM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

GWPS Table

PLANT WATSON AP CCR GWPS TABLE				
Constituent Name	MCL	CCR Rule-Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.24	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0044	0.1
Cobalt, Total (mg/L)		0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		5.04	5.04
Fluoride, Total (mg/L)	4		2	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.027	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

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

Tolerance Limits

Upper Tolerance Limits Summary Table

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/3/2021, 2:50 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.002	n/a	n/a	38	n/a	n/a	100	n/a	n/a	0.1424	NP Inter(NDs)
Arsenic (mg/L)	0.00496	n/a	n/a	38	n/a	n/a	39.47	n/a	n/a	0.1424	NP Inter(normality)
Barium (mg/L)	0.243	n/a	n/a	38	n/a	n/a	0	n/a	n/a	0.1424	NP Inter(normality)
Beryllium (mg/L)	0.0025	n/a	n/a	38	n/a	n/a	92.11	n/a	n/a	0.1424	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	38	n/a	n/a	97.37	n/a	n/a	0.1424	NP Inter(NDs)
Chromium (mg/L)	0.0044	n/a	n/a	34	n/a	n/a	88.24	n/a	n/a	0.1748	NP Inter(NDs)
Cobalt (mg/L)	0.0025	n/a	n/a	38	n/a	n/a	94.74	n/a	n/a	0.1424	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	5.04	n/a	n/a	38	n/a	n/a	5.263	n/a	n/a	0.1424	NP Inter
Fluoride (mg/L)	2	n/a	n/a	38	n/a	n/a	28.95	n/a	n/a	0.1424	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	38	n/a	n/a	97.37	n/a	n/a	0.1424	NP Inter(NDs)
Lithium (mg/L)	0.02693	n/a	n/a	38	0.102	0.029	7.895	None	sqrt(x)	0.05	Inter
Mercury (mg/L)	0.0002	n/a	n/a	34	n/a	n/a	94.12	n/a	n/a	0.1748	NP Inter(NDs)
Molybdenum (mg/L)	0.015	n/a	n/a	38	n/a	n/a	94.74	n/a	n/a	0.1424	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	38	n/a	n/a	100	n/a	n/a	0.1424	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	38	n/a	n/a	94.74	n/a	n/a	0.1424	NP Inter(NDs)

Confidence Intervals

Appendix IV Confidence Intervals - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/4/2021, 6:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	APMW-10	0.1202	0.08424	0.01	Yes	13	0.1022	0.02419	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-3	0.08388	0.06227	0.01	Yes	13	0.07308	0.01453	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01833	0.0169	0.01	Yes	13	0.01762	0.0009608	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2417	0.2137	0.01	Yes	13	0.2277	0.01878	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1717	0.1236	0.01	Yes	13	0.1476	0.03234	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08493	0.05199	0.01	Yes	13	0.06846	0.02215	0	None	No	0.01	Param.
Barium (mg/L)	APMW-2	3.361	2.895	2	Yes	13	3.131	0.3225	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	9.701	6.022	5.04	Yes	13	7.862	2.474	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.26	17.45	5.04	Yes	13	18.85	1.892	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	7.043	5.073	5.04	Yes	13	6.058	1.325	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.136	5.466	5.04	Yes	13	6.232	1.303	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	7.739	6.667	5.04	Yes	13	7.218	0.7706	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	APMW-3	0.091	0.071	0.04	Yes	13	0.07908	0.01146	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.077	0.051	0.04	Yes	13	0.05831	0.009543	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.069	0.044	0.04	Yes	13	0.05023	0.009816	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05904	0.0525	0.04	Yes	13	0.05577	0.0044	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.13	0.073	0.04	Yes	13	0.09292	0.02529	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-6R	0.4445	0.3647	0.1	Yes	13	0.4046	0.05364	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-8	0.1594	0.1045	0.1	Yes	13	0.1319	0.03689	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/4/2021, 6:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	APMW-2	0.002	0.0014	0.006	No	13	0.001954	0.0001664	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-10	0.1202	0.08424	0.01	Yes	13	0.1022	0.02419	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-1R	0.002126	0.0009726	0.01	No	13	0.001549	0.0007755	7.692	None	No	0.01	Param.
Arsenic (mg/L)	APMW-2	0.00094	0.00035	0.01	No	13	0.0005969	0.000234	69.23	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-3	0.08388	0.06227	0.01	Yes	13	0.07308	0.01453	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01833	0.0169	0.01	Yes	13	0.01762	0.0009608	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2417	0.2137	0.01	Yes	13	0.2277	0.01878	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1717	0.1236	0.01	Yes	13	0.1476	0.03234	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-7	0.002039	0.0006735	0.01	No	13	0.001356	0.0009181	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.08493	0.05199	0.01	Yes	13	0.06846	0.02215	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-9	0.001441	0.001113	0.01	No	13	0.001277	0.0002204	0	None	No	0.01	Param.
Barium (mg/L)	APMW-10	0.2761	0.2301	2	No	13	0.2531	0.03093	0	None	No	0.01	Param.
Barium (mg/L)	APMW-1R	1.165	0.9322	2	No	13	1.051	0.1617	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	APMW-2	3.361	2.895	2	Yes	13	3.131	0.3225	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	APMW-3	0.11	0.097	2	No	13	0.1028	0.006479	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-4	0.492	0.3157	2	No	13	0.4038	0.1185	0	None	No	0.01	Param.
Barium (mg/L)	APMW-5	0.1073	0.09454	2	No	13	0.1009	0.008578	0	None	No	0.01	Param.
Barium (mg/L)	APMW-6R	0.06647	0.05461	2	No	13	0.06054	0.007975	0	None	No	0.01	Param.
Barium (mg/L)	APMW-7	0.8423	0.6008	2	No	13	0.7215	0.1624	0	None	No	0.01	Param.
Barium (mg/L)	APMW-8	0.2213	0.2048	2	No	13	0.2131	0.01109	0	None	No	0.01	Param.
Barium (mg/L)	APMW-9	0.4609	0.4253	2	No	13	0.4431	0.02394	0	None	No	0.01	Param.
Beryllium (mg/L)	APMW-10	0.0025	0.00076	0.004	No	13	0.002207	0.0007186	84.62	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-1R	0.0025	0.00019	0.004	No	13	0.002322	0.0006407	92.31	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-2	0.0025	0.00023	0.004	No	13	0.002002	0.0009521	76.92	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-3	0.0025	0.00018	0.004	No	13	0.002322	0.0006435	92.31	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-6R	0.0025	0.00036	0.004	No	13	0.002335	0.0005935	92.31	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-7	0.0025	0.00025	0.004	No	13	0.002327	0.000624	92.31	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-8	0.0025	0.00038	0.004	No	13	0.002337	0.000588	92.31	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-9	0.0025	0.00049	0.004	No	13	0.002172	0.0008034	84.62	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-10	0.0025	0.00025	0.005	No	13	0.002327	0.000624	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-1R	0.0025	0.00045	0.005	No	13	0.002342	0.0005686	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-6R	0.0025	0.00026	0.005	No	13	0.002146	0.0008641	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-1R	0.002	0.002	0.1	No	11	0.002109	0.0003618	90.91	None	No	0.006	NP (NDs)
Chromium (mg/L)	APMW-3	0.002	0.002	0.1	No	11	0.001945	0.0001809	90.91	None	No	0.006	NP (NDs)
Chromium (mg/L)	APMW-4	0.002353	0.001425	0.1	No	11	0.002018	0.0005076	27.27	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	APMW-5	0.002	0.0013	0.1	No	11	0.0018	0.0003821	54.55	Kaplan-Meier	No	0.006	NP (NDs)
Chromium (mg/L)	APMW-7	0.002	0.0014	0.1	No	11	0.001709	0.000336	36.36	None	No	0.006	NP (normality)
Chromium (mg/L)	APMW-8	0.002	0.002	0.1	No	11	0.002055	0.0004204	81.82	None	No	0.006	NP (NDs)
Cobalt (mg/L)	APMW-10	0.0025	0.00012	0.006	No	13	0.001964	0.00102	76.92	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-1R	0.0025	0.00037	0.006	No	13	0.001191	0.001082	38.46	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-3	0.002893	0.002322	0.006	No	13	0.002608	0.000384	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-4	0.00386	0.003263	0.006	No	13	0.003562	0.0004011	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-5	0.0025	0.000079	0.006	No	13	0.002127	0.0009099	84.62	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-6R	0.00364	0.001853	0.006	No	13	0.002746	0.001202	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-7	0.0025	0.00024	0.006	No	13	0.001472	0.001156	53.85	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-9	0.0025	0.000089	0.006	No	13	0.002129	0.0009064	84.62	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	APMW-10	3.197	2.505	5.04	No	13	2.851	0.4655	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	9.701	6.022	5.04	Yes	13	7.862	2.474	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.26	17.45	5.04	Yes	13	18.85	1.892	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	7.043	5.073	5.04	Yes	13	6.058	1.325	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-4	2.695	1.842	5.04	No	13	2.268	0.5736	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-5	4.609	3.677	5.04	No	13	4.143	0.6268	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-6R	3.366	2.71	5.04	No	13	2.906	0.855	0	None	x^3	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.136	5.466	5.04	Yes	13	6.232	1.303	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-8	3.988	3.259	5.04	No	13	3.624	0.4901	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	7.739	6.667	5.04	Yes	13	7.218	0.7706	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	APMW-10	0.7799	0.5901	4	No	14	0.685	0.134	0	None	No	0.01	Param.

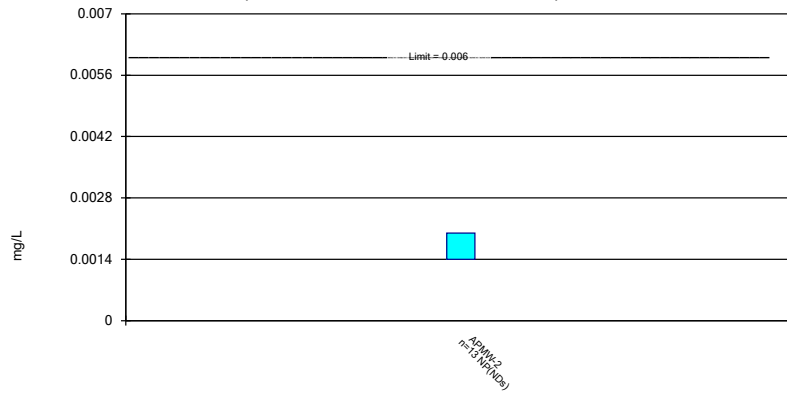
Appendix IV Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/4/2021, 6:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	APMW-1R	5	0.14	4	No	13	3.142	2.446	61.54	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-2	5	0.06	4	No	13	1.228	2.151	23.08	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-3	5	0.37	4	No	14	1.481	1.914	21.43	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-4	0.58	0.48	4	No	14	1.151	1.632	14.29	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-5	5	0.09	4	No	13	2.357	2.547	46.15	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-6R	5	0.32	4	No	13	4.276	1.767	84.62	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-7	1.6	0.11	4	No	14	0.9621	1.754	14.29	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-8	1.042	0.8322	4	No	14	0.9179	0.1846	0	None	x^3	0.01	Param.
Fluoride (mg/L)	APMW-9	5	0.06	4	No	13	1.602	2.358	30.77	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-10	0.0011	0.0006	0.015	No	13	0.0009123	0.0002542	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-3	0.001	0.00048	0.015	No	13	0.00096	0.0001442	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-4	0.001	0.00062	0.015	No	13	0.0009708	0.0001054	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-5	0.0011	0.00041	0.015	No	13	0.0009131	0.0002362	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-6R	0.001	0.00032	0.015	No	13	0.0009477	0.0001886	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-7	0.0019	0.001	0.015	No	13	0.001069	0.0002496	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-8	0.0013	0.001	0.015	No	13	0.001069	0.0001797	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-9	0.001	0.00039	0.015	No	13	0.0008862	0.0002829	84.62	None	No	0.01	NP (NDs)
Lithium (mg/L)	APMW-10	0.01971	0.01154	0.04	No	13	0.01615	0.007347	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	APMW-1R	0.01327	0.0107	0.04	No	13	0.01158	0.002971	7.692	None	x^3	0.01	Param.
Lithium (mg/L)	APMW-2	0.02861	0.02262	0.04	No	13	0.02562	0.004032	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.091	0.071	0.04	Yes	13	0.07908	0.01146	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-4	0.077	0.051	0.04	Yes	13	0.05831	0.009543	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.069	0.044	0.04	Yes	13	0.05023	0.009816	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05904	0.0525	0.04	Yes	13	0.05577	0.0044	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-7	0.004285	0.00222	0.04	No	12	0.003317	0.001478	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	APMW-8	0.13	0.073	0.04	Yes	13	0.09292	0.02529	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-9	0.004952	0.002958	0.04	No	12	0.0039	0.001483	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	APMW-10	0.0002	0.0002	0.002	No	11	0.0001895	0.00003467	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	APMW-1R	0.0002	0.0002	0.002	No	11	0.0001955	0.00001508	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	APMW-5	0.0002	0.0002	0.002	No	11	0.0001903	0.00003226	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	APMW-7	0.0002	0.0002	0.002	No	11	0.00019	0.00003317	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	APMW-8	0.0002	0.0002	0.002	No	11	0.0001888	0.00003709	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	APMW-9	0.0002	0.0002	0.002	No	11	0.0002136	0.00004523	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	APMW-10	0.11	0.059	0.1	No	13	0.09215	0.01953	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-2	0.015	0.00079	0.1	No	13	0.01391	0.003941	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-3	0.07093	0.06061	0.1	No	13	0.06577	0.006942	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-4	0.01029	0.007863	0.1	No	13	0.009077	0.001633	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-5	0.1042	0.06517	0.1	No	13	0.08469	0.02625	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-6R	0.4445	0.3647	0.1	Yes	13	0.4046	0.05364	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-7	0.015	0.0047	0.1	No	13	0.01046	0.005293	53.85	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-8	0.1594	0.1045	0.1	Yes	13	0.1319	0.03689	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-9	0.015	0.00093	0.1	No	13	0.01283	0.005289	84.62	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-10	0.005	0.00035	0.05	No	13	0.003946	0.002004	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-2	0.005	0.00061	0.05	No	13	0.003977	0.001946	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-3	0.005	0.001	0.05	No	13	0.003013	0.001937	46.15	None	No	0.01	NP (normality)
Selenium (mg/L)	APMW-4	0.005	0.00055	0.05	No	13	0.003968	0.001961	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-5	0.005	0.00071	0.05	No	13	0.003993	0.001914	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-7	0.005	0.00039	0.05	No	13	0.003939	0.002016	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-8	0.005	0.00049	0.05	No	13	0.003962	0.001972	76.92	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-9	0.005	0.00041	0.05	No	13	0.003961	0.001978	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-10	0.001	0.00058	0.002	No	13	0.0008777	0.0002593	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-1R	0.001	0.00019	0.002	No	13	0.0009377	0.0002247	92.31	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-2	0.001	0.00084	0.002	No	13	0.0009877	0.00004438	92.31	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-3	0.001	0.00012	0.002	No	13	0.0009323	0.0002441	92.31	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-8	0.0013	0.00025	0.002	No	13	0.0009015	0.0003182	76.92	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-9	0.0016	0.00024	0.002	No	13	0.0009877	0.0002792	84.62	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

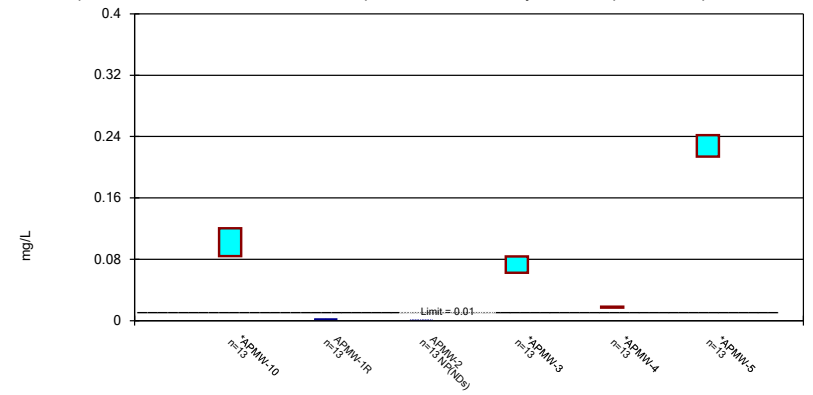
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 5/4/2021 6:34 PM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

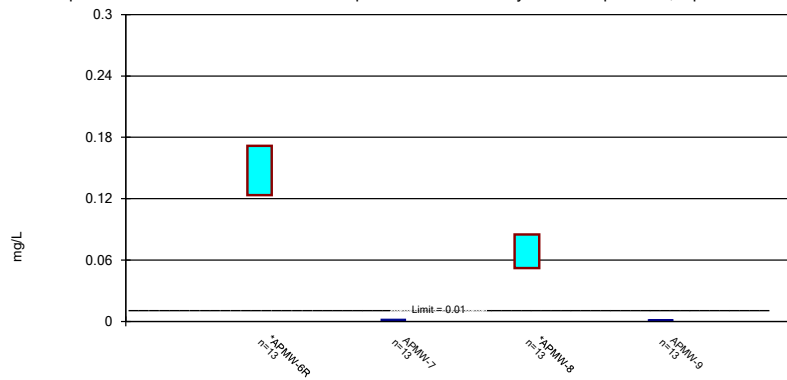
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/4/2021 6:34 PM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric Confidence Interval

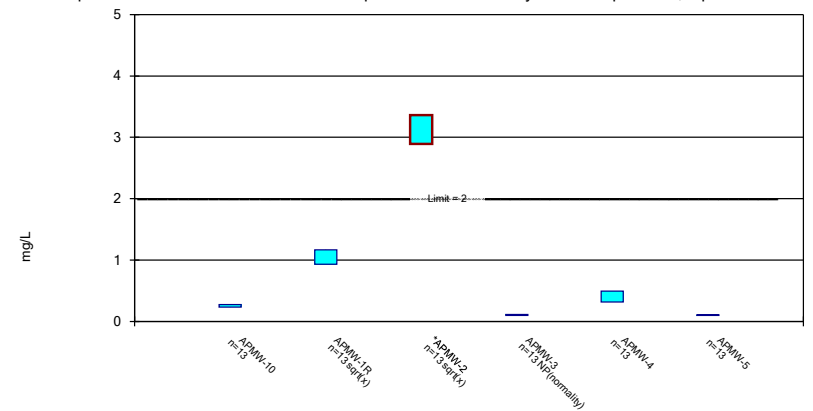
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/4/2021 6:34 PM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

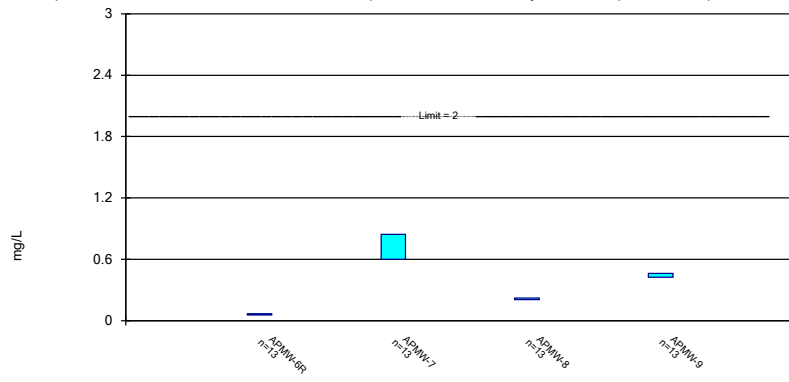
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/4/2021 6:34 PM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric Confidence Interval

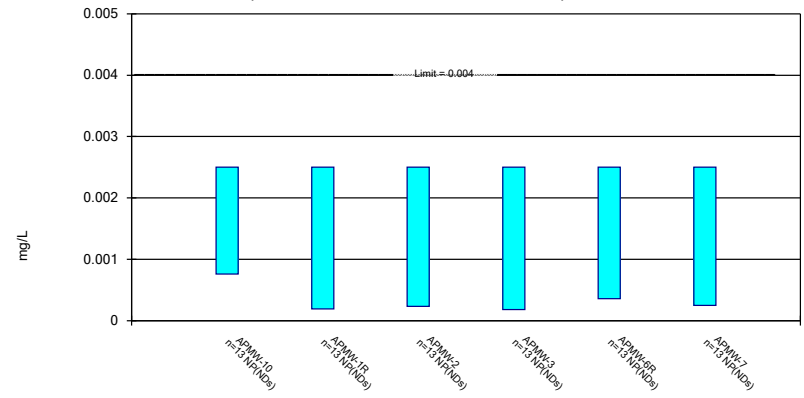
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/4/2021 6:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

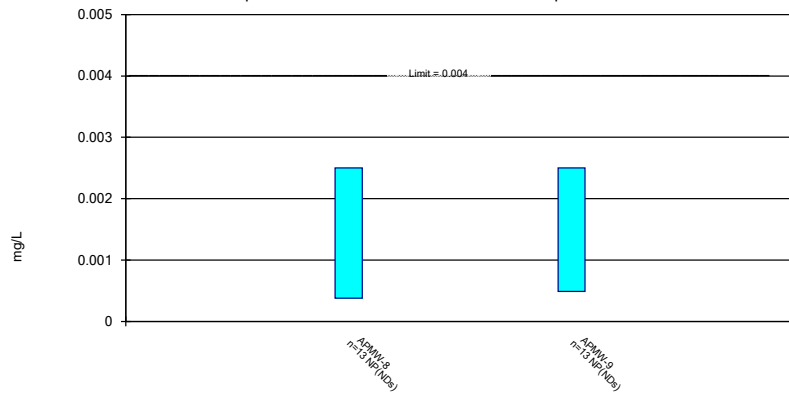
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 5/4/2021 6:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

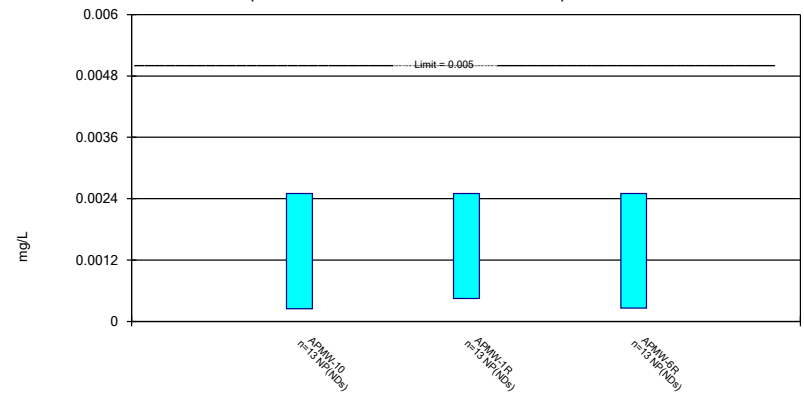
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 5/4/2021 6:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

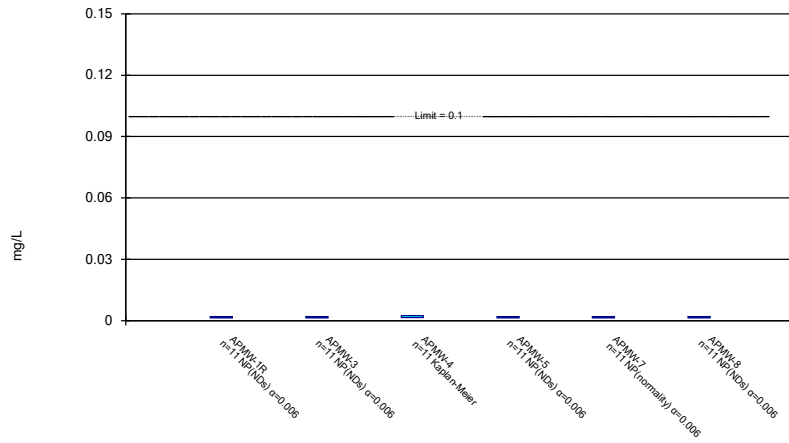
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 5/4/2021 6:34 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

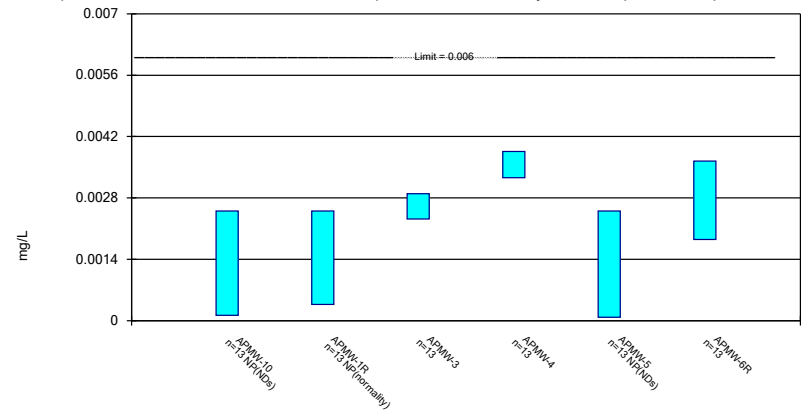
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/4/2021 6:35 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

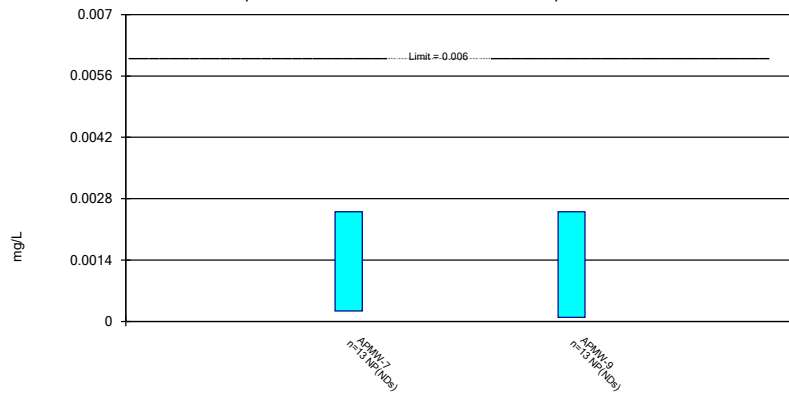
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/4/2021 6:35 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

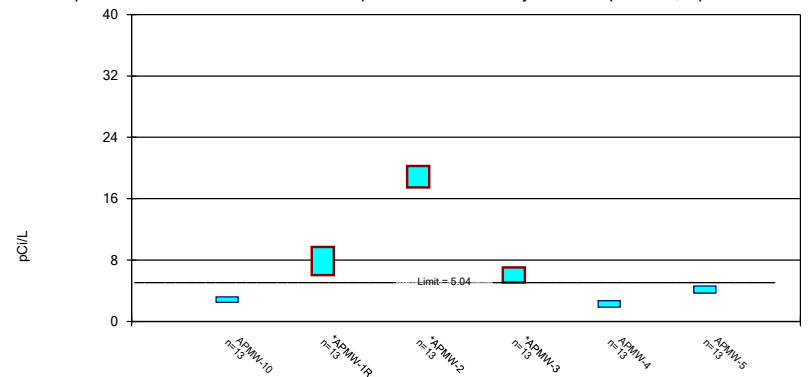
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 5/4/2021 6:35 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric Confidence Interval

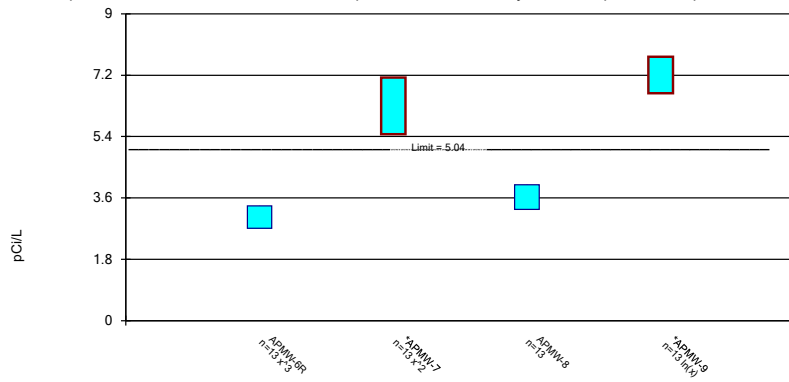
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2021 6:35 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric Confidence Interval

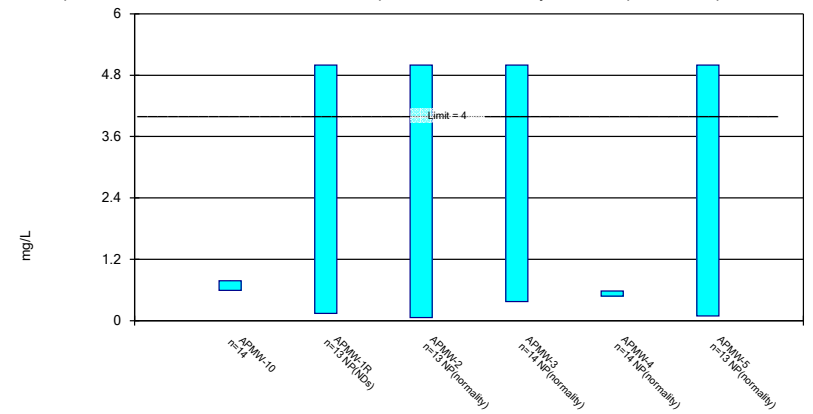
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/4/2021 6:35 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

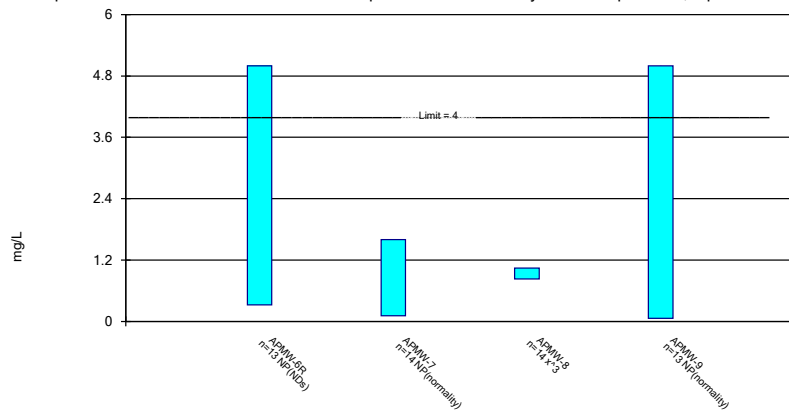
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/4/2021 6:35 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

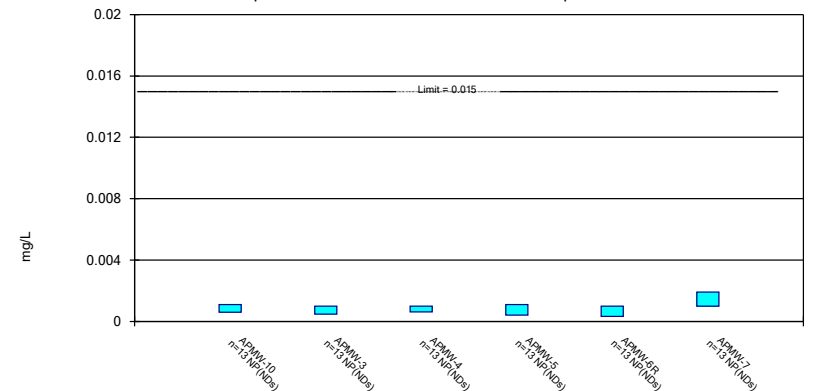
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/4/2021 6:35 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

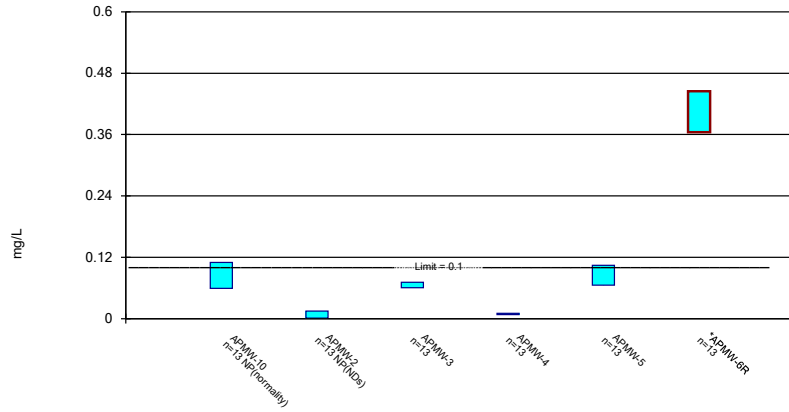
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/4/2021 6:35 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

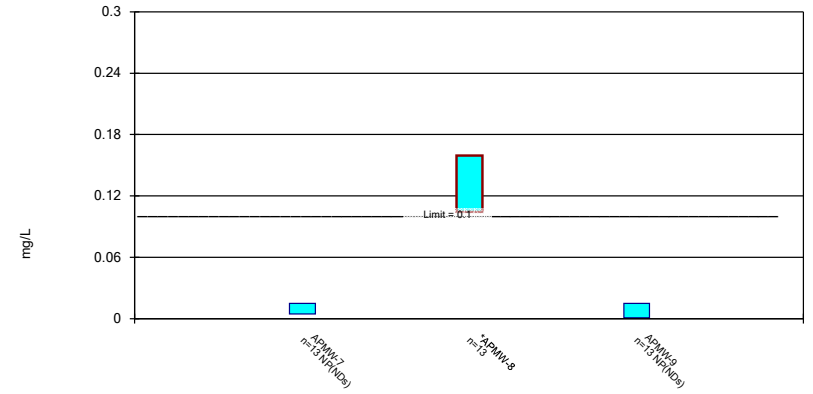
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/4/2021 6:35 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

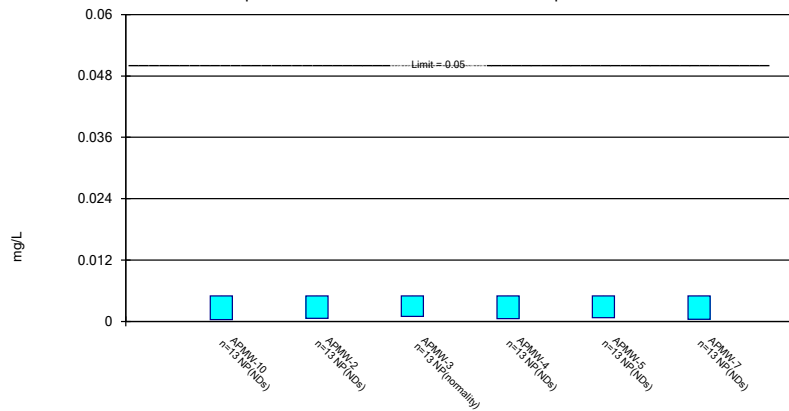
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/4/2021 6:35 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

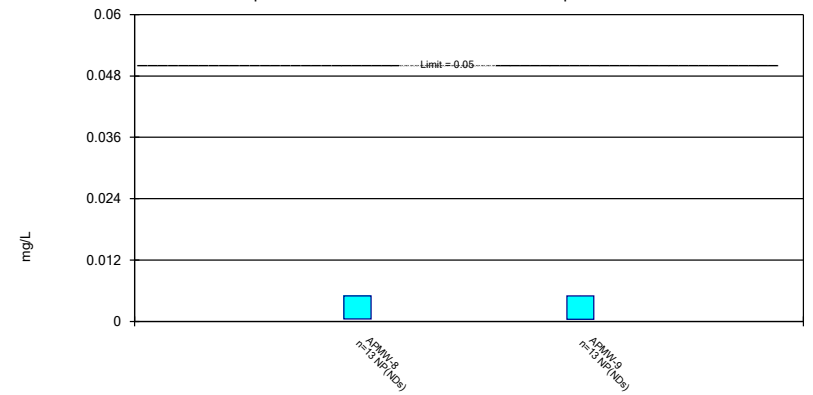
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 5/4/2021 6:35 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

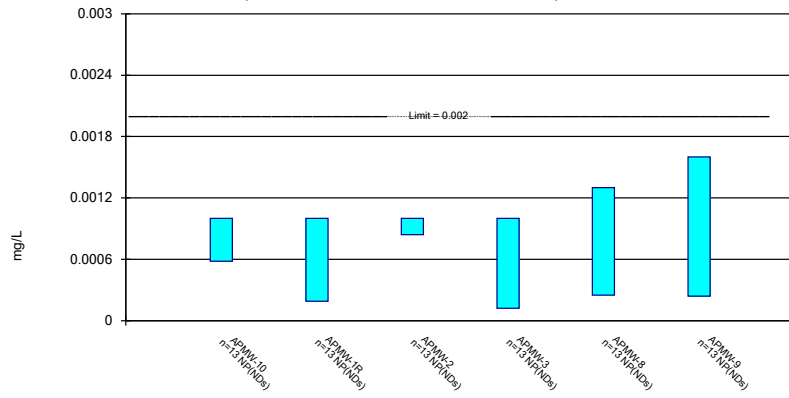
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 5/4/2021 6:35 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

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



Constituent: Thallium Analysis Run 5/4/2021 6:35 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Outlier Summary

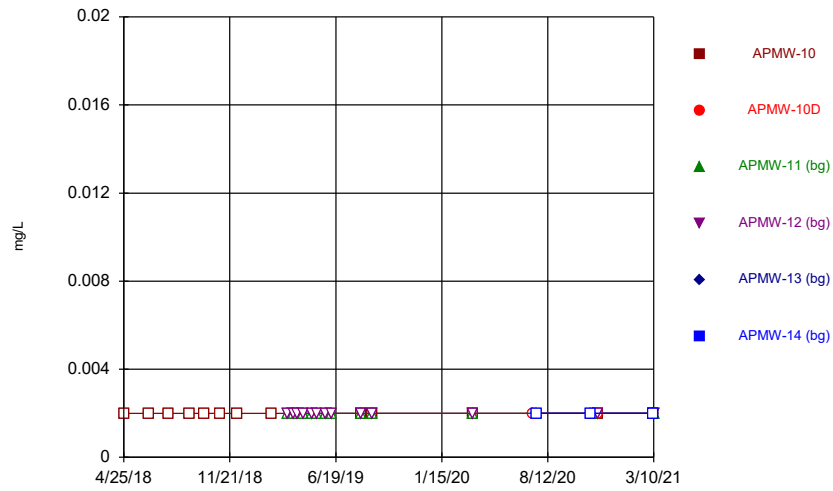
Outlier Summary

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 5/3/2021, 2:31 PM

	APMW-2 Fluoride (mg/L)	APMW-5 Fluoride (mg/L)	APMW-9 Fluoride (mg/L)	APMW-7 Lithium (mg/L)	APMW-9 Lithium (mg/L)
11/1/2018					0.018 (o)
11/2/2018				0.014 (o)	
12/6/2018		1.4 (o)	0.21 (o)		
12/7/2018	4.3 (o)				

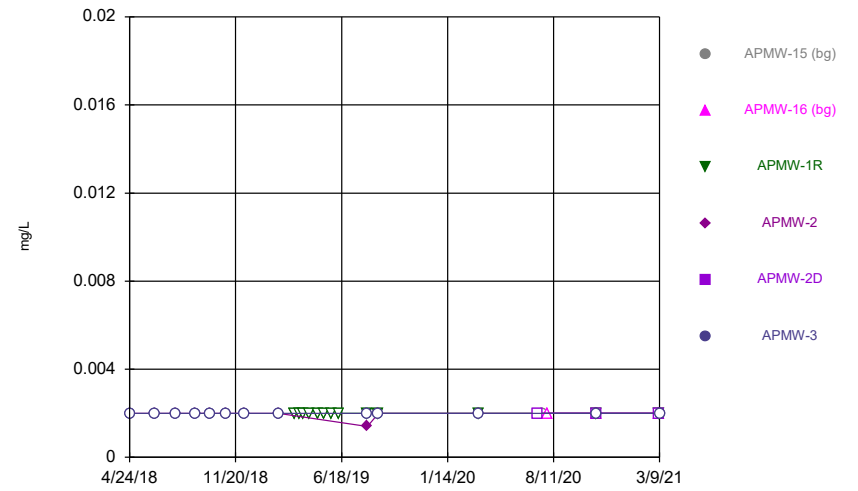
Time Series

Time Series



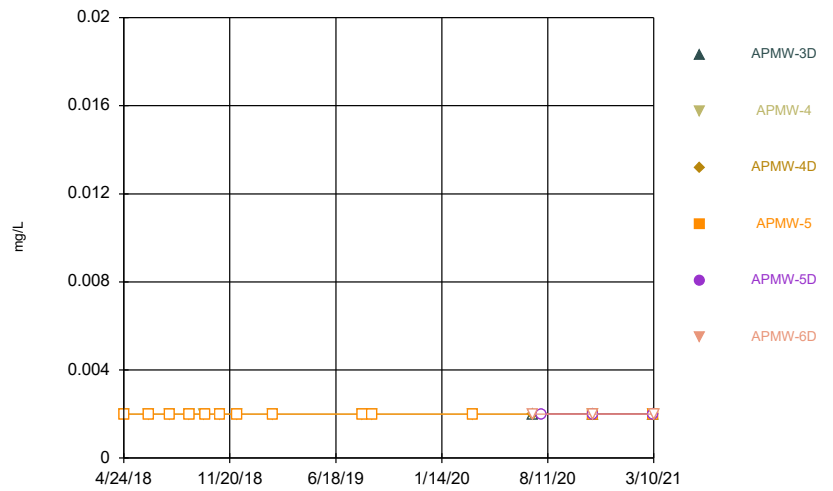
Constituent: Antimony Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



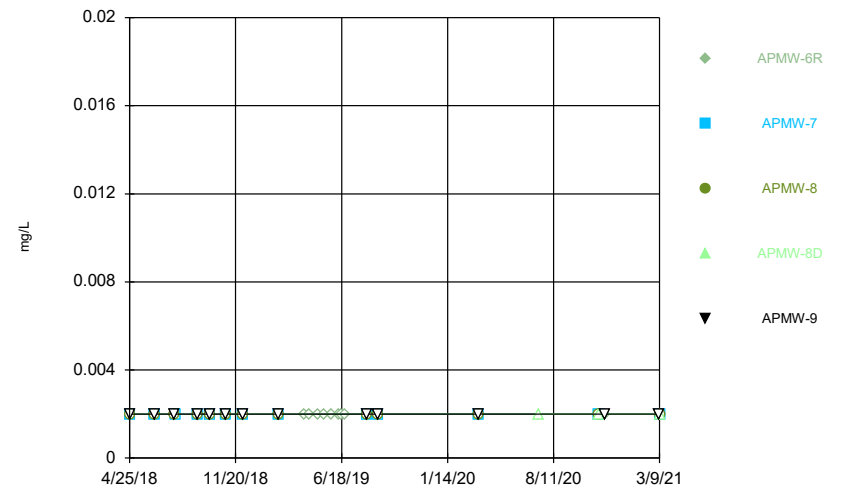
Constituent: Antimony Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



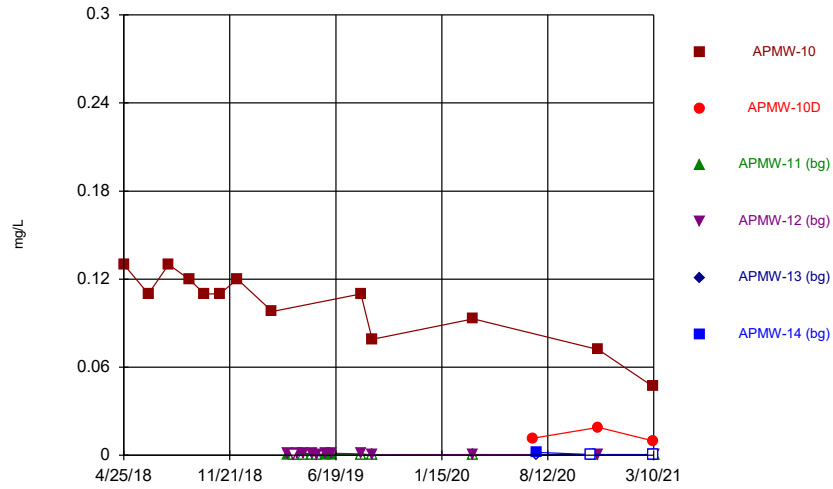
Constituent: Antimony Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



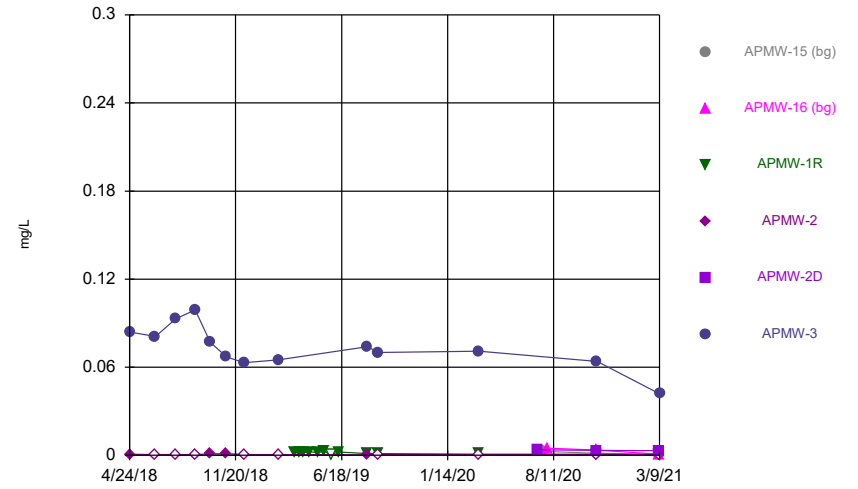
Constituent: Antimony Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



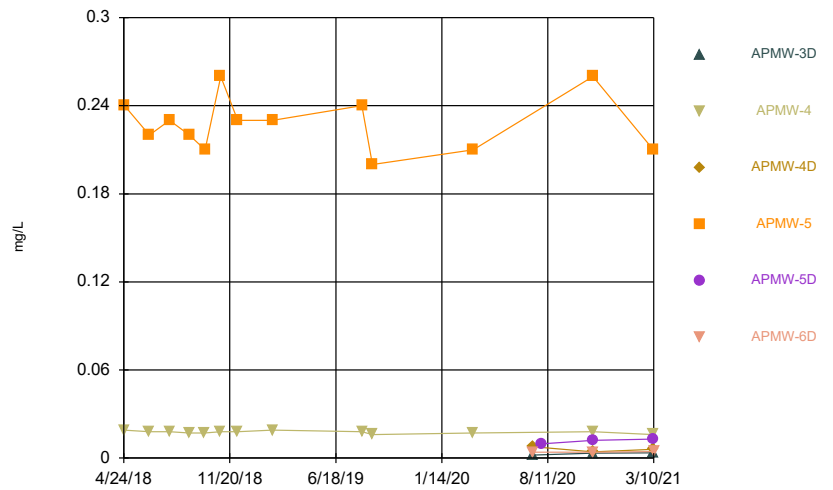
Constituent: Arsenic Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



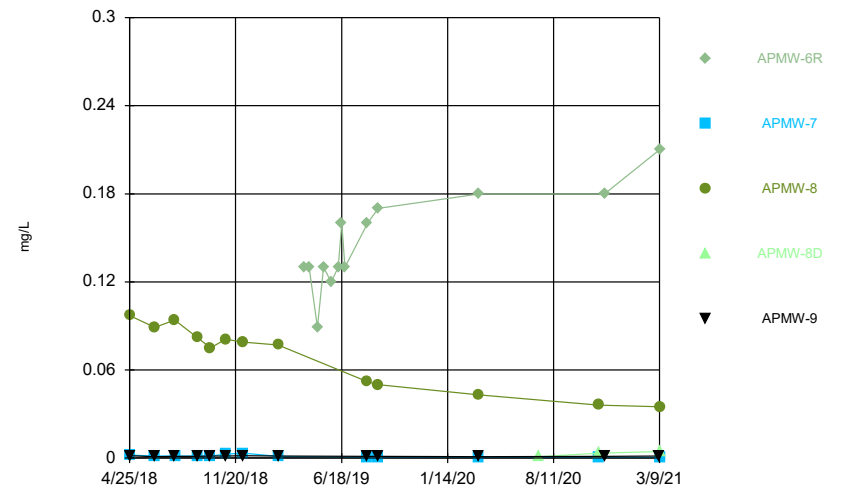
Constituent: Arsenic Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



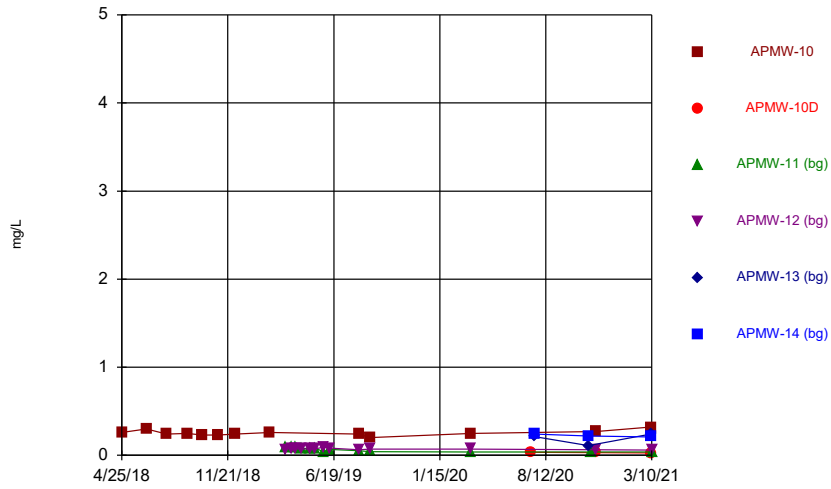
Constituent: Arsenic Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



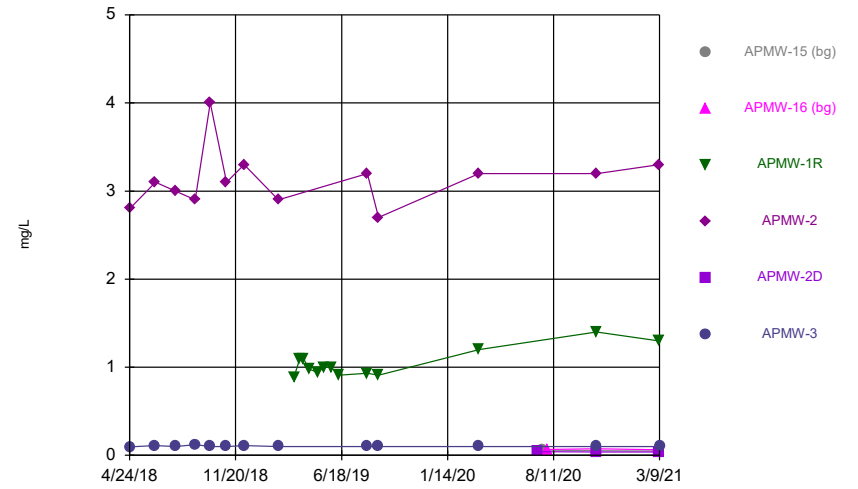
Constituent: Arsenic Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



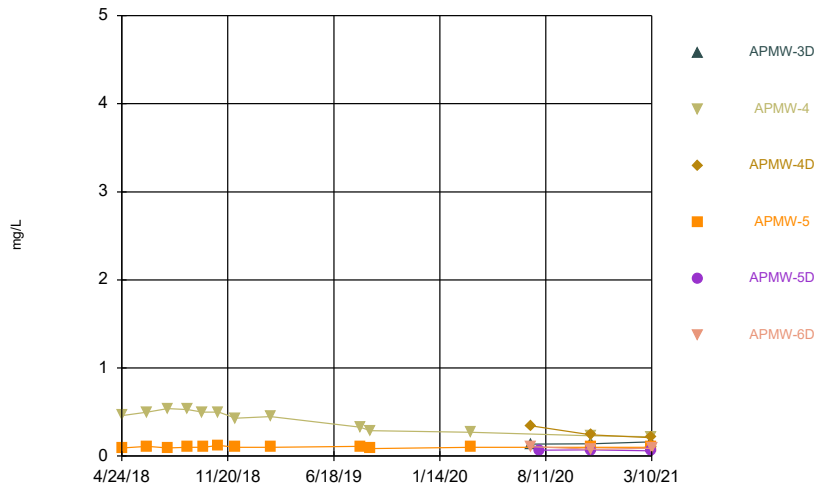
Constituent: Barium Analysis Run 5/3/2021 2:25 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



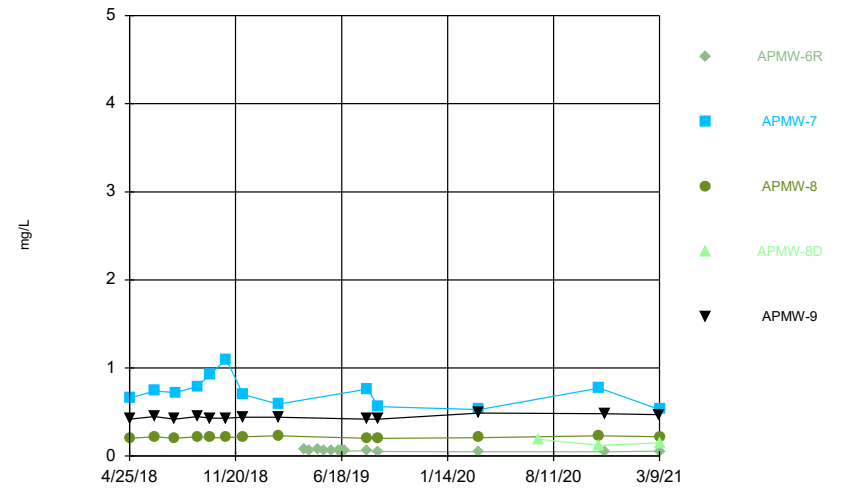
Constituent: Barium Analysis Run 5/3/2021 2:25 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



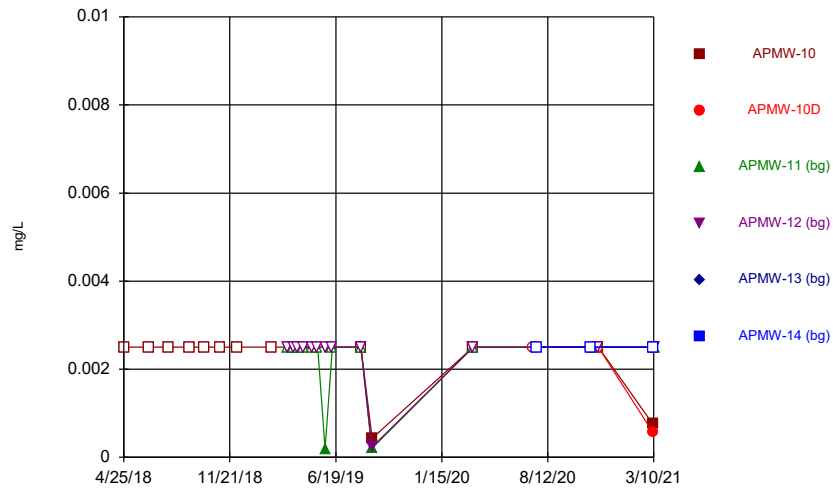
Constituent: Barium Analysis Run 5/3/2021 2:25 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



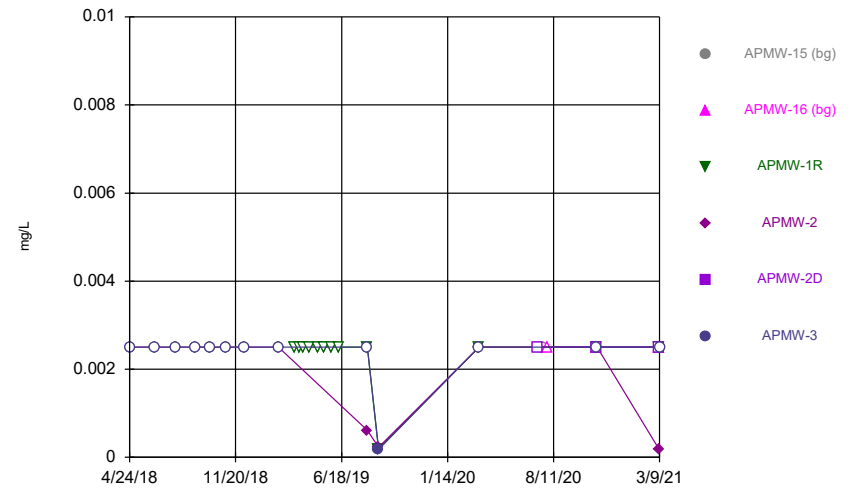
Constituent: Barium Analysis Run 5/3/2021 2:25 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



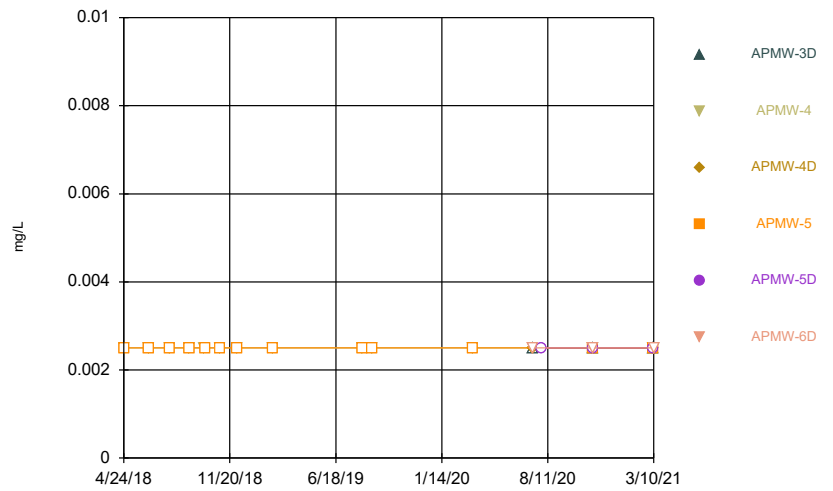
Constituent: Beryllium Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



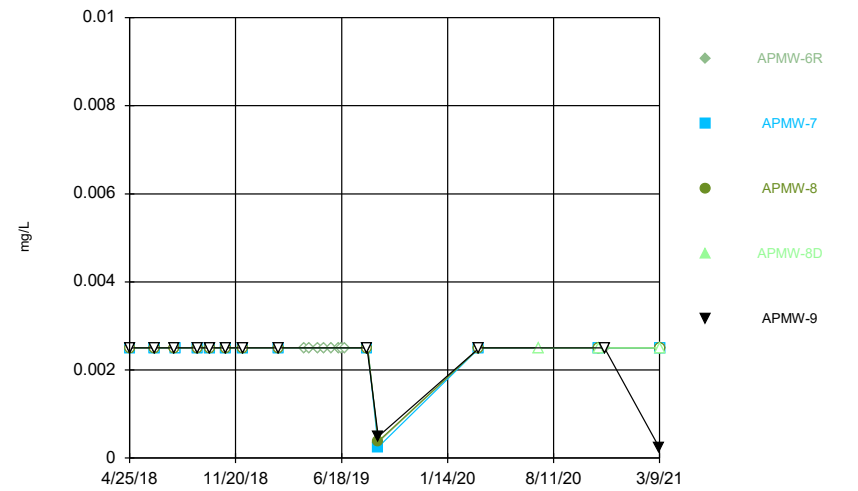
Constituent: Beryllium Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



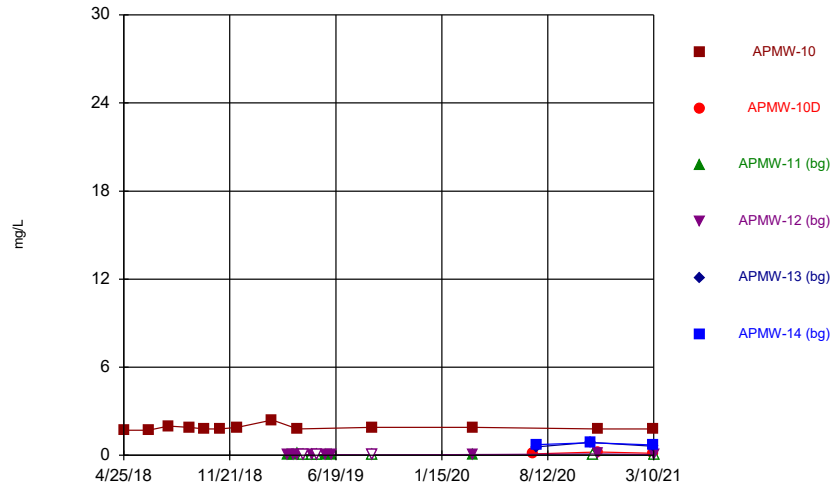
Constituent: Beryllium Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



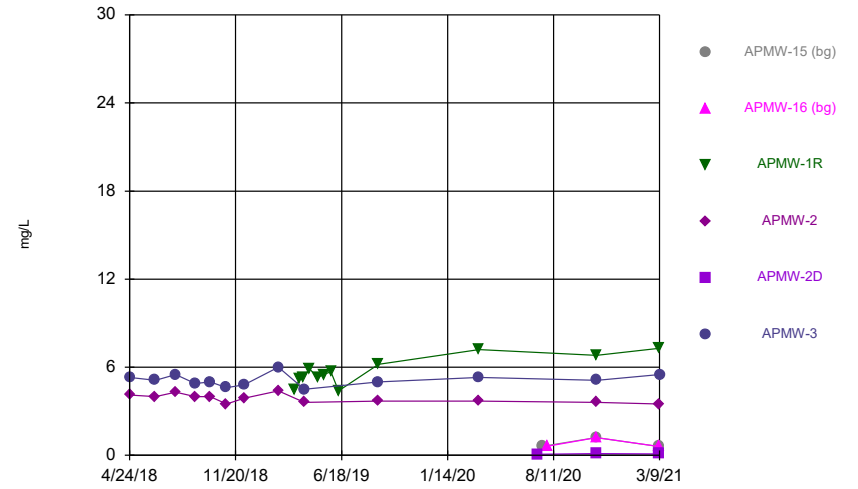
Constituent: Beryllium Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



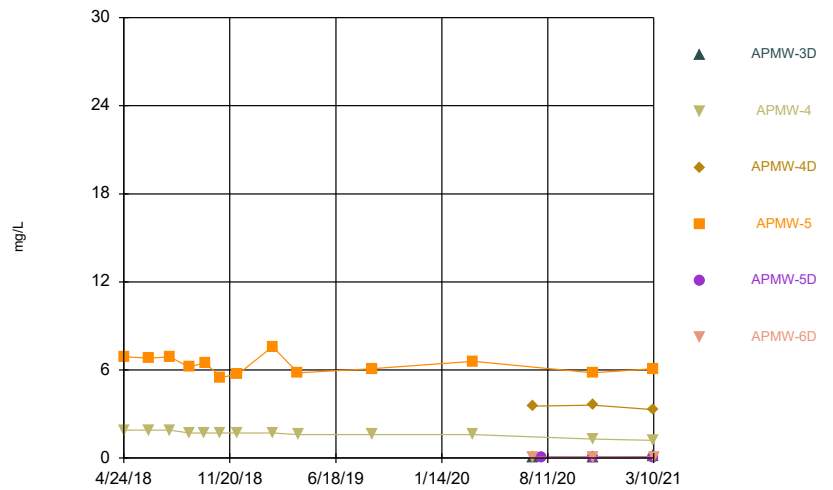
Constituent: Boron Analysis Run 5/3/2021 2:25 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



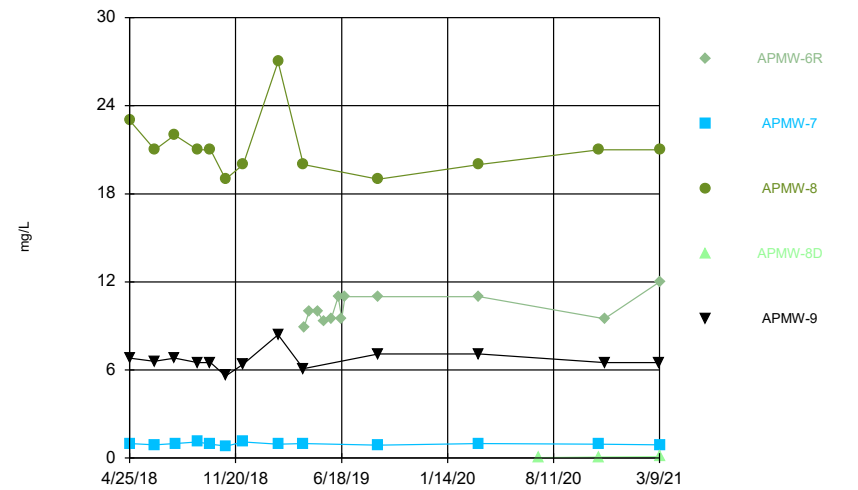
Constituent: Boron Analysis Run 5/3/2021 2:25 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



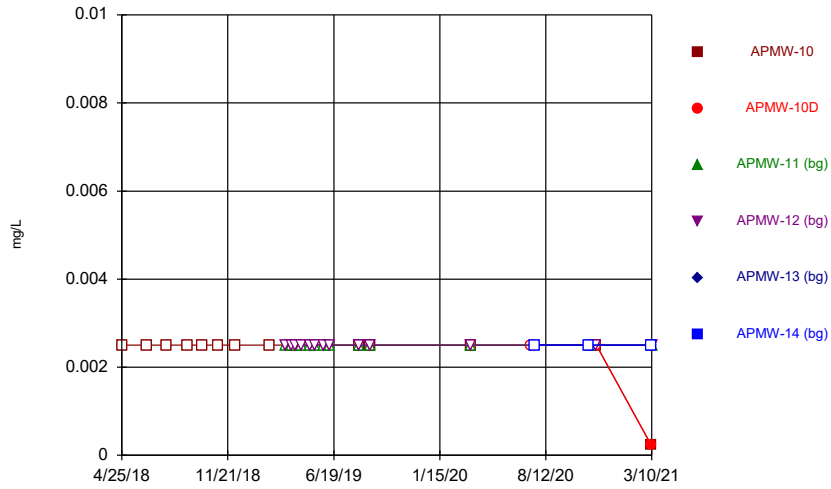
Constituent: Boron Analysis Run 5/3/2021 2:25 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



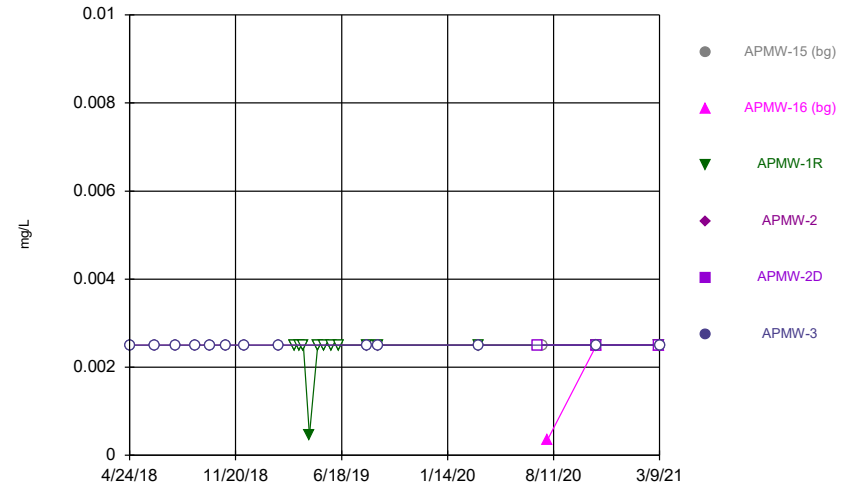
Constituent: Boron Analysis Run 5/3/2021 2:25 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



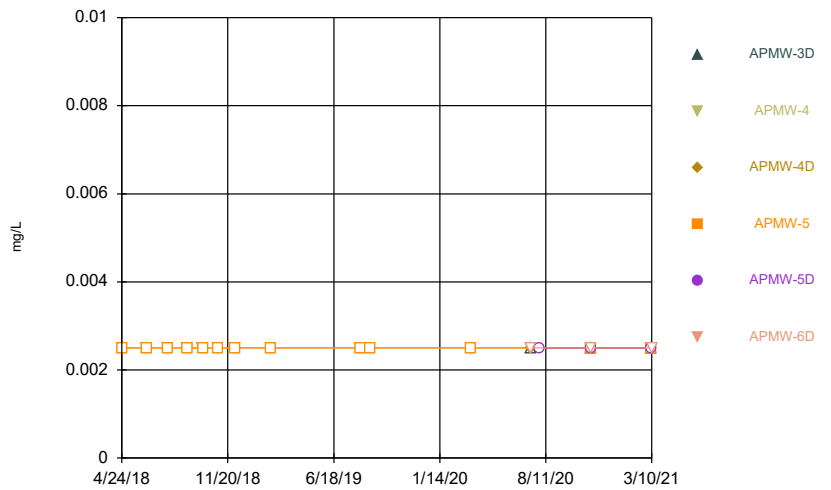
Constituent: Cadmium Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



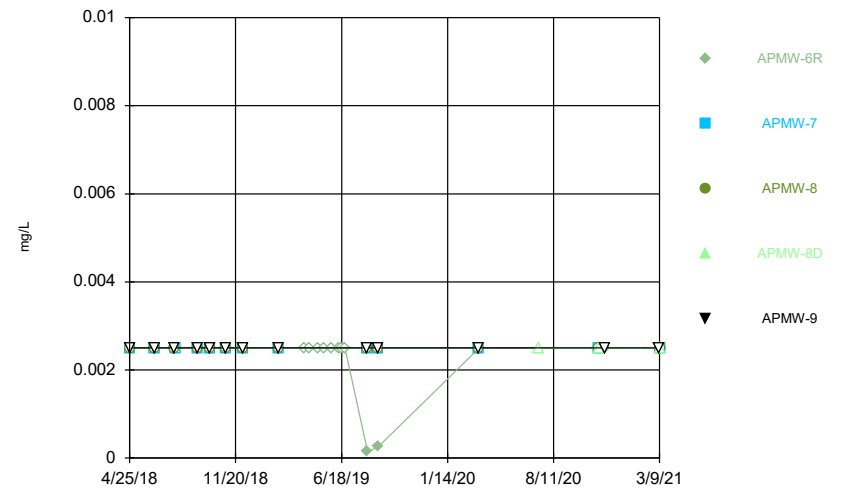
Constituent: Cadmium Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



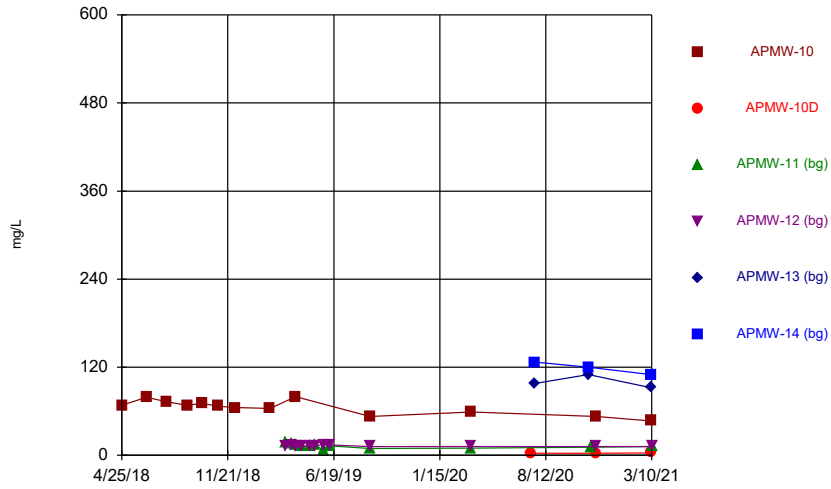
Constituent: Cadmium Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



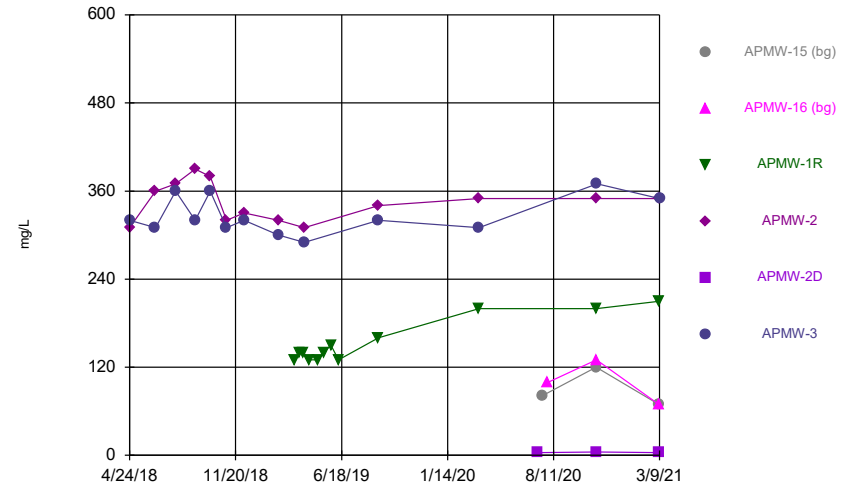
Constituent: Cadmium Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



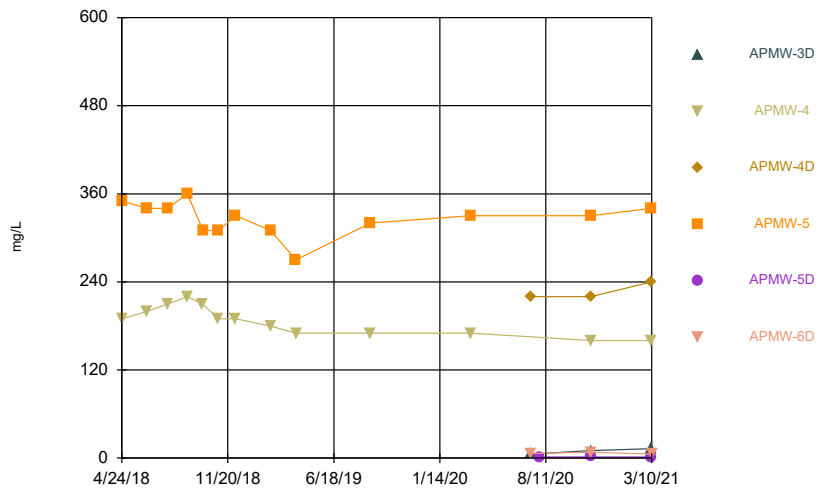
Constituent: Calcium Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



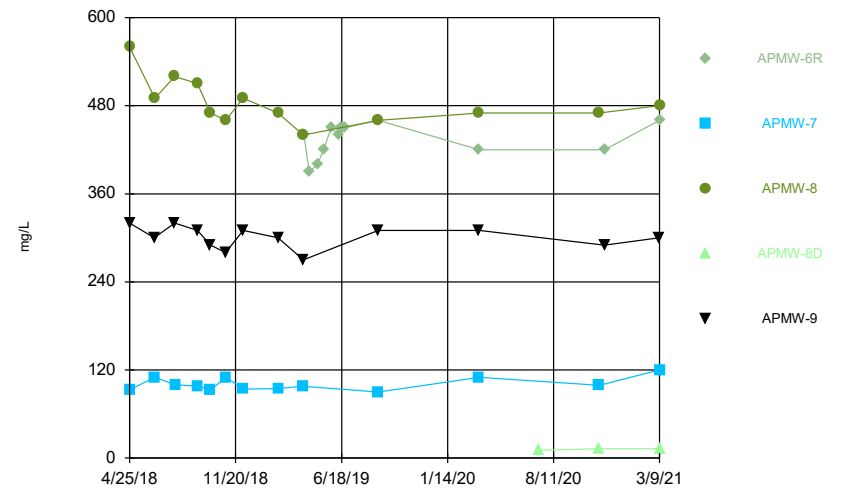
Constituent: Calcium Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



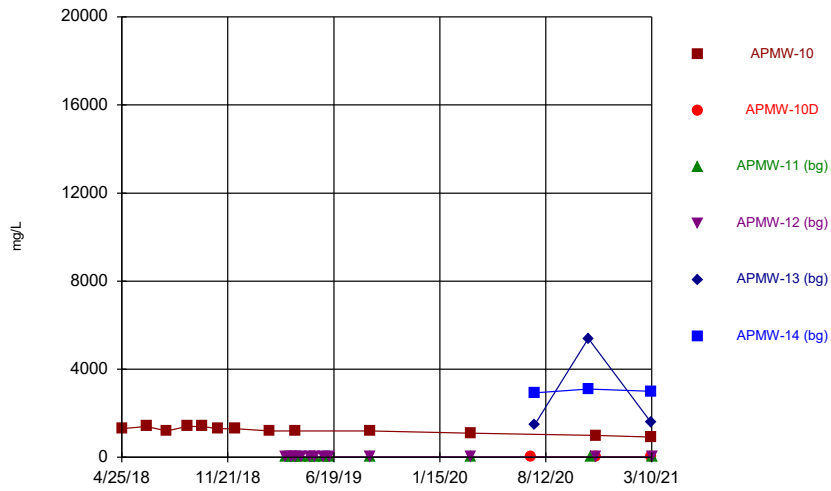
Constituent: Calcium Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



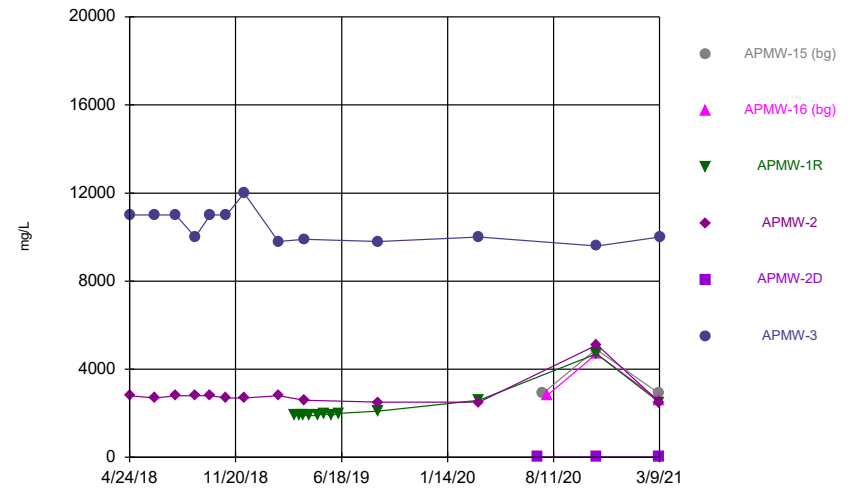
Constituent: Calcium Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



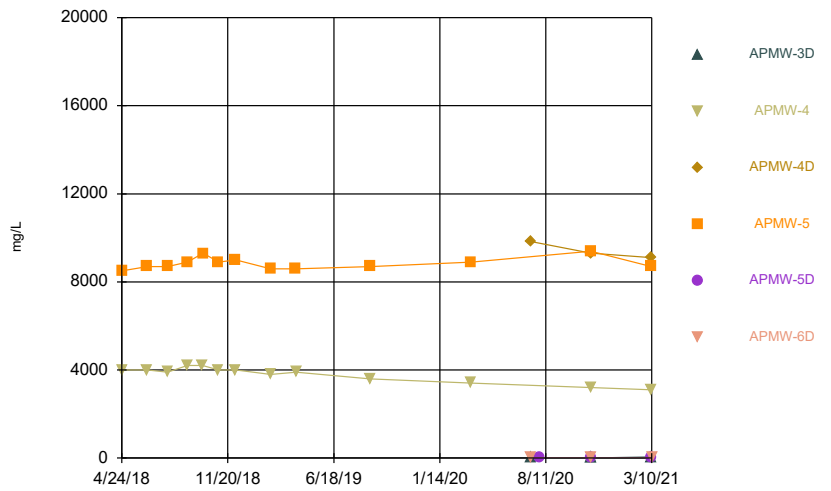
Constituent: Chloride Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



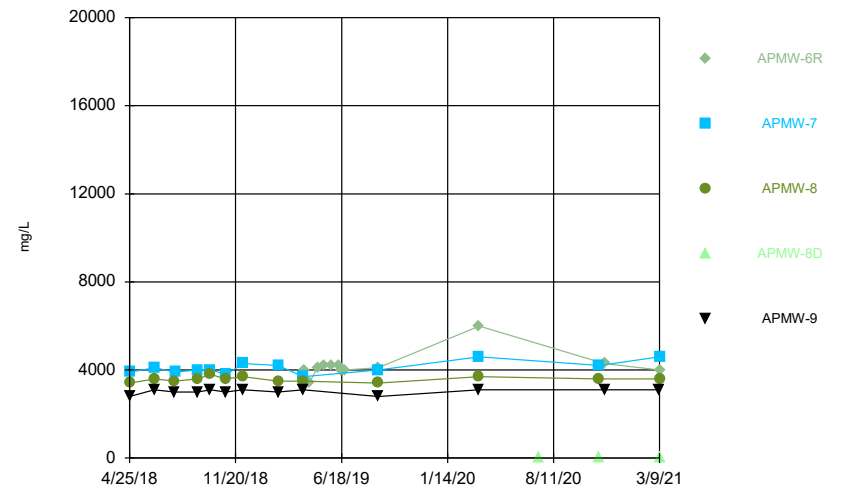
Constituent: Chloride Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



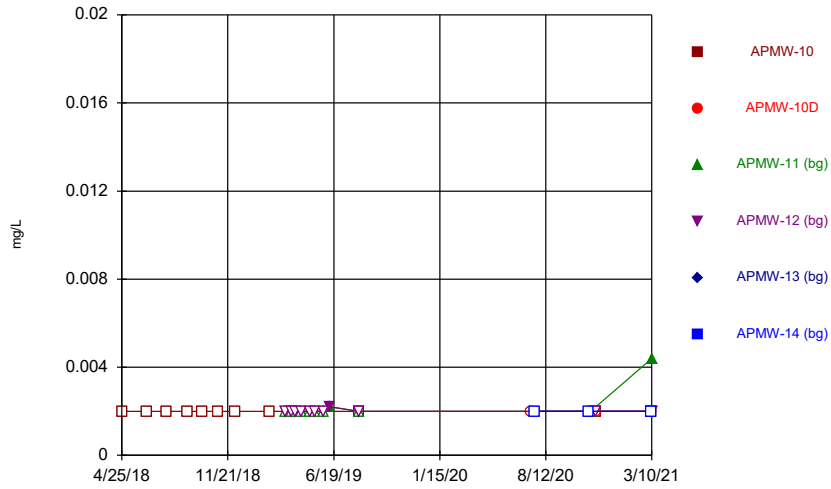
Constituent: Chloride Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



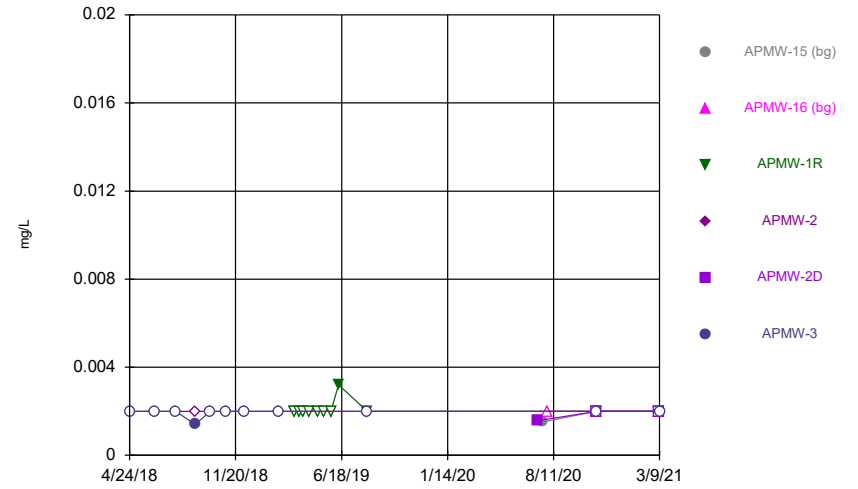
Constituent: Chloride Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



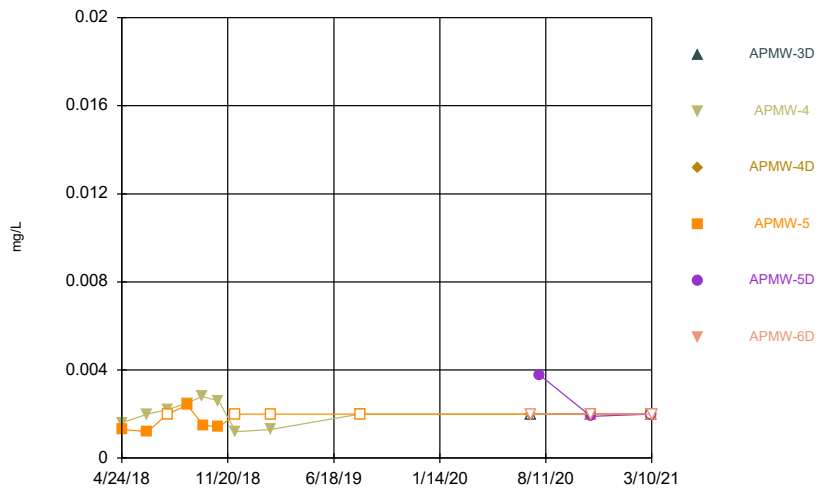
Constituent: Chromium Analysis Run 5/3/2021 2:25 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



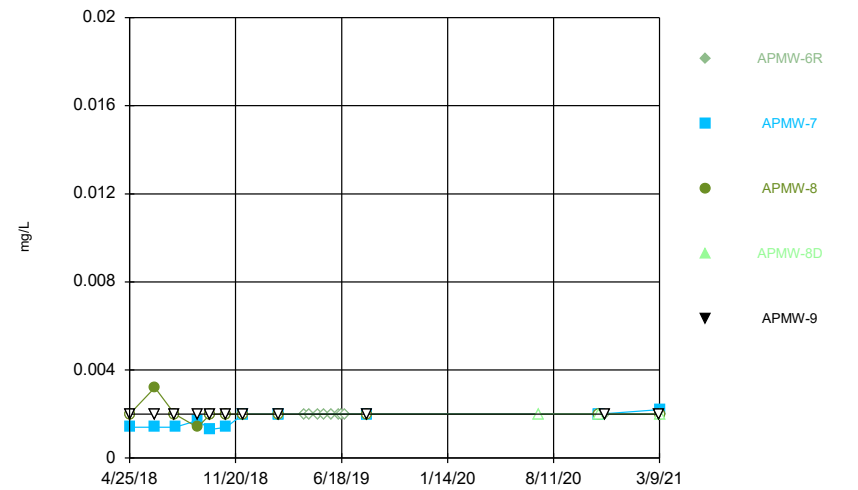
Constituent: Chromium Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



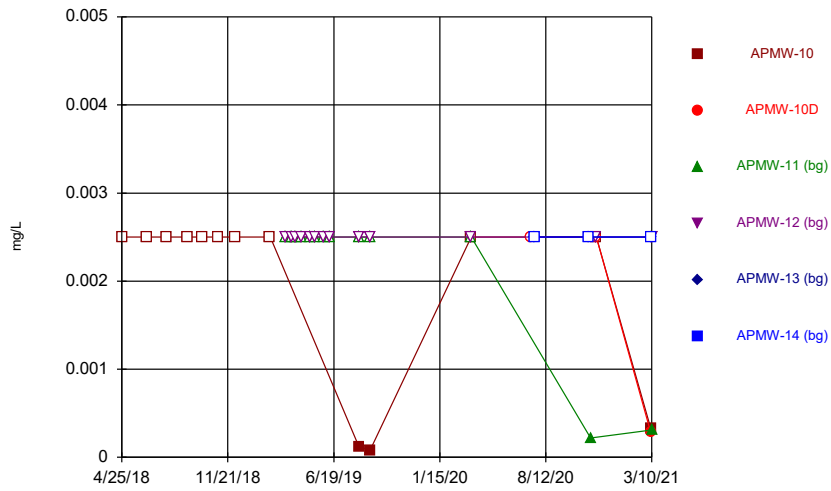
Constituent: Chromium Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



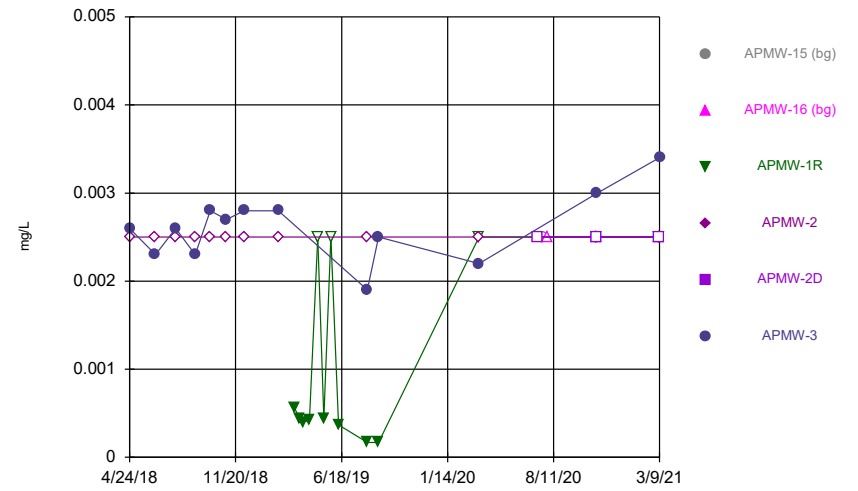
Constituent: Chromium Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



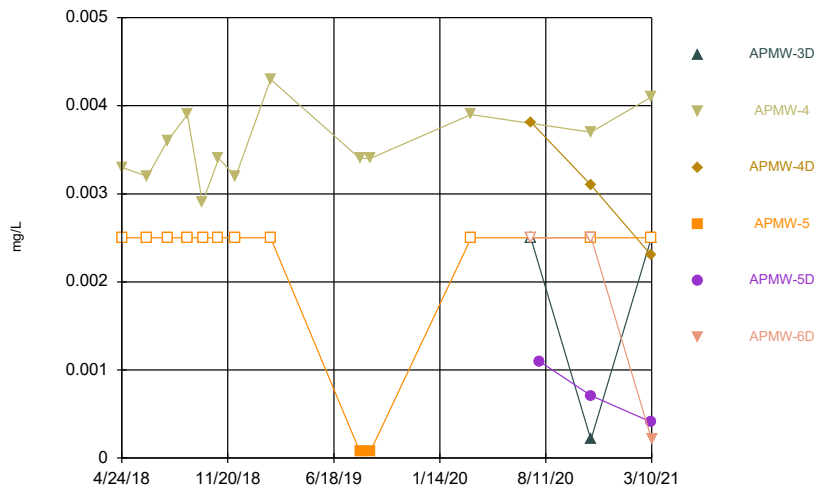
Constituent: Cobalt Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



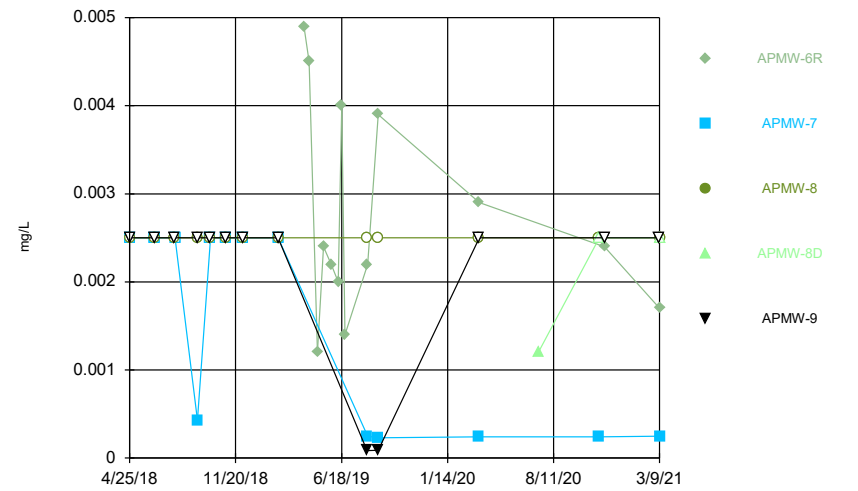
Constituent: Cobalt Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



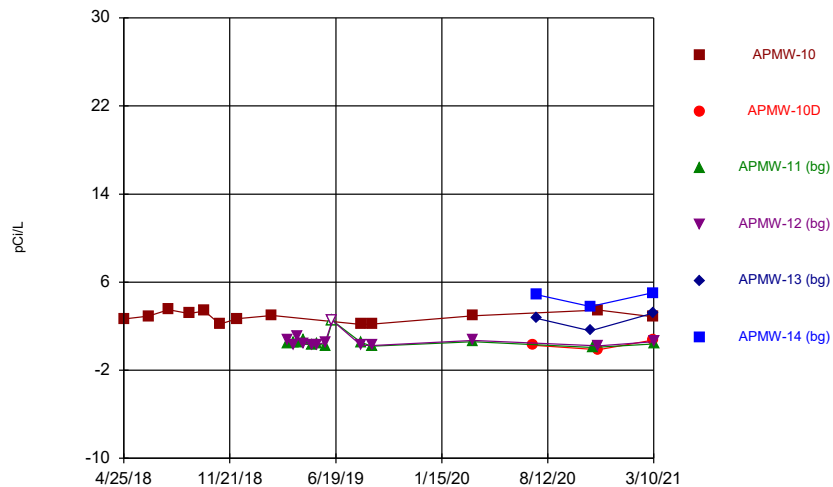
Constituent: Cobalt Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



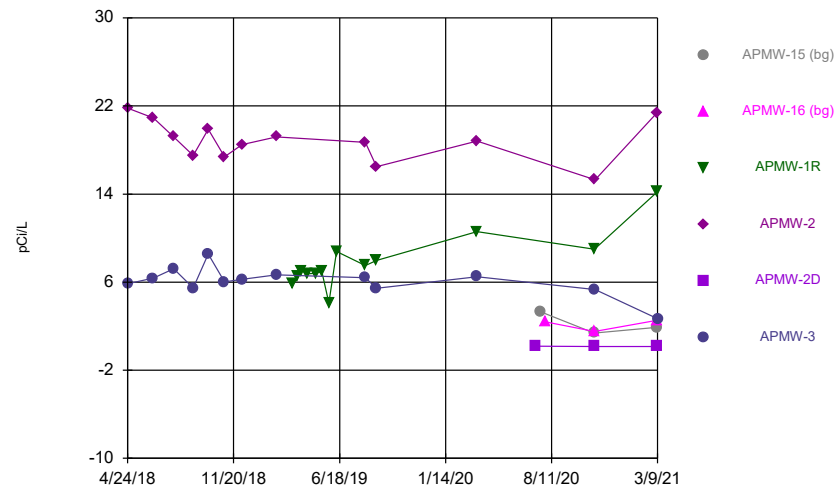
Constituent: Cobalt Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



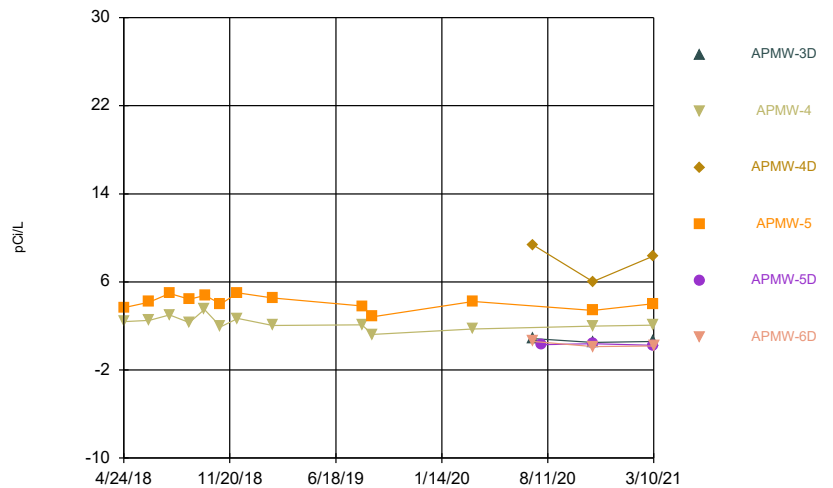
Constituent: Combined Radium 226 + 228 Analysis Run 5/3/2021 2:26 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



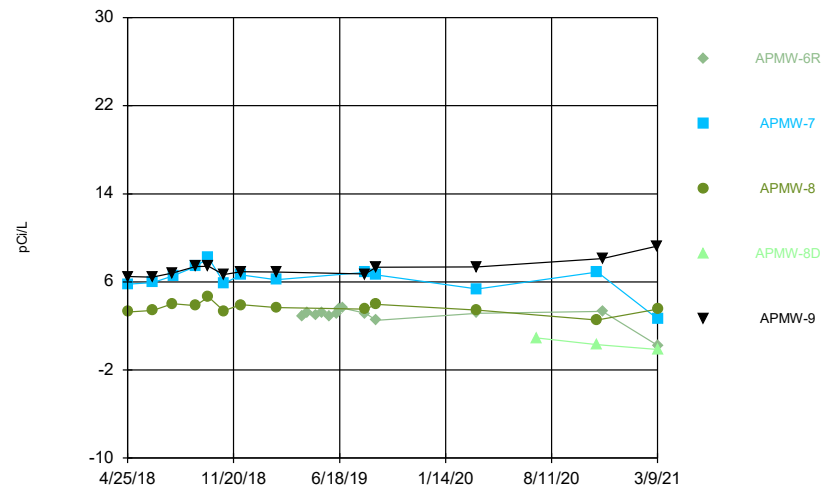
Constituent: Combined Radium 226 + 228 Analysis Run 5/3/2021 2:26 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



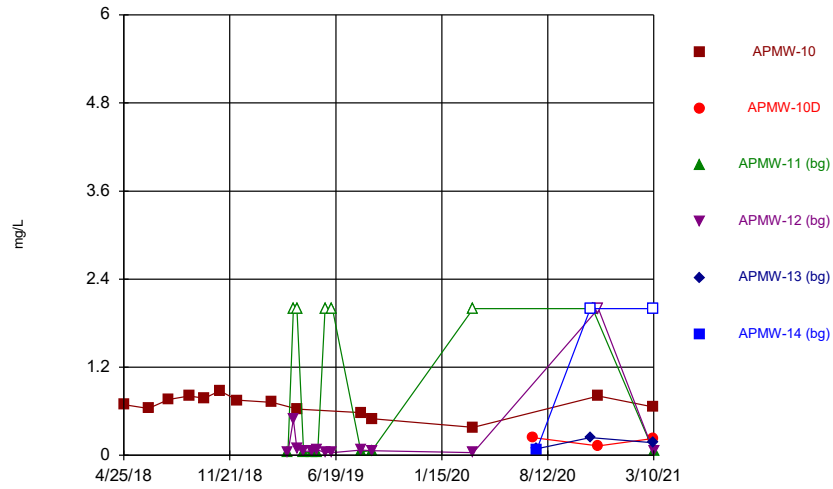
Constituent: Combined Radium 226 + 228 Analysis Run 5/3/2021 2:26 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



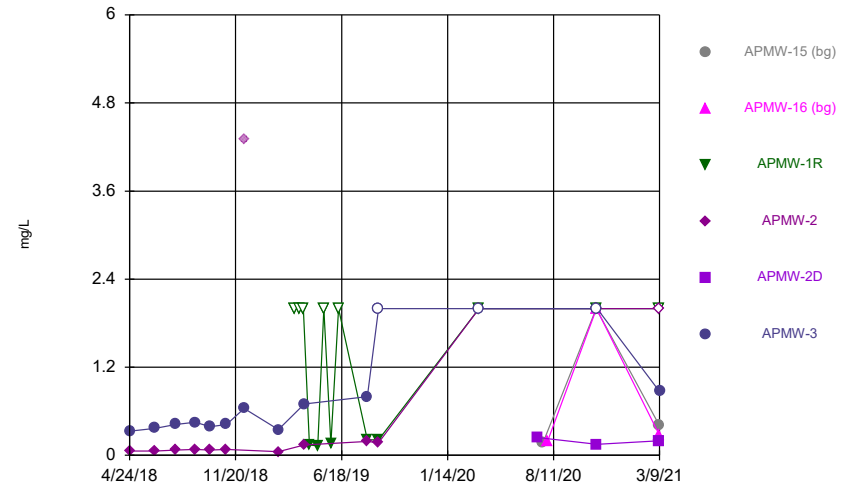
Constituent: Combined Radium 226 + 228 Analysis Run 5/3/2021 2:26 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



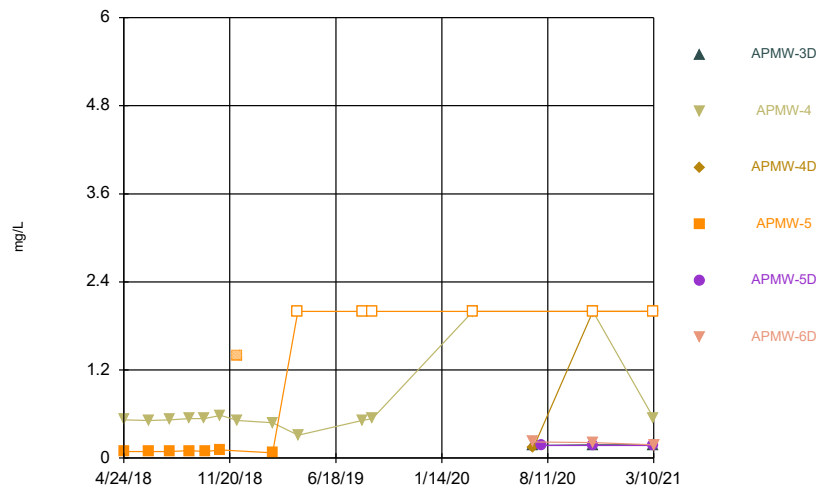
Constituent: Fluoride Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



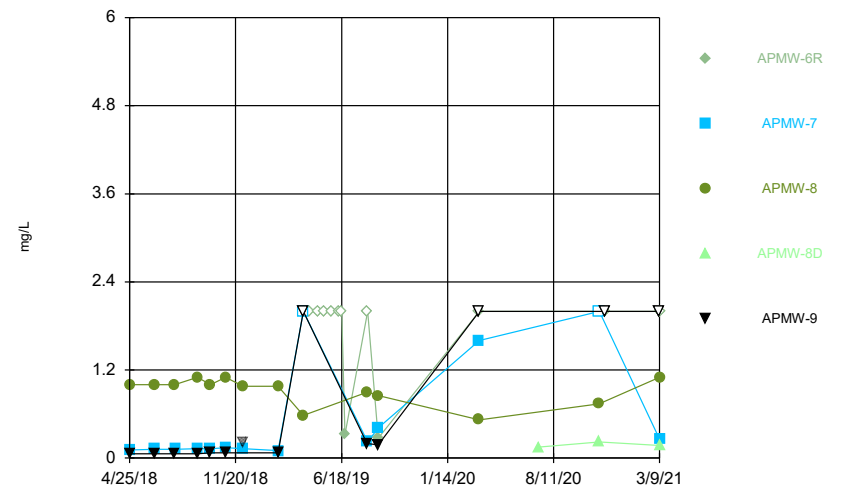
Constituent: Fluoride Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



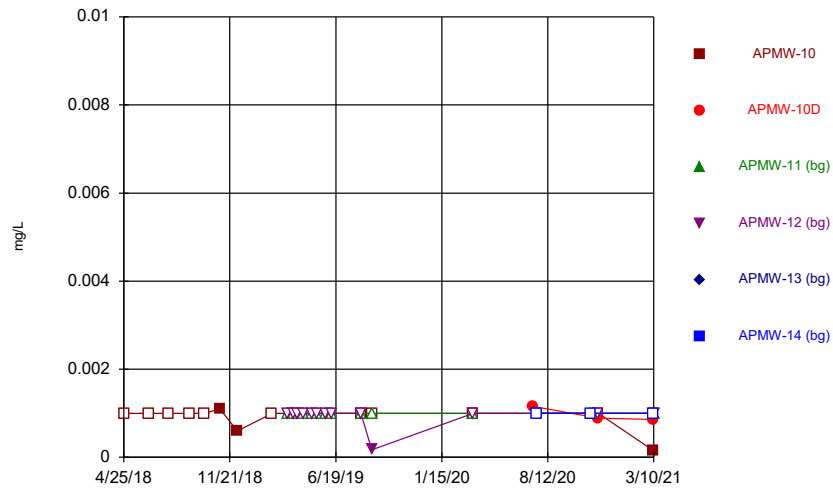
Constituent: Fluoride Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



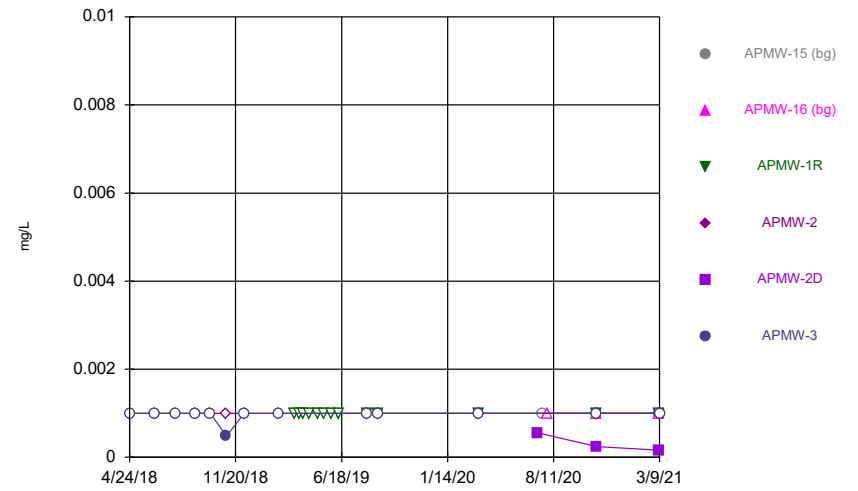
Constituent: Fluoride Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



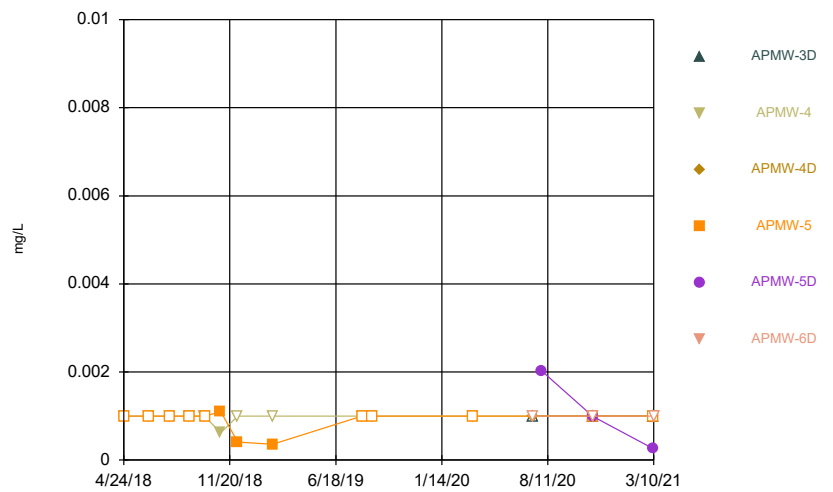
Constituent: Lead Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



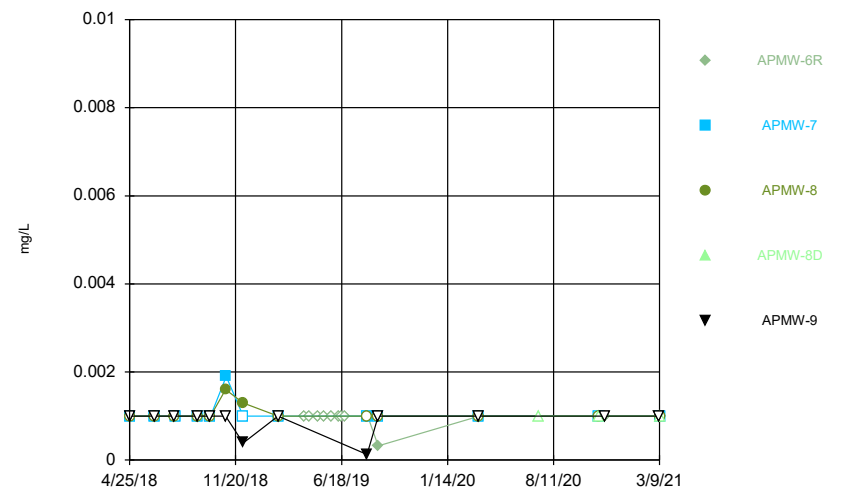
Constituent: Lead Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



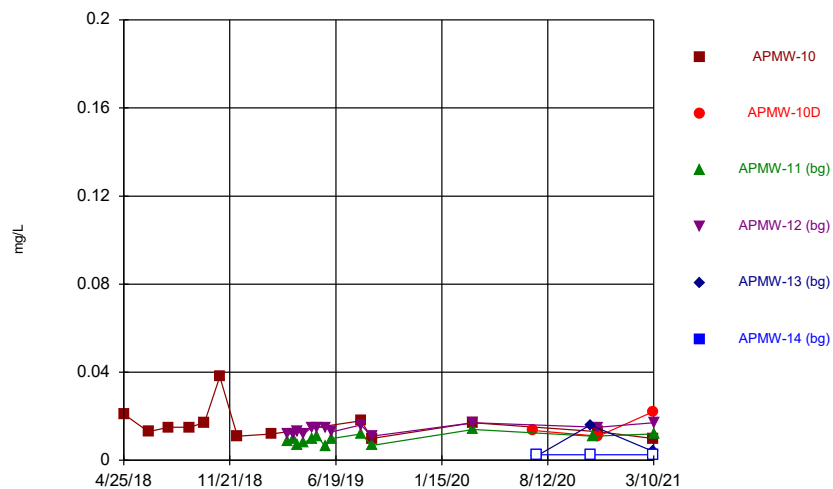
Constituent: Lead Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



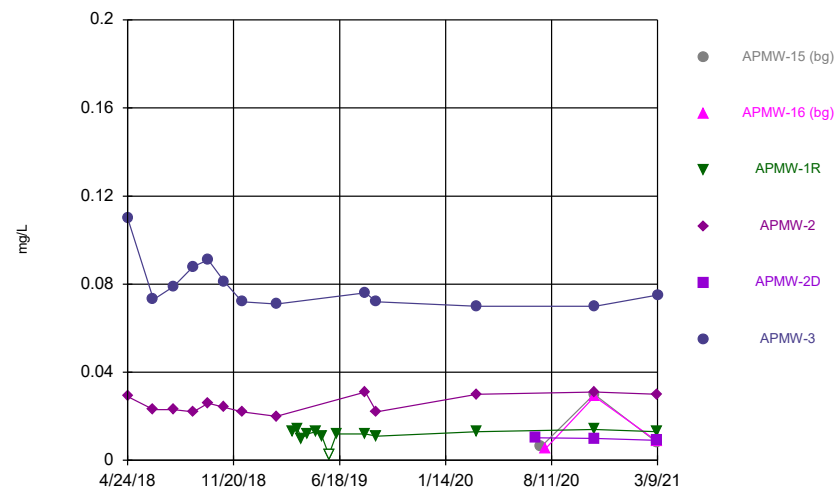
Constituent: Lead Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



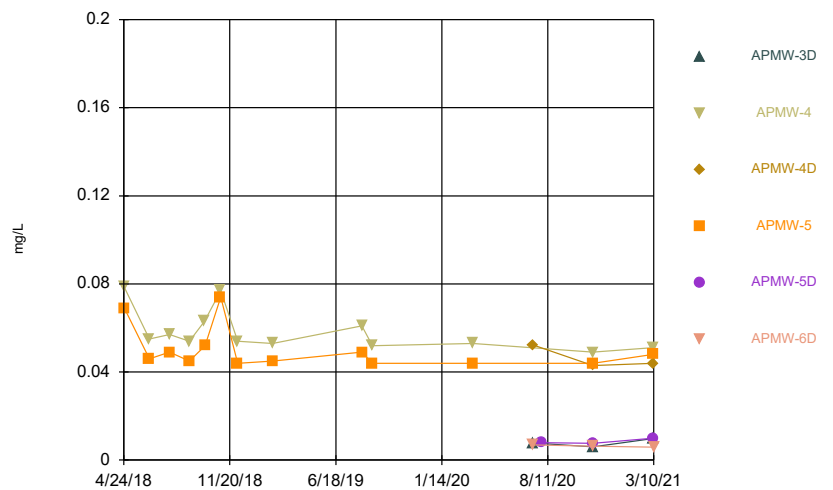
Constituent: Lithium Analysis Run 5/3/2021 2:26 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



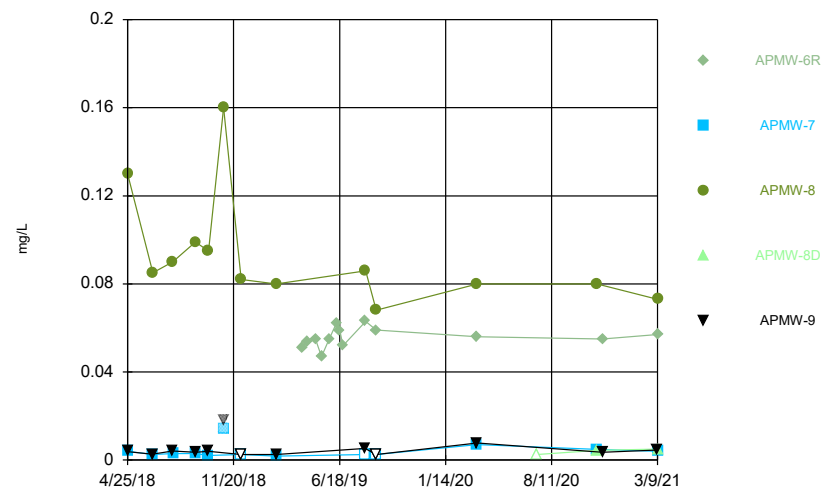
Constituent: Lithium Analysis Run 5/3/2021 2:26 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



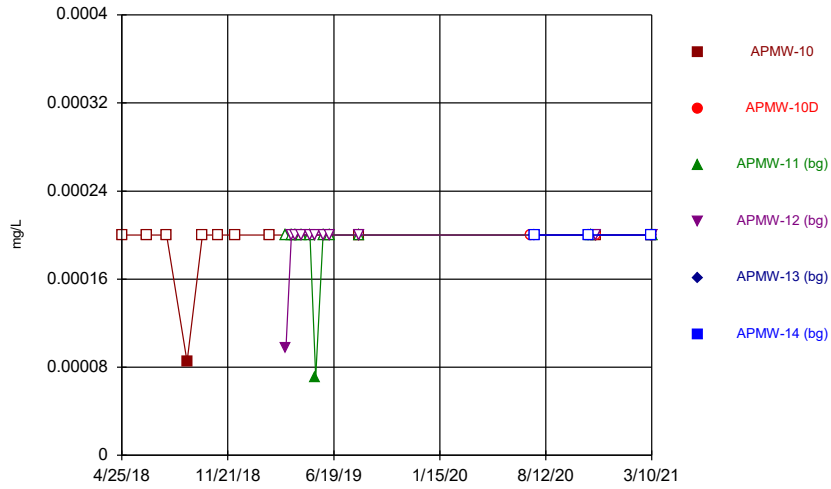
Constituent: Lithium Analysis Run 5/3/2021 2:26 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



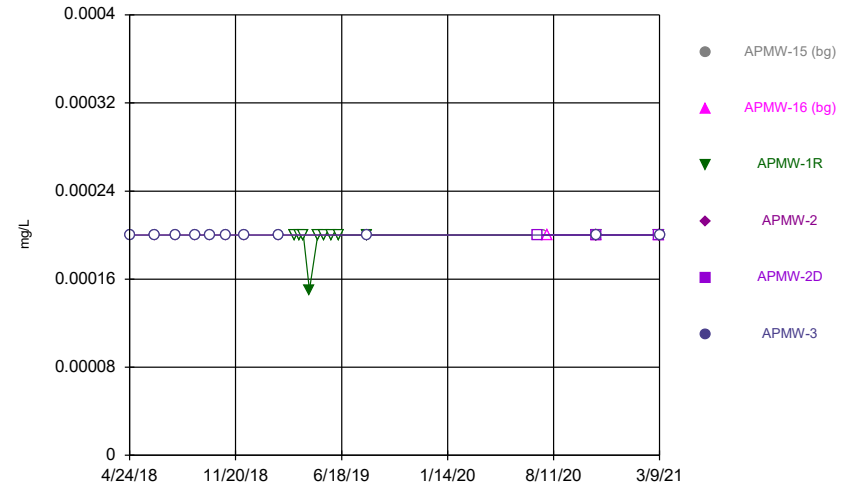
Constituent: Lithium Analysis Run 5/3/2021 2:26 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



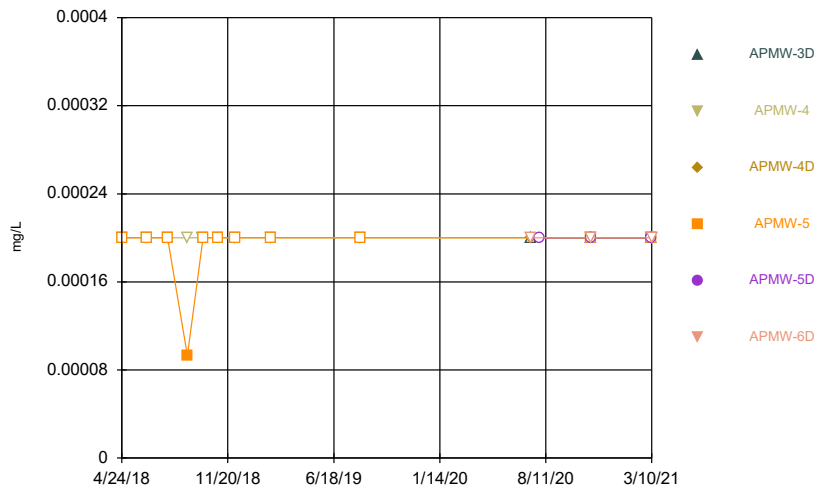
Constituent: Mercury Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



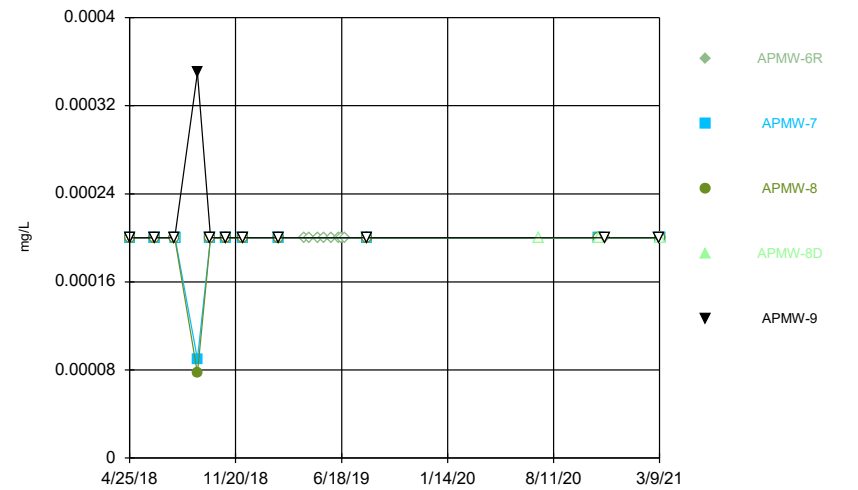
Constituent: Mercury Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



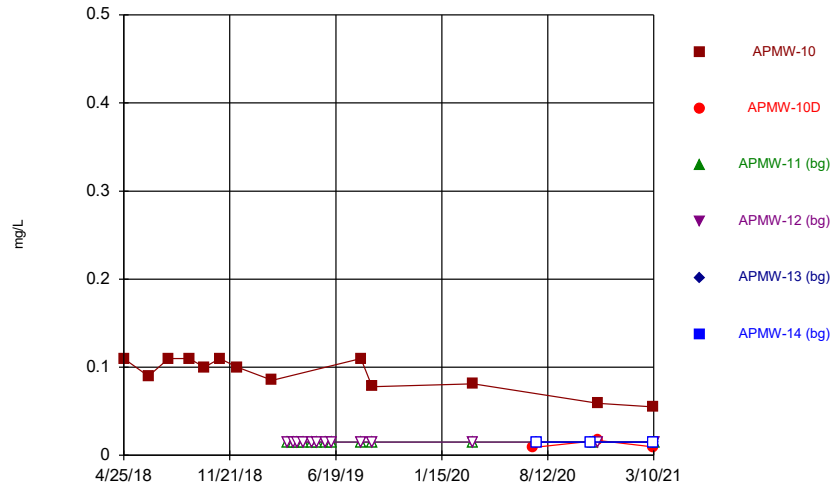
Constituent: Mercury Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



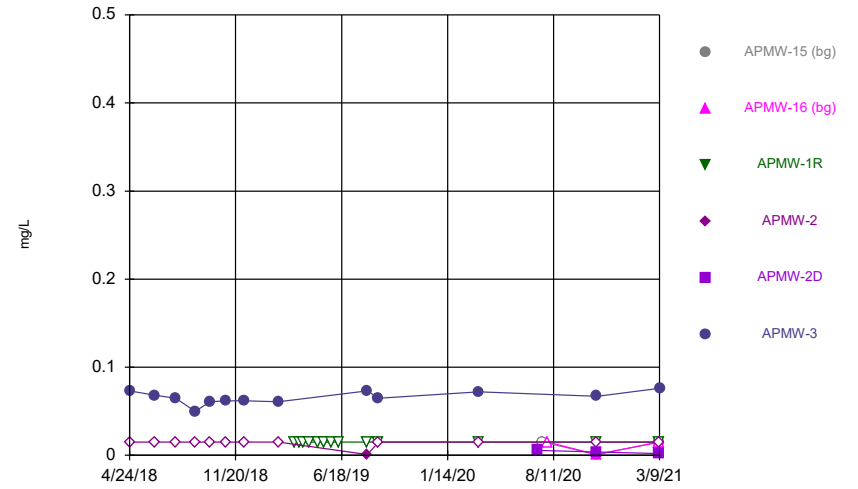
Constituent: Mercury Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



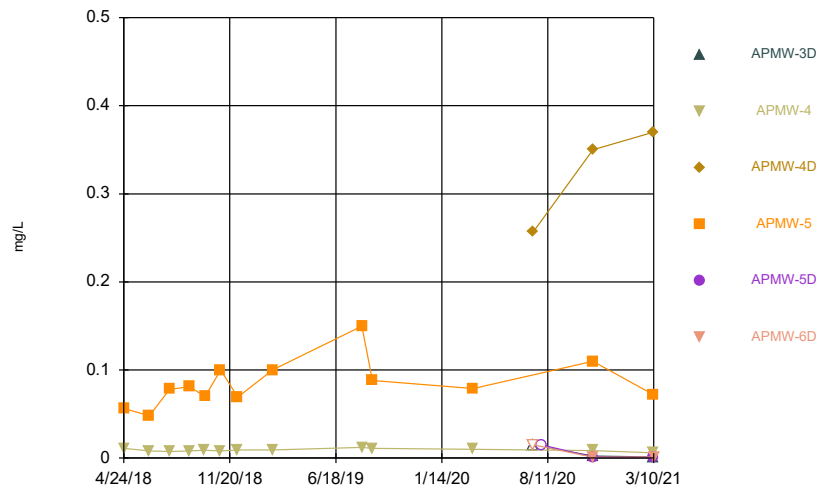
Constituent: Molybdenum Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



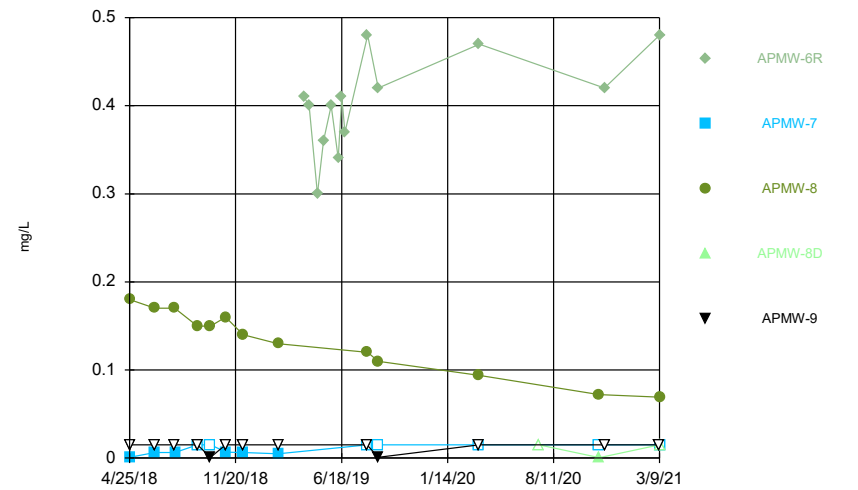
Constituent: Molybdenum Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



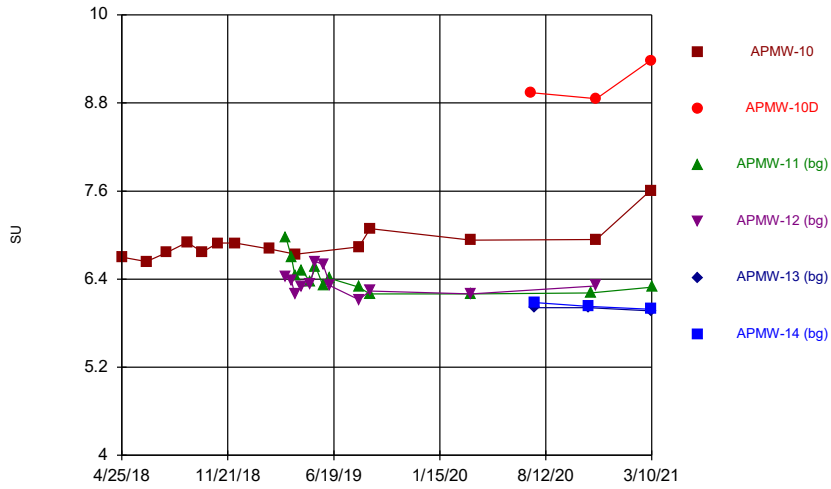
Constituent: Molybdenum Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



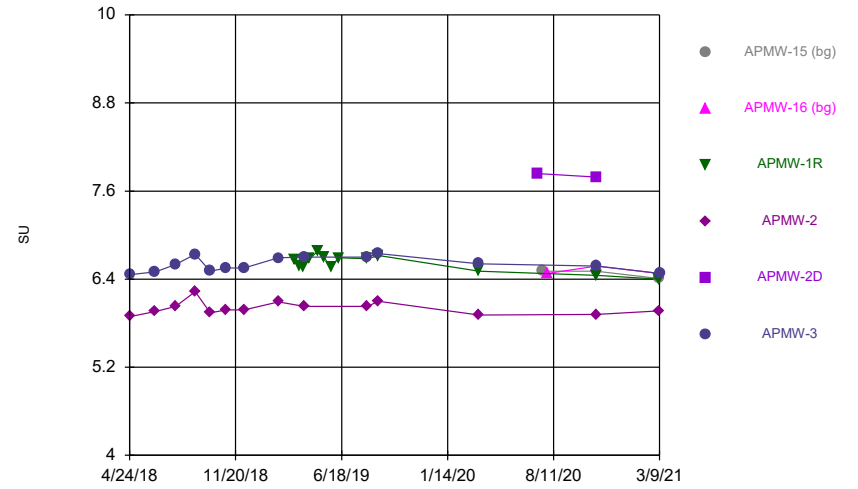
Constituent: Molybdenum Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



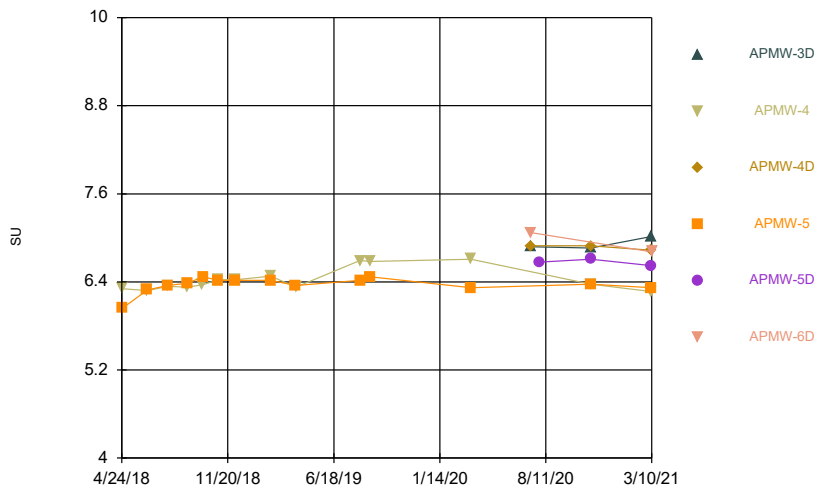
Constituent: pH Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



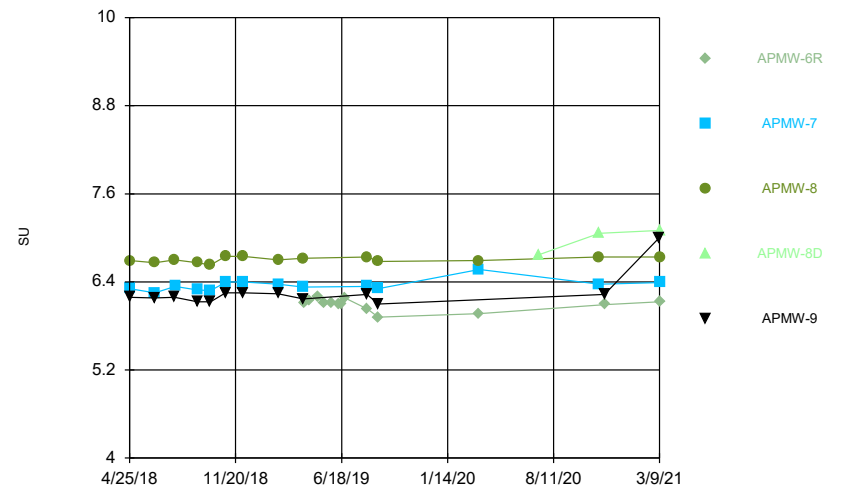
Constituent: pH Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



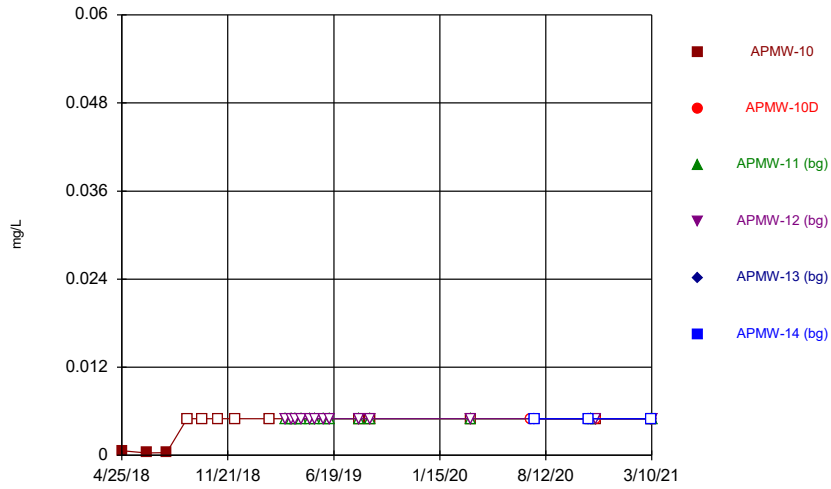
Constituent: pH Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



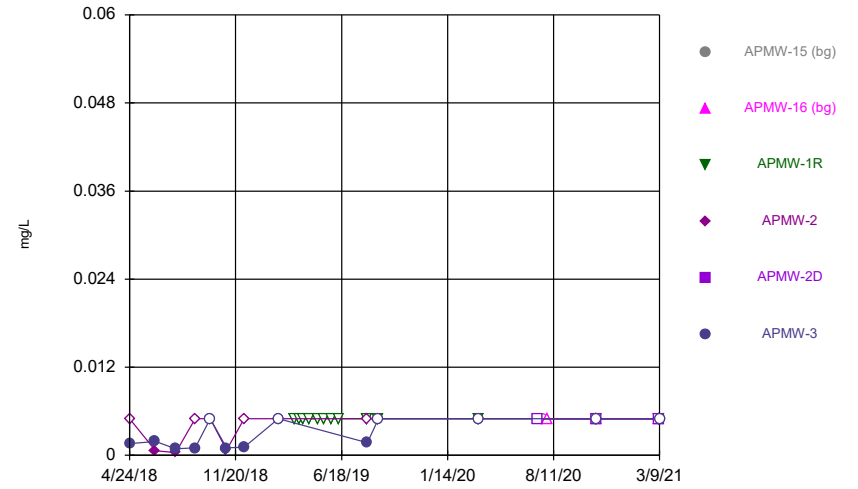
Constituent: pH Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



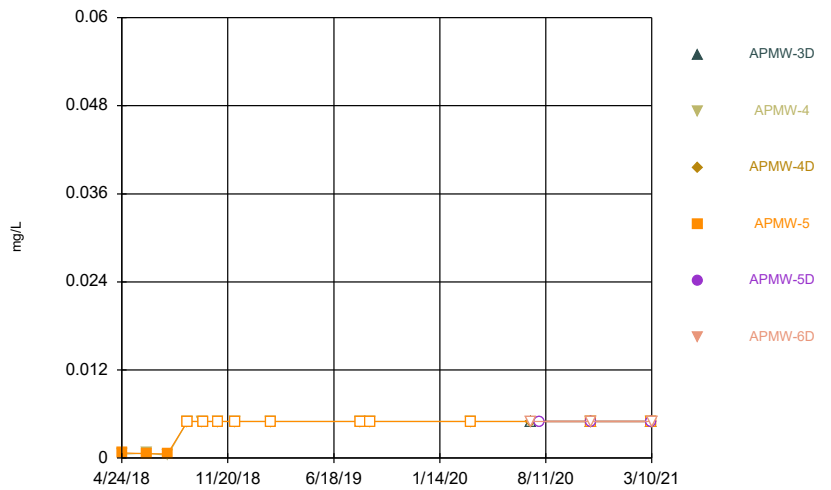
Constituent: Seleniun Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



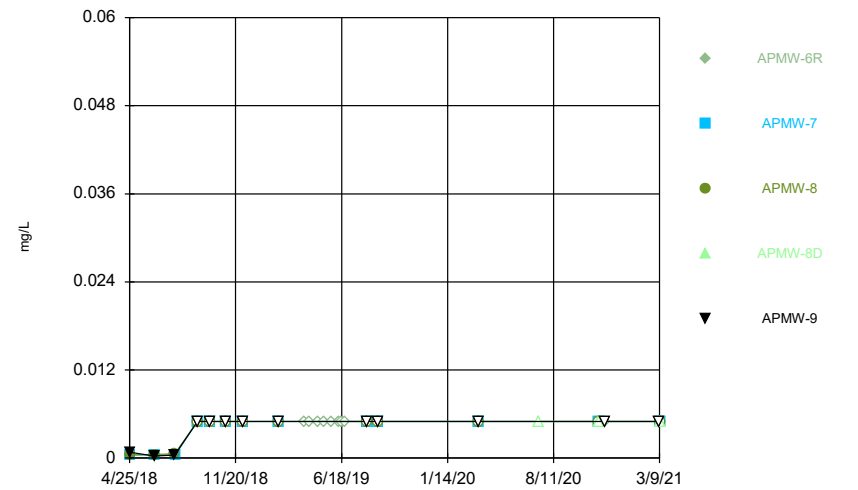
Constituent: Seleniun Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



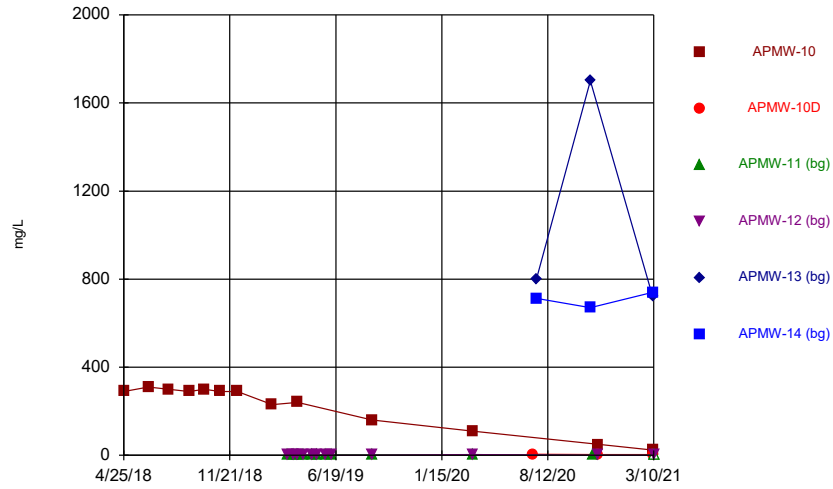
Constituent: Seleniun Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



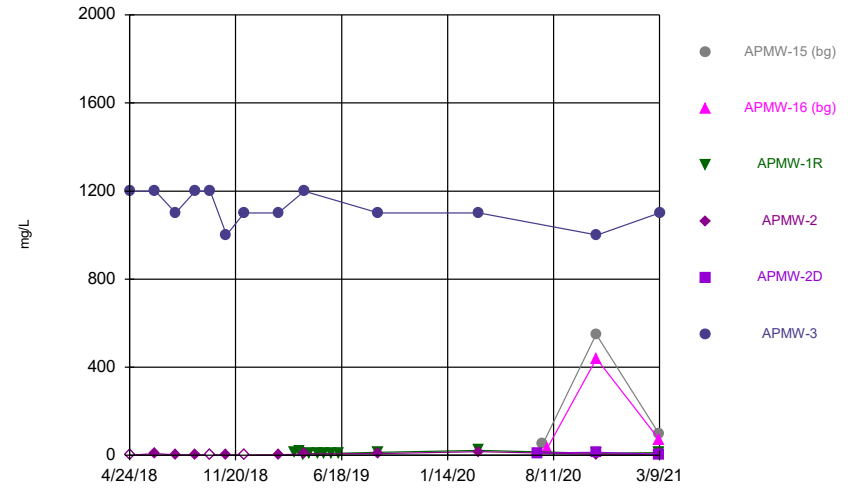
Constituent: Seleniun Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



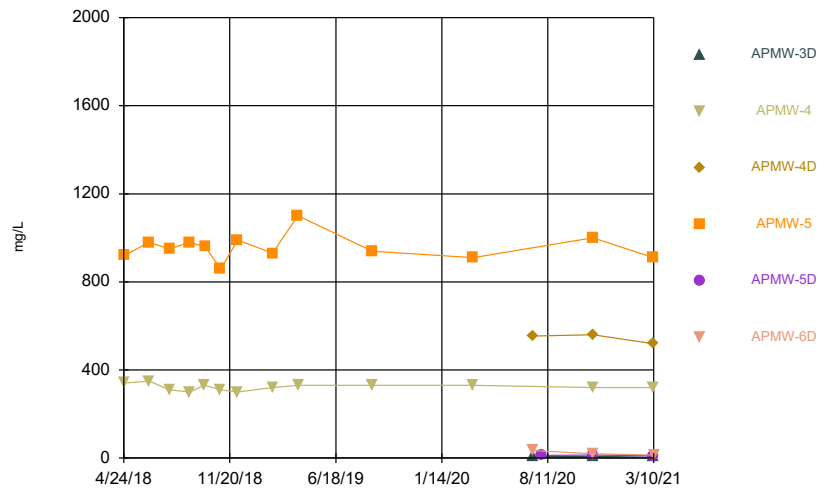
Constituent: Sulfate Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



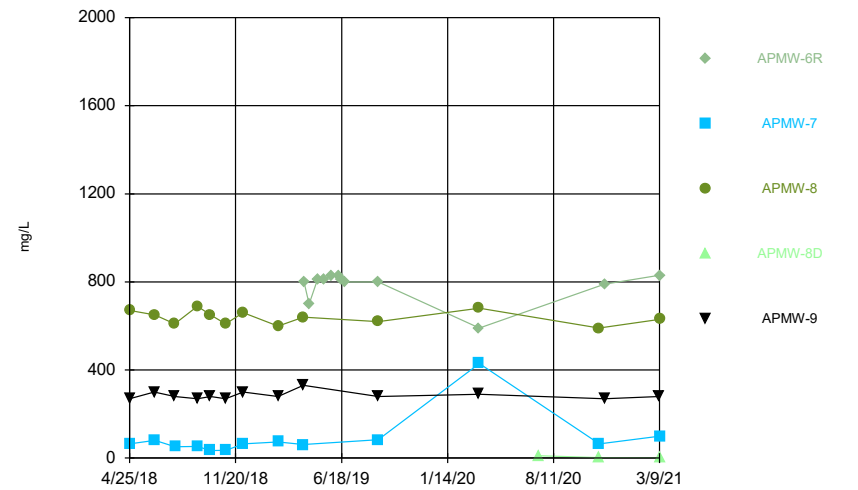
Constituent: Sulfate Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



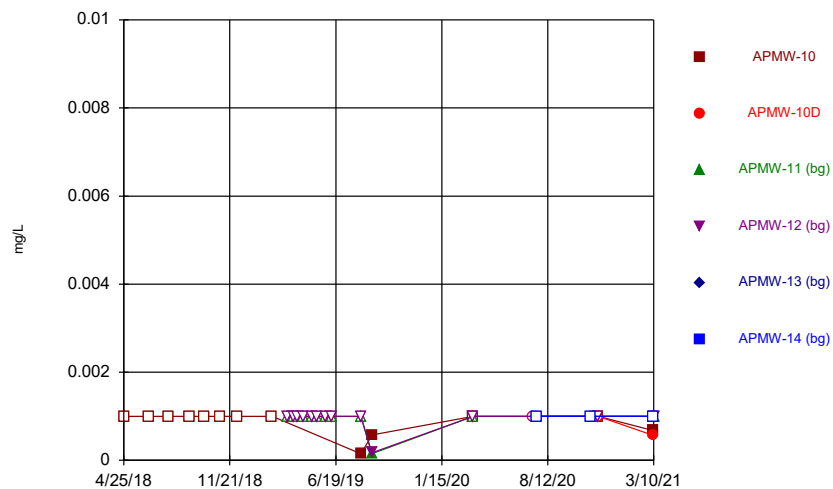
Constituent: Sulfate Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



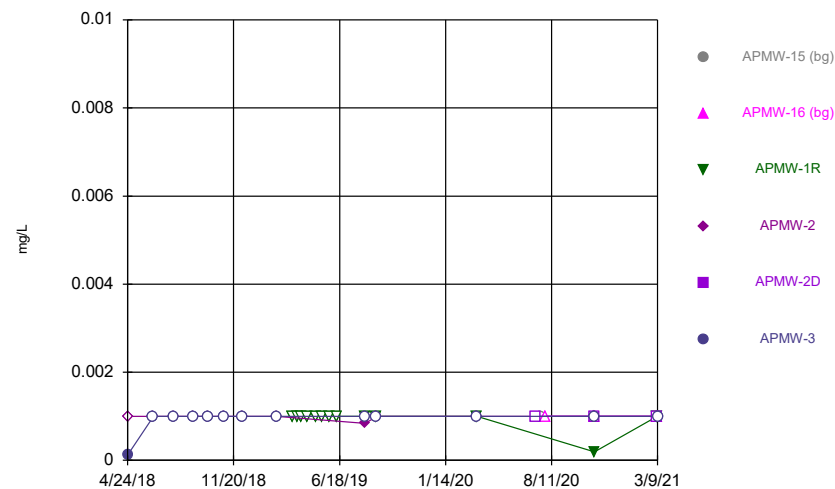
Constituent: Sulfate Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



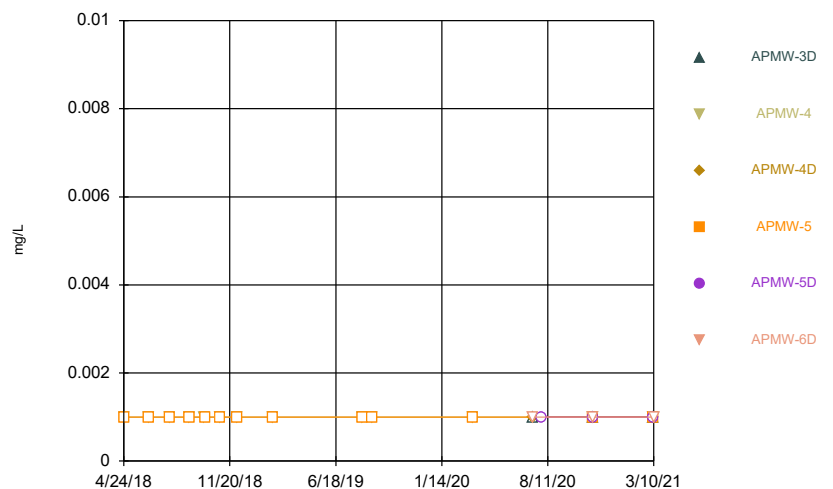
Constituent: Thallium Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



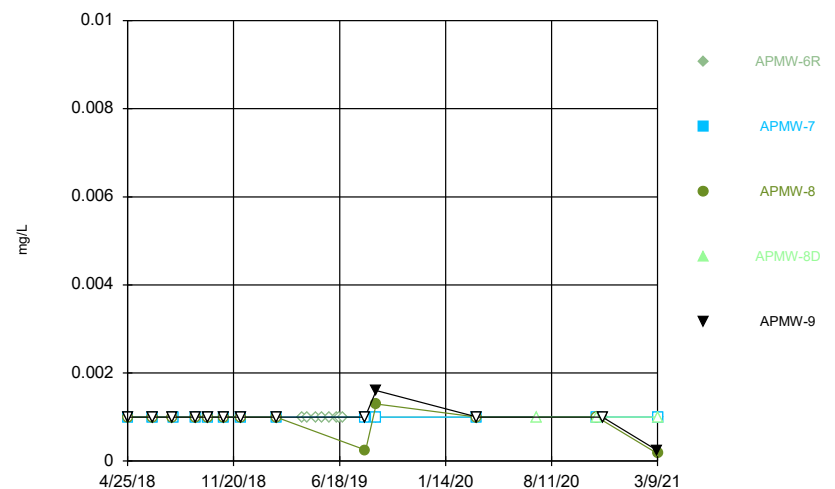
Constituent: Thallium Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



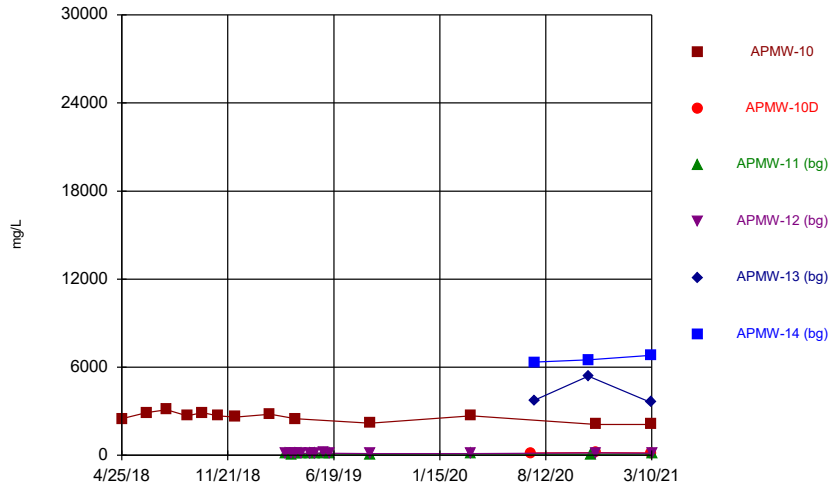
Constituent: Thallium Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



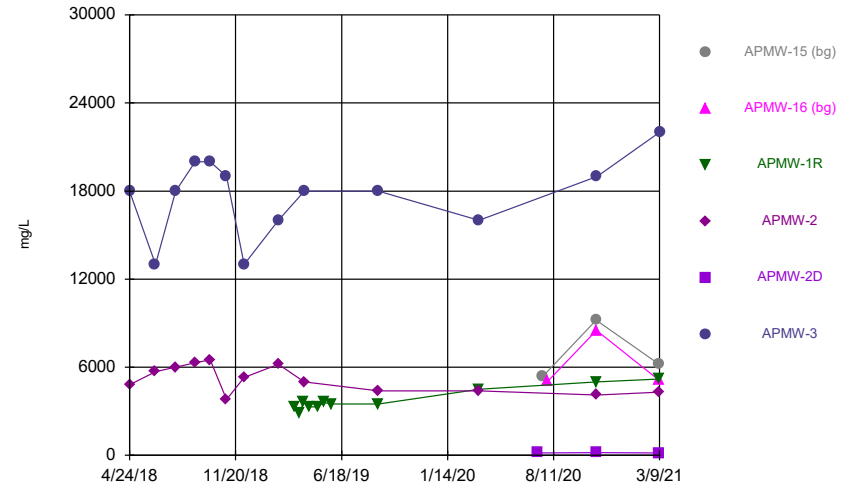
Constituent: Thallium Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



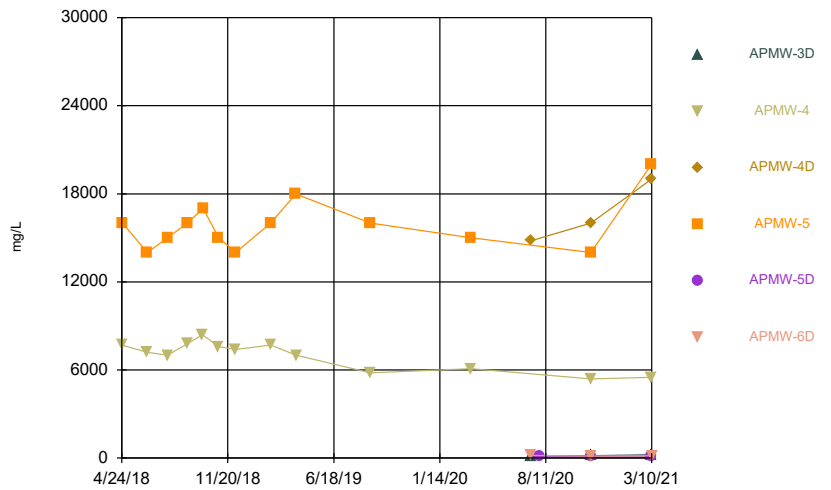
Constituent: Total Dissolved Solids Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



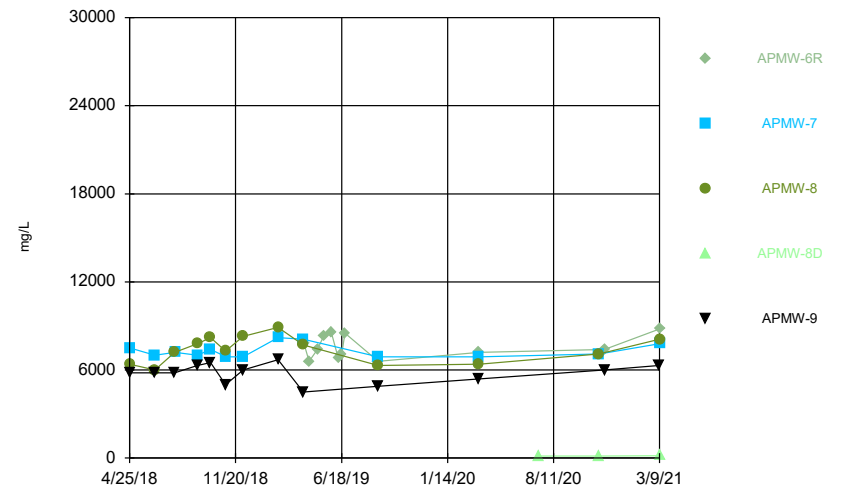
Constituent: Total Dissolved Solids Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/3/2021 2:26 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.002					
6/13/2018	<0.002					
7/23/2018	<0.002					
9/1/2018	<0.002					
10/2/2018	<0.002					
11/1/2018	<0.002					
12/6/2018	<0.002					
2/13/2019	<0.002					
3/16/2019			<0.002	<0.002		
3/27/2019			<0.002 (D)	<0.002 (D)		
4/3/2019			<0.002 (D)	<0.002 (D)		
4/16/2019			<0.002	<0.002		
5/3/2019			<0.002	<0.002		
5/14/2019			<0.002	<0.002		
5/29/2019			<0.002	<0.002		
6/12/2019			<0.002	<0.002		
8/8/2019	<0.002		<0.002	<0.002		
8/29/2019			<0.002	<0.002		
8/30/2019	<0.002					
3/17/2020	<0.002		<0.002	<0.002		
7/13/2020		<0.002				
7/21/2020					<0.002	<0.002
11/4/2020					<0.002	<0.002
11/9/2020			<0.002			
11/20/2020	<0.002	<0.002		<0.002		
3/8/2021	<0.002	<0.002			<0.002	<0.002
3/10/2021			<0.002	<0.002		

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.002		<0.002
6/14/2018				<0.002		<0.002
7/24/2018				<0.002		<0.002
9/1/2018				<0.002		<0.002
10/1/2018				<0.002		<0.002
11/2/2018				<0.002		<0.002
12/7/2018				<0.002		<0.002
2/13/2019				<0.002		<0.002
3/16/2019			<0.002			
3/27/2019			<0.002			
4/3/2019			<0.002			
4/15/2019			<0.002			
5/2/2019			<0.002			
5/14/2019			<0.002			
5/28/2019			<0.002			
6/12/2019			<0.002			
8/8/2019			<0.002	0.0014 (J)		<0.002
8/30/2019			<0.002	<0.002		<0.002
3/16/2020			<0.002	<0.002		<0.002
7/11/2020					<0.002	
7/21/2020	<0.002					
7/30/2020		<0.002				
11/3/2020	<0.002					
11/4/2020		<0.002	<0.002			
11/5/2020				<0.002	<0.002	<0.002
3/8/2021	<0.002	<0.002	<0.002	<0.002	<0.002	
3/9/2021						<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		<0.002				
4/25/2018				<0.002		
6/14/2018		<0.002		<0.002		
7/24/2018		<0.002		<0.002		
9/1/2018		<0.002		<0.002		
10/1/2018		<0.002				
10/2/2018				<0.002		
11/2/2018		<0.002		<0.002		
12/6/2018		<0.002		<0.002		
2/13/2019		<0.002		<0.002		
8/9/2019		<0.002		<0.002		
8/30/2019		<0.002		<0.002		
3/16/2020		<0.002				
3/17/2020				<0.002		
7/13/2020	<0.002					
7/14/2020			<0.002			<0.002
7/30/2020					<0.002	
11/9/2020	<0.002	<0.002	<0.002	<0.002	<0.002	
11/10/2020						<0.002
3/9/2021	<0.002	<0.002	<0.002	<0.002	<0.002	
3/10/2021						<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.002	<0.002		<0.002
6/13/2018					<0.002
6/14/2018		<0.002	<0.002		
7/23/2018			<0.002		<0.002
7/24/2018		<0.002			
9/6/2018		<0.002	<0.002		<0.002
10/2/2018		<0.002	<0.002		<0.002
11/1/2018			<0.002		<0.002
11/2/2018		<0.002			
12/6/2018		<0.002	<0.002		<0.002
2/13/2019		<0.002	<0.002		<0.002
4/5/2019	<0.002 (D)				
4/15/2019	<0.002				
5/2/2019	<0.002				
5/14/2019	<0.002				
5/29/2019	<0.002				
6/12/2019	<0.002				
6/19/2019	<0.002				
6/25/2019	<0.002				
8/8/2019					<0.002
8/9/2019	<0.002	<0.002	<0.002		
8/30/2019	<0.002	<0.002	<0.002		<0.002
3/17/2020	<0.002	<0.002	<0.002		<0.002
7/13/2020				<0.002	
11/9/2020			<0.002		
11/10/2020		<0.002		<0.002	
11/20/2020	<0.002				<0.002
3/8/2021					<0.002
3/9/2021	<0.002	<0.002	<0.002	<0.002	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	0.13					
6/13/2018	0.11					
7/23/2018	0.13					
9/1/2018	0.12					
10/2/2018	0.11					
11/1/2018	0.11					
12/6/2018	0.12					
2/13/2019	0.098					
3/16/2019			0.00062 (J)	0.00084 (J)		
3/27/2019			<0.001 (D)	<0.001 (D)		
4/3/2019			<0.001 (D)	0.0013 (D)		
4/16/2019			<0.001	0.0013		
5/3/2019			<0.001	0.0011 (J)		
5/14/2019			<0.001	0.00061 (J)		
5/29/2019			0.00037 (J)	0.0011		
6/12/2019			0.00056 (J)	0.0013		
8/8/2019	0.11		<0.001	0.001		
8/29/2019			<0.001	0.00041 (J)		
8/30/2019	0.079					
3/17/2020	0.093		<0.001	0.00043 (J)		
7/13/2020		0.0116				
7/21/2020					<0.001	0.00215
11/4/2020					0.00032 (J)	<0.001
11/9/2020			<0.001			
11/20/2020	0.072	0.019		0.00042 (J)		
3/8/2021	0.047	0.01			<0.001	<0.001
3/10/2021			<0.001	0.00039 (J)		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				0.00077 (J)		0.084
6/14/2018				<0.001		0.081
7/24/2018				<0.001		0.093
9/1/2018				<0.001		0.099
10/1/2018				0.00094 (J)		0.077
11/2/2018				0.0012 (J)		0.067
12/7/2018				<0.001		0.063
2/13/2019				<0.001		0.065
3/16/2019			0.0021			
3/27/2019			0.0019			
4/3/2019			0.0019			
4/15/2019			0.0025			
5/2/2019			0.0019			
5/14/2019			0.0027			
5/28/2019			<0.001			
6/12/2019			0.0023			
8/8/2019			0.0012	0.00035 (J)		0.074
8/30/2019			0.0011	<0.001		0.07
3/16/2020			0.00085 (J)	<0.001		0.071
7/11/2020					0.00374	
7/21/2020	0.00277					
7/30/2020		0.00496				
11/3/2020	0.0013					
11/4/2020		0.0036	0.00069 (J)			
11/5/2020				<0.001	0.0033	0.064
3/8/2021	0.00073 (J)	0.00072 (J)	0.0005 (J)	<0.001	0.0032	
3/9/2021						0.042

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.019				
4/25/2018				0.24		
6/14/2018		0.018		0.22		
7/24/2018		0.018		0.23		
9/1/2018		0.017		0.22		
10/1/2018		0.017				
10/2/2018				0.21		
11/2/2018		0.018		0.26		
12/6/2018		0.018		0.23		
2/13/2019		0.019		0.23		
8/9/2019		0.018		0.24		
8/30/2019		0.016		0.2		
3/16/2020		0.017				
3/17/2020				0.21		
7/13/2020	0.002					
7/14/2020			0.00773			0.00412
7/30/2020					0.00958	
11/9/2020	0.0033	0.018	0.0043	0.26	0.012	
11/10/2020						0.0041
3/9/2021	0.0035	0.016	0.0059	0.21	0.013	
3/10/2021						0.0045

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.0021	0.097		0.0016
6/13/2018					0.001 (J)
6/14/2018		0.0015	0.089		
7/23/2018			0.094		0.0011 (J)
7/24/2018		0.0015			
9/6/2018		0.0013	0.082		0.0011 (J)
10/2/2018		0.0014	0.075		0.0015
11/1/2018			0.081		0.0014
11/2/2018		0.0028			
12/6/2018		0.0033	0.079		0.0016
2/13/2019		0.0012 (J)	0.077		0.0013
4/5/2019	0.13 (D)				
4/15/2019	0.13				
5/2/2019	0.089				
5/14/2019	0.13				
5/29/2019	0.12				
6/12/2019	0.13				
6/19/2019	0.16				
6/25/2019	0.13				
8/8/2019					0.0012
8/9/2019	0.16	0.00053 (J)	0.052		
8/30/2019	0.17	0.00044 (J)	0.05		0.0011
3/17/2020	0.18	0.00053 (J)	0.043		0.001
7/13/2020				0.000995 (J)	
11/9/2020			0.036		
11/10/2020		0.00058 (J)		0.0034	
11/20/2020	0.18				0.0012
3/8/2021					0.0015
3/9/2021	0.21	0.00045 (J)	0.035	0.0045	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	0.26					
6/13/2018	0.3					
7/23/2018	0.24					
9/1/2018	0.25					
10/2/2018	0.23					
11/1/2018	0.23					
12/6/2018	0.24					
2/13/2019	0.26					
3/16/2019			0.09	0.069		
3/27/2019			0.095 (D)	0.079 (D)		
4/3/2019			0.085 (D)	0.075 (D)		
4/16/2019			0.081	0.072		
5/3/2019			0.074	0.076		
5/14/2019			0.083	0.076		
5/29/2019			0.04	0.091		
6/12/2019			0.066	0.083		
8/8/2019	0.24		0.053	0.065		
8/29/2019			0.043	0.071		
8/30/2019	0.2					
3/17/2020	0.25		0.037	0.07		
7/13/2020		0.0358				
7/21/2020					0.212	0.243
11/4/2020					0.11	0.22
11/9/2020			0.038			
11/20/2020	0.27	0.032		0.065		
3/8/2021	0.32	0.026			0.24	0.21
3/10/2021			0.038	0.06		

Time Series

Constituent: Barium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				2.8		0.097
6/14/2018				3.1		0.11
7/24/2018				3		0.1
9/1/2018				2.9		0.12
10/1/2018				4		0.1
11/2/2018				3.1		0.1
12/7/2018				3.3		0.11
2/13/2019				2.9		0.1
3/16/2019			0.89			
3/27/2019			1.1			
4/3/2019			1.1			
4/15/2019			0.98			
5/2/2019			0.94			
5/14/2019			1			
5/28/2019			1			
6/12/2019			0.91			
8/8/2019			0.93	3.2		0.1
8/30/2019			0.91	2.7		0.1
3/16/2020			1.2	3.2		0.1
7/11/2020					0.0418	
7/21/2020	0.059					
7/30/2020		0.0659				
11/3/2020	0.054					
11/4/2020		0.076	1.4			
11/5/2020				3.2	0.038	0.1
3/8/2021	0.048	0.063	1.3	3.3	0.037	
3/9/2021						0.1

Time Series

Constituent: Barium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.46				
4/25/2018				0.093		
6/14/2018		0.5		0.11		
7/24/2018		0.54		0.093		
9/1/2018		0.53		0.1		
10/1/2018		0.5				
10/2/2018				0.1		
11/2/2018		0.5		0.12		
12/6/2018		0.43		0.1		
2/13/2019		0.45		0.1		
8/9/2019		0.33		0.11		
8/30/2019		0.29		0.086		
3/16/2020		0.27				
3/17/2020				0.1		
7/13/2020	0.135					
7/14/2020			0.342			0.107
7/30/2020					0.0659	
11/9/2020	0.14	0.23	0.24	0.1	0.069	
11/10/2020						0.077
3/9/2021	0.16	0.22	0.21	0.1	0.059	
3/10/2021						0.087

Time Series

Constituent: Barium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.66	0.2		0.42
6/13/2018					0.45
6/14/2018		0.74	0.22		
7/23/2018			0.2		0.42
7/24/2018		0.72			
9/6/2018		0.79	0.22		0.45
10/2/2018		0.93	0.21		0.43
11/1/2018			0.21		0.43
11/2/2018		1.1			
12/6/2018		0.7	0.22		0.44
2/13/2019		0.59	0.23		0.44
4/5/2019	0.071 (D)				
4/15/2019	0.067				
5/2/2019	0.071				
5/14/2019	0.068				
5/29/2019	0.067 (J)				
6/12/2019	0.064 (J)				
6/19/2019	0.059 (J)				
6/25/2019	0.057 (J)				
8/8/2019					0.42
8/9/2019	0.058	0.76	0.2		
8/30/2019	0.052	0.56	0.2		0.42
3/17/2020	0.05	0.53	0.21		0.49
7/13/2020				0.192	
11/9/2020			0.23		
11/10/2020		0.77		0.12	
11/20/2020	0.048				0.48
3/8/2021					0.47
3/9/2021	0.055	0.53	0.22	0.15	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.0025					
6/13/2018	<0.0025					
7/23/2018	<0.0025					
9/1/2018	<0.0025					
10/2/2018	<0.0025					
11/1/2018	<0.0025					
12/6/2018	<0.0025					
2/13/2019	<0.0025					
3/16/2019			<0.0025	<0.0025		
3/27/2019			<0.0025 (D)	<0.0025 (D)		
4/3/2019			<0.0025 (D)	<0.0025 (D)		
4/16/2019			<0.0025	<0.0025		
5/3/2019			<0.0025	<0.0025		
5/14/2019			<0.0025	<0.0025		
5/29/2019			0.00019 (J)	<0.0025		
6/12/2019			<0.0025	<0.0025		
8/8/2019	<0.0025		<0.0025	<0.0025		
8/29/2019			0.0002 (J)	0.00023 (J)		
8/30/2019	0.00043 (J)					
3/17/2020	<0.0025		<0.0025	<0.0025		
7/13/2020		<0.0025				
7/21/2020				<0.0025	<0.0025	
11/4/2020				<0.0025	<0.0025	
11/9/2020			<0.0025			
11/20/2020	<0.0025	<0.0025		<0.0025		
3/8/2021	0.00076 (J)	0.00057 (J)			<0.0025	<0.0025
3/10/2021			<0.0025	<0.0025		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.0025		<0.0025
6/14/2018				<0.0025		<0.0025
7/24/2018				<0.0025		<0.0025
9/1/2018				<0.0025		<0.0025
10/1/2018				<0.0025		<0.0025
11/2/2018				<0.0025		<0.0025
12/7/2018				<0.0025		<0.0025
2/13/2019				<0.0025		<0.0025
3/16/2019			<0.0025			
3/27/2019			<0.0025			
4/3/2019			<0.0025			
4/15/2019			<0.0025			
5/2/2019			<0.0025			
5/14/2019			<0.0025			
5/28/2019			<0.0025			
6/12/2019			<0.0025			
8/8/2019			<0.0025	0.00061 (J)		<0.0025
8/30/2019			0.00019 (J)	0.00023 (J)		0.00018 (J)
3/16/2020			<0.0025	<0.0025		<0.0025
7/11/2020					<0.0025	
7/21/2020	<0.0025					
7/30/2020		<0.0025				
11/3/2020	<0.0025					
11/4/2020		<0.0025	<0.0025			
11/5/2020				<0.0025	<0.0025	<0.0025
3/8/2021	<0.0025	<0.0025	<0.0025	0.00018 (J)	<0.0025	
3/9/2021						<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		<0.0025				
4/25/2018				<0.0025		
6/14/2018		<0.0025		<0.0025		
7/24/2018		<0.0025		<0.0025		
9/1/2018		<0.0025		<0.0025		
10/1/2018		<0.0025				
10/2/2018				<0.0025		
11/2/2018		<0.0025		<0.0025		
12/6/2018		<0.0025		<0.0025		
2/13/2019		<0.0025		<0.0025		
8/9/2019		<0.0025		<0.0025		
8/30/2019		<0.0025		<0.0025		
3/16/2020		<0.0025				
3/17/2020				<0.0025		
7/13/2020	<0.0025					
7/14/2020			<0.0025			<0.0025
7/30/2020					<0.0025	
11/9/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
11/10/2020						<0.0025
3/9/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/10/2021						<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.0025	<0.0025		<0.0025
6/13/2018					<0.0025
6/14/2018		<0.0025	<0.0025		
7/23/2018			<0.0025		<0.0025
7/24/2018		<0.0025			
9/6/2018		<0.0025	<0.0025		<0.0025
10/2/2018		<0.0025	<0.0025		<0.0025
11/1/2018			<0.0025		<0.0025
11/2/2018		<0.0025			
12/6/2018		<0.0025	<0.0025		<0.0025
2/13/2019		<0.0025	<0.0025		<0.0025
4/5/2019	<0.0025 (D)				
4/15/2019	<0.0025				
5/2/2019	<0.0025				
5/14/2019	<0.0025				
5/29/2019	<0.0025				
6/12/2019	<0.0025				
6/19/2019	<0.0025				
6/25/2019	<0.0025				
8/8/2019					<0.0025
8/9/2019	<0.0025	<0.0025	<0.0025		
8/30/2019	0.00036 (J)	0.00025 (J)	0.00038 (J)		0.00049 (J)
3/17/2020	<0.0025	<0.0025	<0.0025		<0.0025
7/13/2020				<0.0025	
11/9/2020			<0.0025		
11/10/2020		<0.0025		<0.0025	
11/20/2020	<0.0025				<0.0025
3/8/2021					0.00024 (J)
3/9/2021	<0.0025	<0.0025	<0.0025	<0.0025	

Time Series

Constituent: Boron (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	1.7					
6/13/2018	1.7					
7/23/2018	2					
9/1/2018	1.9					
10/2/2018	1.8					
11/1/2018	1.8					
12/6/2018	1.9					
2/13/2019	2.4					
3/16/2019			0.028 (J)	0.035 (J)		
3/27/2019			0.027 (JD)	0.033 (JD)		
4/3/2019			0.089 (D)	0.023 (JD)		
4/4/2019	1.8					
4/16/2019			<0.08	<0.08		
5/3/2019			<0.08	0.021 (J)		
5/14/2019			<0.08	<0.08		
5/29/2019			0.034 (J)	0.044 (J)		
6/12/2019			0.05 (J)	0.047 (J)		
8/29/2019			<0.08	<0.08		
8/30/2019	1.9					
3/17/2020	1.9		0.057 (J)	0.057 (J)		
7/13/2020		0.105				
7/21/2020					0.58	0.718
11/4/2020					0.88	0.85
11/9/2020			<0.08			
11/20/2020	1.8	0.22		0.098		
3/8/2021	1.8	0.14			0.63	0.71
3/10/2021			<0.08	0.046 (J)		

Time Series

Constituent: Boron (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				4.1		5.3
6/14/2018				4		5.1
7/24/2018				4.3		5.5
9/1/2018				4		4.9
10/1/2018				4		5
11/2/2018				3.5		4.6
12/7/2018				3.9		4.8
2/13/2019				4.4		6
3/16/2019			4.5			
3/27/2019			5.2			
4/3/2019			5.3			
4/5/2019				3.6		4.5
4/15/2019			5.9			
5/2/2019			5.3			
5/14/2019			5.5			
5/28/2019			5.7			
6/12/2019			4.4			
8/30/2019			6.2	3.7		5
3/16/2020			7.2	3.7		5.3
7/11/2020					0.0771	
7/21/2020	0.609					
7/30/2020		0.62				
11/3/2020	1.2					
11/4/2020		1.2	6.8			
11/5/2020				3.6	0.12	5.1
3/8/2021	0.59	0.6	7.3	3.5	0.094	
3/9/2021						5.5

Time Series

Constituent: Boron (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		1.9				
4/25/2018				6.9		
6/14/2018		1.9		6.8		
7/24/2018		1.9		6.9		
9/1/2018		1.7		6.2		
10/1/2018		1.7				
10/2/2018				6.5		
11/2/2018		1.7		5.5		
12/6/2018		1.7		5.7		
2/13/2019		1.7		7.6		
4/4/2019				5.8		
4/5/2019		1.6				
8/30/2019		1.6		6.1		
3/16/2020		1.6				
3/17/2020				6.6		
7/13/2020	0.0613					
7/14/2020			3.55			0.0574
7/30/2020					0.0792	
11/9/2020	0.072 (J)	1.3	3.6	5.8	0.062 (J)	
11/10/2020						0.068 (J)
3/9/2021	0.099	1.2	3.3	6.1	0.083	
3/10/2021						0.076 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		1	23		6.8
6/13/2018					6.6
6/14/2018		0.91	21		
7/23/2018			22		6.8
7/24/2018		1			
9/6/2018		1.1	21		6.5
10/2/2018		0.95	21		6.5
11/1/2018			19		5.6
11/2/2018		0.82			
12/6/2018		1.1	20		6.4
2/13/2019		0.95	27		8.4
4/4/2019		0.98	20		6.1
4/5/2019	8.9 (D)				
4/15/2019	10				
5/2/2019	10				
5/14/2019	9.3				
5/29/2019	9.5				
6/12/2019	11				
6/19/2019	9.5				
6/25/2019	11				
8/30/2019	11	0.88	19		7.1
3/17/2020	11	0.98	20		7.1
7/13/2020				0.042 (J)	
11/9/2020			21		
11/10/2020		0.94		0.076 (J)	
11/20/2020	9.5				6.5
3/8/2021					6.5
3/9/2021	12	0.91	21	0.095	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.0025					
6/13/2018	<0.0025					
7/23/2018	<0.0025					
9/1/2018	<0.0025					
10/2/2018	<0.0025					
11/1/2018	<0.0025					
12/6/2018	<0.0025					
2/13/2019	<0.0025					
3/16/2019			<0.0025	<0.0025		
3/27/2019			<0.0025 (D)	<0.0025 (D)		
4/3/2019			<0.0025 (D)	<0.0025 (D)		
4/16/2019			<0.0025	<0.0025		
5/3/2019			<0.0025	<0.0025		
5/14/2019			<0.0025	<0.0025		
5/29/2019			<0.0025	<0.0025		
6/12/2019			<0.0025	<0.0025		
8/8/2019	<0.0025		<0.0025	<0.0025		
8/29/2019			<0.0025	<0.0025		
8/30/2019	<0.0025					
3/17/2020	<0.0025		<0.0025	<0.0025		
7/13/2020		<0.0025				
7/21/2020				<0.0025	<0.0025	
11/4/2020				<0.0025	<0.0025	
11/9/2020			<0.0025			
11/20/2020	<0.0025	<0.0025		<0.0025		
3/8/2021	0.00025 (J)	0.00025 (J)			<0.0025	<0.0025
3/10/2021			<0.0025	<0.0025		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.0025		<0.0025
6/14/2018				<0.0025		<0.0025
7/24/2018				<0.0025		<0.0025
9/1/2018				<0.0025		<0.0025
10/1/2018				<0.0025		<0.0025
11/2/2018				<0.0025		<0.0025
12/7/2018				<0.0025		<0.0025
2/13/2019				<0.0025		<0.0025
3/16/2019			<0.0025			
3/27/2019			<0.0025			
4/3/2019			<0.0025			
4/15/2019			0.00045 (J)			
5/2/2019			<0.0025			
5/14/2019			<0.0025			
5/28/2019			<0.0025			
6/12/2019			<0.0025			
8/8/2019			<0.0025	<0.0025		<0.0025
8/30/2019			<0.0025	<0.0025		<0.0025
3/16/2020			<0.0025	<0.0025		<0.0025
7/11/2020					<0.0025	
7/21/2020	<0.0025					
7/30/2020		0.000355 (J)				
11/3/2020	<0.0025					
11/4/2020		<0.0025	<0.0025			
11/5/2020				<0.0025	<0.0025	<0.0025
3/8/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/9/2021						<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		<0.0025				
4/25/2018				<0.0025		
6/14/2018		<0.0025		<0.0025		
7/24/2018		<0.0025		<0.0025		
9/1/2018		<0.0025		<0.0025		
10/1/2018		<0.0025				
10/2/2018				<0.0025		
11/2/2018		<0.0025		<0.0025		
12/6/2018		<0.0025		<0.0025		
2/13/2019		<0.0025		<0.0025		
8/9/2019		<0.0025		<0.0025		
8/30/2019		<0.0025		<0.0025		
3/16/2020		<0.0025				
3/17/2020				<0.0025		
7/13/2020	<0.0025					
7/14/2020			<0.0025			<0.0025
7/30/2020					<0.0025	
11/9/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
11/10/2020						<0.0025
3/9/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/10/2021						<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.0025	<0.0025		<0.0025
6/13/2018					<0.0025
6/14/2018		<0.0025	<0.0025		
7/23/2018			<0.0025		<0.0025
7/24/2018		<0.0025			
9/6/2018		<0.0025	<0.0025		<0.0025
10/2/2018		<0.0025	<0.0025		<0.0025
11/1/2018			<0.0025		<0.0025
11/2/2018		<0.0025			
12/6/2018		<0.0025	<0.0025		<0.0025
2/13/2019		<0.0025	<0.0025		<0.0025
4/5/2019	<0.0025 (D)				
4/15/2019	<0.0025				
5/2/2019	<0.0025				
5/14/2019	<0.0025				
5/29/2019	<0.0025				
6/12/2019	<0.0025				
6/19/2019	<0.0025				
6/25/2019	<0.0025				
8/8/2019					<0.0025
8/9/2019	0.00014 (J)	<0.0025	<0.0025		
8/30/2019	0.00026 (J)	<0.0025	<0.0025		<0.0025
3/17/2020	<0.0025	<0.0025	<0.0025		<0.0025
7/13/2020				<0.0025	
11/9/2020			<0.0025		
11/10/2020		<0.0025		<0.0025	
11/20/2020	<0.0025				<0.0025
3/8/2021					<0.0025
3/9/2021	<0.0025	<0.0025	<0.0025	<0.0025	

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	68					
6/13/2018	79					
7/23/2018	73					
9/1/2018	68					
10/2/2018	71					
11/1/2018	67					
12/6/2018	65					
2/13/2019	64					
3/16/2019			17	13		
3/27/2019			16 (D)	15 (D)		
4/3/2019			15 (D)	13 (D)		
4/4/2019	80					
4/16/2019			13	12		
5/3/2019			12	13		
5/14/2019			14	13		
5/29/2019			7	15		
6/12/2019			13	14		
8/29/2019			9.4	12		
8/30/2019	53					
3/17/2020	59		9.8	12		
7/13/2020		2.62				
7/21/2020					97.7	127
11/4/2020					110	120
11/9/2020			11			
11/20/2020	53	2.9		12		
3/8/2021	47	3.4			92	110
3/10/2021			12	12		

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				310		320
6/14/2018				360		310
7/24/2018				370		360
9/1/2018				390		320
10/1/2018				380		360
11/2/2018				320		310
12/7/2018				330		320
2/13/2019				320		300
3/16/2019			130			
3/27/2019			140			
4/3/2019			140			
4/5/2019				310		290
4/15/2019			130			
5/2/2019			130			
5/14/2019			140			
5/28/2019			150			
6/12/2019			130			
8/30/2019			160	340		320
3/16/2020			200	350		310
7/11/2020					3.66	
7/21/2020	81.7					
7/30/2020		99.2				
11/3/2020	120					
11/4/2020		130	200			
11/5/2020				350	4.6	370
3/8/2021	69	69	210	350	3.6	
3/9/2021						350

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		190				
4/25/2018				350		
6/14/2018		200		340		
7/24/2018		210		340		
9/1/2018		220		360		
10/1/2018		210				
10/2/2018				310		
11/2/2018		190		310		
12/6/2018		190		330		
2/13/2019		180		310		
4/4/2019				270		
4/5/2019		170				
8/30/2019		170		320		
3/16/2020		170				
3/17/2020				330		
7/13/2020	5.41					
7/14/2020			220			6.42
7/30/2020					1.34	
11/9/2020	10	160	220	330	1.7	
11/10/2020						8.1
3/9/2021	13	160	240	340	1.5	
3/10/2021						5.3

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		93	560		320
6/13/2018					300
6/14/2018		110	490		
7/23/2018			520		320
7/24/2018		100			
9/6/2018		98	510		310
10/2/2018		93	470		290
11/1/2018			460		280
11/2/2018		110			
12/6/2018		94	490		310
2/13/2019		95	470		300
4/4/2019		98	440		270
4/5/2019	440 (D)				
4/15/2019	390				
5/2/2019	400				
5/14/2019	420				
5/29/2019	450				
6/12/2019	440				
6/19/2019	450				
6/25/2019	450				
8/30/2019	460	90	460		310
3/17/2020	420	110	470		310
7/13/2020				10.5	
11/9/2020			470		
11/10/2020		99		13	
11/20/2020	420				290
3/8/2021					300
3/9/2021	460	120	480	13	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	1300					
6/13/2018	1400					
7/23/2018	1200					
9/1/2018	1400					
10/2/2018	1400					
11/1/2018	1300					
12/6/2018	1300					
2/13/2019	1200					
3/16/2019			9.3	14		
3/27/2019			8.2 (D)	15 (D)		
4/3/2019			8.7 (D)	15 (D)		
4/4/2019	1200					
4/16/2019			8.7	14		
5/3/2019			9.3	15		
5/14/2019			8.8	15		
5/29/2019			8.8	14		
6/12/2019			8.8	15		
8/29/2019			8.1	14		
8/30/2019	1200					
3/17/2020	1100		8.2	14		
7/13/2020		4.73				
7/21/2020					1470	2920
11/4/2020					5400	3100
11/9/2020			9.1			
11/20/2020	1000	4.6		16		
3/8/2021	920	4.3			1600	3000
3/10/2021			8.9	15		

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				2800		11000
6/14/2018				2700		11000
7/24/2018				2800		11000
9/1/2018				2800		10000
10/1/2018				2800		11000
11/2/2018				2700		11000
12/7/2018				2700		12000
2/13/2019				2800		9800
3/16/2019			1900			
3/27/2019			1900			
4/3/2019			1900			
4/5/2019				2600		9900
4/15/2019			1900			
5/2/2019			1900			
5/14/2019			2000			
5/28/2019			1900			
6/12/2019			2000			
8/30/2019			2100	2500		9800
3/16/2020			2600	2500		10000
7/11/2020					5.74	
7/21/2020	2910					
7/30/2020		2830				
11/3/2020	4900					
11/4/2020		4700	4700			
11/5/2020				5100	5.4	9600
3/8/2021	2900	2600	2500	2500	5.1	
3/9/2021						10000

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		4000				
4/25/2018				8500		
6/14/2018		4000		8700		
7/24/2018		3900		8700		
9/1/2018		4200		8900		
10/1/2018		4200				
10/2/2018				9300		
11/2/2018		4000		8900		
12/6/2018		4000		9000		
2/13/2019		3800		8600		
4/4/2019				8600		
4/5/2019		3900				
8/30/2019		3600		8700		
3/16/2020		3400				
3/17/2020				8900		
7/13/2020	6.04					
7/14/2020			9830			10.5
7/30/2020					10.2	
11/9/2020	<1	3200	9300	9400	9.4	
11/10/2020						10
3/9/2021	49	3100	9100	8700	8.5	
3/10/2021						8.6

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		3900	3400		2800
6/13/2018					3100
6/14/2018		4100	3600		
7/23/2018			3500		3000
7/24/2018		3900			
9/6/2018		4000	3600		3000
10/2/2018		4000	3800		3100
11/1/2018			3600		3000
11/2/2018		3800			
12/6/2018		4300	3700		3100
2/13/2019		4200	3500		3000
4/4/2019		3700	3500		3100
4/5/2019	4000 (D)				
4/15/2019	3400				
5/2/2019	4100				
5/14/2019	4200				
5/29/2019	4200				
6/12/2019	4200				
6/19/2019	4000				
6/25/2019	4000				
8/30/2019	4100	4000	3400		2800
3/17/2020	6000	4600	3700		3100
7/13/2020				9.1	
11/9/2020			3600		
11/10/2020		4200		9	
11/20/2020	4300				3100
3/8/2021					3100
3/9/2021	4000	4600	3600	8.2	

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.002					
6/13/2018	<0.002					
7/23/2018	<0.002					
9/1/2018	<0.002					
10/2/2018	<0.002					
11/1/2018	<0.002					
12/6/2018	<0.002					
2/13/2019	<0.002					
3/16/2019			<0.002	<0.002		
3/27/2019			<0.002 (D)	<0.002 (D)		
4/3/2019			<0.002 (D)	<0.002 (D)		
4/16/2019			<0.002	<0.002		
5/3/2019			<0.002	<0.002		
5/14/2019			<0.002	<0.002		
5/29/2019			<0.002	<0.002		
6/12/2019			0.0022	0.0022		
8/8/2019	<0.002		<0.002	<0.002		
7/13/2020		<0.002				
7/21/2020					<0.002	<0.002
11/4/2020					<0.002	<0.002
11/9/2020			<0.002			
11/20/2020	<0.002	<0.002		<0.002		
3/8/2021	<0.002	<0.002			<0.002	<0.002
3/10/2021			0.0044	<0.002		

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.002		<0.002
6/14/2018				<0.002		<0.002
7/24/2018				<0.002		<0.002
9/1/2018				<0.002		0.0014 (J)
10/1/2018				<0.002		<0.002
11/2/2018				<0.002		<0.002
12/7/2018				<0.002		<0.002
2/13/2019				<0.002		<0.002
3/16/2019			<0.002			
3/27/2019			<0.002			
4/3/2019			<0.002			
4/15/2019			<0.002			
5/2/2019			<0.002			
5/14/2019			<0.002			
5/28/2019			<0.002			
6/12/2019			0.0032			
8/8/2019			<0.002	<0.002		<0.002
7/11/2020					0.00157 (J)	
7/21/2020	0.00152 (J)					
7/30/2020		<0.002				
11/3/2020	<0.002					
11/4/2020		<0.002	<0.002			
11/5/2020				<0.002	<0.002	<0.002
3/8/2021	<0.002	<0.002	<0.002	<0.002	<0.002	
3/9/2021						<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.0016 (J)				
4/25/2018				0.0013 (J)		
6/14/2018		0.002 (J)		0.0012 (J)		
7/24/2018		0.0022 (J)		<0.002		
9/1/2018		0.0025		0.0024 (J)		
10/1/2018		0.0028				
10/2/2018				0.0015 (J)		
11/2/2018		0.0026		0.0014 (J)		
12/6/2018		0.0012 (J)		<0.002		
2/13/2019		0.0013 (J)		<0.002		
8/9/2019		<0.002		<0.002		
7/13/2020	<0.002					
7/14/2020			<0.002			<0.002
7/30/2020					0.00378	
11/9/2020	<0.002	<0.002	<0.002	<0.002	0.0019 (J)	
11/10/2020						<0.002
3/9/2021	<0.002	<0.002	<0.002	<0.002	<0.002	
3/10/2021						<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.0014 (J)	<0.002		<0.002
6/13/2018					<0.002
6/14/2018		0.0014 (J)	0.0032		
7/23/2018			<0.002		<0.002
7/24/2018		0.0014 (J)			
9/6/2018		0.0017 (J)	0.0014 (J)		<0.002
10/2/2018		0.0013 (J)	<0.002		<0.002
11/1/2018			<0.002		<0.002
11/2/2018		0.0014 (J)			
12/6/2018		<0.002	<0.002		<0.002
2/13/2019		<0.002	<0.002		<0.002
4/5/2019	<0.002 (D)				
4/15/2019	<0.002				
5/2/2019	<0.002				
5/14/2019	<0.002				
5/29/2019	<0.002				
6/12/2019	<0.002				
6/19/2019	<0.002				
6/25/2019	<0.002				
8/8/2019					<0.002
8/9/2019	<0.002	<0.002	<0.002		
7/13/2020				<0.002	
11/9/2020			<0.002		
11/10/2020		<0.002		<0.002	
11/20/2020	<0.002				<0.002
3/8/2021					<0.002
3/9/2021	<0.002	0.0022	<0.002	<0.002	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.0025					
6/13/2018	<0.0025					
7/23/2018	<0.0025					
9/1/2018	<0.0025					
10/2/2018	<0.0025					
11/1/2018	<0.0025					
12/6/2018	<0.0025					
2/13/2019	<0.0025					
3/16/2019			<0.0025	<0.0025		
3/27/2019			<0.0025 (D)	<0.0025 (D)		
4/3/2019			<0.0025 (D)	<0.0025 (D)		
4/16/2019			<0.0025	<0.0025		
5/3/2019			<0.0025	<0.0025		
5/14/2019			<0.0025	<0.0025		
5/29/2019			<0.0025	<0.0025		
6/12/2019			<0.0025	<0.0025		
8/8/2019	0.00012 (J)		<0.0025	<0.0025		
8/29/2019			<0.0025	<0.0025		
8/30/2019	8.2E-05 (J)					
3/17/2020	<0.0025		<0.0025	<0.0025		
7/13/2020		<0.0025				
7/21/2020				<0.0025	<0.0025	
11/4/2020				<0.0025	<0.0025	
11/9/2020			0.00022 (J)			
11/20/2020	<0.0025	<0.0025		<0.0025		
3/8/2021	0.00033 (J)	0.00028 (J)		<0.0025	<0.0025	
3/10/2021			0.00031 (J)	<0.0025		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.0025		0.0026
6/14/2018				<0.0025		0.0023 (J)
7/24/2018				<0.0025		0.0026
9/1/2018				<0.0025		0.0023 (J)
10/1/2018				<0.0025		0.0028
11/2/2018				<0.0025		0.0027
12/7/2018				<0.0025		0.0028
2/13/2019				<0.0025		0.0028
3/16/2019			0.00057 (J)			
3/27/2019			0.00044 (J)			
4/3/2019			0.0004 (J)			
4/15/2019			0.00042 (J)			
5/2/2019			<0.0025			
5/14/2019			0.00044 (J)			
5/28/2019			<0.0025			
6/12/2019			0.00037 (J)			
8/8/2019			0.00017 (J)	<0.0025		0.0019
8/30/2019			0.00017 (J)	<0.0025		0.0025
3/16/2020			<0.0025	<0.0025		0.0022
7/11/2020					<0.0025	
7/21/2020	<0.0025					
7/30/2020		<0.0025				
11/3/2020	<0.0025					
11/4/2020		<0.0025	<0.0025			
11/5/2020				<0.0025	<0.0025	0.003
3/8/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/9/2021						0.0034

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.0033				
4/25/2018				<0.0025		
6/14/2018		0.0032		<0.0025		
7/24/2018		0.0036		<0.0025		
9/1/2018		0.0039		<0.0025		
10/1/2018		0.0029				
10/2/2018				<0.0025		
11/2/2018		0.0034		<0.0025		
12/6/2018		0.0032		<0.0025		
2/13/2019		0.0043		<0.0025		
8/9/2019		0.0034		7.5E-05 (J)		
8/30/2019		0.0034		7.9E-05 (J)		
3/16/2020		0.0039				
3/17/2020				<0.0025		
7/13/2020	<0.0025					
7/14/2020			0.00381			<0.0025
7/30/2020					0.0011 (J)	
11/9/2020	0.00021 (J)	0.0037	0.0031	<0.0025	0.00071 (J)	
11/10/2020						<0.0025
3/9/2021	<0.0025	0.0041	0.0023 (J)	<0.0025	0.00041 (J)	
3/10/2021						0.00021 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.0025	<0.0025		<0.0025
6/13/2018					<0.0025
6/14/2018		<0.0025	<0.0025		
7/23/2018			<0.0025		<0.0025
7/24/2018		<0.0025			
9/6/2018		0.00043 (J)	<0.0025		<0.0025
10/2/2018		<0.0025	<0.0025		<0.0025
11/1/2018			<0.0025		<0.0025
11/2/2018		<0.0025			
12/6/2018		<0.0025	<0.0025		<0.0025
2/13/2019		<0.0025	<0.0025		<0.0025
4/5/2019	0.0049 (D)				
4/15/2019	0.0045				
5/2/2019	0.0012 (J)				
5/14/2019	0.0024 (J)				
5/29/2019	0.0022 (J)				
6/12/2019	0.002 (J)				
6/19/2019	0.004 (J)				
6/25/2019	0.0014 (J)				
8/8/2019					8.4E-05 (J)
8/9/2019	0.0022	0.00025 (J)	<0.0025		
8/30/2019	0.0039	0.00023 (J)	<0.0025		8.9E-05 (J)
3/17/2020	0.0029	0.00024 (J)	<0.0025		<0.0025
7/13/2020				0.00121 (J)	
11/9/2020			<0.0025		
11/10/2020		0.00024 (J)		<0.0025	
11/20/2020	0.0024 (J)				<0.0025
3/8/2021					<0.0025
3/9/2021	0.0017 (J)	0.00025 (J)	<0.0025	<0.0025	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	2.66					
6/13/2018	2.91					
7/23/2018	3.49					
9/1/2018	3.15					
10/2/2018	3.38					
11/1/2018	2.19					
12/6/2018	2.69					
2/13/2019	2.97					
3/16/2019			0.421	0.765		
3/27/2019			0.499	0.306 (U)		
4/3/2019			0.526	1.12		
4/16/2019			0.73	0.447		
5/3/2019			0.32 (U)	0.357		
5/14/2019			0.431 (U)	0.342 (U)		
5/29/2019			0.205 (U)	0.519 (U)		
6/12/2019			<5	<5		
8/8/2019	2.16		0.535	0.262 (U)		
8/29/2019			0.19 (U)	0.253 (U)		
8/30/2019	2.19					
3/17/2020	2.94		0.596	0.703		
7/13/2020		0.272 (U)				
7/21/2020					2.72	4.86
11/4/2020					1.59	3.79
11/9/2020			0.0786 (U)			
11/20/2020	3.47	-0.129 (U)		0.199 (U)		
3/8/2021	2.86	0.73			3.18	5.04
3/10/2021			0.389	0.594		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				21.8		5.84
6/14/2018				20.9		6.37
7/24/2018				19.2		7.22
9/1/2018				17.5		5.46
10/1/2018				19.9		8.54
11/2/2018				17.4		6.02
12/7/2018				18.5		6.26
2/13/2019				19.2		6.67
3/16/2019			5.87			
3/27/2019			6.56			
4/3/2019			7.03			
4/15/2019			6.75			
5/2/2019			6.82			
5/14/2019			6.96			
5/28/2019			4.12			
6/12/2019			8.8			
8/8/2019			7.52	18.7		6.41
8/30/2019			7.98	16.5		5.45
3/16/2020			10.6	18.8		6.5
7/11/2020					0.179 (U)	
7/21/2020	3.28					
7/30/2020		2.38				
11/3/2020	1.39					
11/4/2020		1.53	8.99			
11/5/2020				15.3	0.158 (U)	5.33
3/8/2021	1.91	2.54	14.2	21.4	0.164 (U)	
3/9/2021						2.68

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		2.4				
4/25/2018				3.67		
6/14/2018		2.5		4.18		
7/24/2018		3.01		4.95		
9/1/2018		2.3		4.44		
10/1/2018		3.49				
10/2/2018				4.79		
11/2/2018		1.94		4		
12/6/2018		2.68		5.01		
2/13/2019		2.05		4.53		
8/9/2019		2.09		3.81		
8/30/2019		1.24		2.82		
3/16/2020		1.71				
3/17/2020				4.23		
7/13/2020	0.857					
7/14/2020			9.33			0.591
7/30/2020					0.29 (UD)	
11/9/2020	0.501	2	6.03	3.42	0.381 (U)	
11/10/2020						0.113 (U)
3/9/2021	0.605	2.08	8.34	4.01	0.24 (U)	
3/10/2021						0.186 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		5.8	3.26		6.49
6/13/2018					6.43
6/14/2018		5.94	3.41		
7/23/2018			4.02		6.82
7/24/2018		6.56			
9/6/2018		7.39	3.86		7.4
10/2/2018		8.19	4.63		7.43
11/1/2018			3.37		6.67
11/2/2018		5.87			
12/6/2018		6.64	3.92		6.92
2/13/2019		6.19	3.66		6.91
4/5/2019	2.85				
4/15/2019	3.24				
5/2/2019	3				
5/14/2019	3.2				
5/29/2019	2.88				
6/12/2019	3.04				
6/19/2019	3.59				
6/25/2019	3.61				
8/8/2019					6.71
8/9/2019	3.14	6.86	3.52		
8/30/2019	2.52	6.63	3.96		7.32
3/17/2020	3.16	5.37	3.43		7.36
7/13/2020				0.898	
11/9/2020			2.55		
11/10/2020		6.91		0.293 (U)	
11/20/2020	3.32				8.11
3/8/2021					9.26
3/9/2021	0.234 (U)	2.66	3.52	-0.149 (U)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	0.69					
6/13/2018	0.64					
7/23/2018	0.76					
9/1/2018	0.81					
10/2/2018	0.78					
11/1/2018	0.88					
12/6/2018	0.75					
2/13/2019	0.72					
3/16/2019			0.047 (J)	0.041 (J)		
3/27/2019			<2 (D)	0.49 (D)		
4/3/2019			<2 (D)	0.086 (JD)		
4/4/2019	0.63					
4/16/2019			0.034 (J)	0.055 (J)		
5/3/2019			0.042 (J)	0.058 (J)		
5/14/2019			0.039 (J)	0.071 (J)		
5/29/2019			<2	0.042 (J)		
6/12/2019			<2	0.037 (J)		
8/8/2019	0.58		0.051 (J)	0.072 (J)		
8/29/2019			0.061 (J)	0.065 (J)		
8/30/2019	0.5					
3/17/2020	0.38		<2	0.036 (J)		
7/13/2020		0.24				
7/21/2020				0.09 (J)	0.07 (J)	
11/4/2020				0.24 (J)	<2	
11/9/2020			<2			
11/20/2020	0.81	0.13 (J)		<2		
3/8/2021	0.66	0.23			0.17 (J)	<2
3/10/2021			0.056 (J)	0.052 (J)		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				0.06 (J)		0.33
6/14/2018				0.06 (J)		0.37
7/24/2018				0.07 (J)		0.42
9/1/2018				0.08 (J)		0.45
10/1/2018				0.07 (J)		0.39
11/2/2018				0.08 (J)		0.42
12/7/2018				4.3 (o)		0.64
2/13/2019				0.05 (J)		0.35
3/16/2019			<2			
3/27/2019			<2			
4/3/2019			<2			
4/5/2019				0.14 (J)		0.7 (J)
4/15/2019			0.14 (J)			
5/2/2019			0.13 (J)			
5/14/2019			<2			
5/28/2019			0.16 (J)			
6/12/2019			<2			
8/8/2019			0.21 (J)	0.19 (J)		0.8 (J)
8/30/2019			0.21 (J)	0.17 (J)		<2
3/16/2020			<2	<2		<2
7/11/2020					0.24	
7/21/2020	0.17					
7/30/2020		0.19				
11/3/2020	<2					
11/4/2020		<2	<2			
11/5/2020				<2	0.15 (J)	<2
3/8/2021	0.41 (J)	0.28 (J)	<2	<2	0.2	
3/9/2021						0.87 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.52				
4/25/2018				0.09 (J)		
6/14/2018		0.51		0.09 (J)		
7/24/2018		0.52		0.09 (J)		
9/1/2018		0.54		0.1		
10/1/2018		0.54				
10/2/2018				0.09 (J)		
11/2/2018		0.58		0.11		
12/6/2018		0.51		1.4 (o)		
2/13/2019		0.48		0.07 (J)		
4/4/2019				<2		
4/5/2019		0.31 (J)				
8/9/2019		0.51		<2		
8/30/2019		0.54 (J)		<2		
3/16/2020		<2				
3/17/2020				<2		
7/13/2020	0.17					
7/14/2020			0.14			0.22
7/30/2020					0.17	
11/9/2020	0.18 (J)	<2	<2	<2	0.17 (J)	
11/10/2020						0.21
3/9/2021	0.18 (J)	0.55 (J)	<2	<2	0.17 (J)	
3/10/2021						0.18 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.11	1		0.06 (J)
6/13/2018					0.06 (J)
6/14/2018		0.12	1		
7/23/2018			1		0.06 (J)
7/24/2018		0.12			
9/6/2018		0.13	1.1		0.06 (J)
10/2/2018		0.13	1		0.07 (J)
11/1/2018			1.1		0.07 (J)
11/2/2018		0.14			
12/6/2018		0.13	0.98		0.21 (o)
2/13/2019		0.1	0.98		0.07 (J)
4/4/2019		<2	0.58 (J)		<2
4/5/2019	<2 (D)				
4/15/2019	<2				
5/2/2019	<2				
5/14/2019	<2				
5/29/2019	<2				
6/12/2019	<2				
6/19/2019	<2				
6/25/2019	0.32 (J)				
8/8/2019					0.2 (J)
8/9/2019	<2	0.22 (J)	0.9 (J)		
8/30/2019	0.27 (J)	0.41 (J)	0.85 (J)		0.18 (J)
3/17/2020	<2	1.6	0.52 (J)		<2
7/13/2020				0.15	
11/9/2020			0.74 (J)		
11/10/2020		<2		0.22	
11/20/2020	<2				<2
3/8/2021					<2
3/9/2021	<2	0.26 (J)	1.1 (J)	0.17 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.001					
6/13/2018	<0.001					
7/23/2018	<0.001					
9/1/2018	<0.001					
10/2/2018	<0.001					
11/1/2018	0.0011 (J)					
12/6/2018	0.0006 (J)					
2/13/2019	<0.001					
3/16/2019			<0.001	<0.001		
3/27/2019			<0.001 (D)	<0.001 (D)		
4/3/2019			<0.001 (D)	<0.001 (D)		
4/16/2019			<0.001	<0.001		
5/3/2019			<0.001	<0.001		
5/14/2019			<0.001	<0.001		
5/29/2019			<0.001	<0.001		
6/12/2019			<0.001	<0.001		
8/8/2019	<0.001		<0.001	<0.001		
8/29/2019			<0.001	0.00017 (J)		
8/30/2019	<0.001					
3/17/2020	<0.001		<0.001	<0.001		
7/13/2020		0.00116 (J)				
7/21/2020				<0.001	<0.001	
11/4/2020				<0.001	<0.001	
11/9/2020			<0.001			
11/20/2020	<0.001	0.00089 (J)		<0.001		
3/8/2021	0.00016 (J)	0.00086 (J)			<0.001	<0.001
3/10/2021			<0.001	<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.001		<0.001
6/14/2018				<0.001		<0.001
7/24/2018				<0.001		<0.001
9/1/2018				<0.001		<0.001
10/1/2018				<0.001		<0.001
11/2/2018				<0.001		0.00048 (J)
12/7/2018				<0.001		<0.001
2/13/2019				<0.001		<0.001
3/16/2019			<0.001			
3/27/2019			<0.001			
4/3/2019			<0.001			
4/15/2019			<0.001			
5/2/2019			<0.001			
5/14/2019			<0.001			
5/28/2019			<0.001			
6/12/2019			<0.001			
8/8/2019			<0.001	<0.001		<0.001
8/30/2019			<0.001	<0.001		<0.001
3/16/2020			<0.001	<0.001		<0.001
7/11/2020					0.000555 (J)	
7/21/2020	<0.001					
7/30/2020		<0.001				
11/3/2020	<0.001					
11/4/2020		<0.001	<0.001			
11/5/2020				<0.001	0.00024 (J)	<0.001
3/8/2021	<0.001	<0.001	<0.001	<0.001	0.00016 (J)	
3/9/2021						<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		<0.001				
4/25/2018				<0.001		
6/14/2018		<0.001		<0.001		
7/24/2018		<0.001		<0.001		
9/1/2018		<0.001		<0.001		
10/1/2018		<0.001				
10/2/2018				<0.001		
11/2/2018		0.00062 (J)		0.0011 (J)		
12/6/2018		<0.001		0.00041 (J)		
2/13/2019		<0.001		0.00036 (J)		
8/9/2019		<0.001		<0.001		
8/30/2019		<0.001		<0.001		
3/16/2020		<0.001				
3/17/2020				<0.001		
7/13/2020	<0.001					
7/14/2020			<0.001			<0.001
7/30/2020					0.00203	
11/9/2020	<0.001	<0.001	<0.001	<0.001	0.00099 (J)	
11/10/2020						<0.001
3/9/2021	<0.001	<0.001	<0.001	<0.001	0.00026 (J)	
3/10/2021						<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.001	<0.001		<0.001
6/13/2018					<0.001
6/14/2018		<0.001	<0.001		
7/23/2018			<0.001		<0.001
7/24/2018		<0.001			
9/6/2018		<0.001	<0.001		<0.001
10/2/2018		<0.001	<0.001		<0.001
11/1/2018			0.0016		<0.001
11/2/2018		0.0019			
12/6/2018		<0.001	0.0013		0.00039 (J)
2/13/2019		<0.001	<0.001		<0.001
4/5/2019	<0.001 (D)				
4/15/2019	<0.001				
5/2/2019	<0.001				
5/14/2019	<0.001				
5/29/2019	<0.001				
6/12/2019	<0.001				
6/19/2019	<0.001				
6/25/2019	<0.001				
8/8/2019					0.00013 (J)
8/9/2019	<0.001	<0.001	<0.001		
8/30/2019	0.00032 (J)	<0.001	<0.001		<0.001
3/17/2020	<0.001	<0.001	<0.001		<0.001
7/13/2020				<0.001	
11/9/2020			<0.001		
11/10/2020		<0.001		<0.001	
11/20/2020	<0.001				<0.001
3/8/2021					<0.001
3/9/2021	<0.001	<0.001	<0.001	<0.001	

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	0.021					
6/13/2018	0.013					
7/23/2018	0.015					
9/1/2018	0.015					
10/2/2018	0.017					
11/1/2018	0.038					
12/6/2018	0.011					
2/13/2019	0.012					
3/16/2019			0.0088	0.012		
3/27/2019			0.01 (D)	0.012 (D)		
4/3/2019			0.0068 (D)	0.013 (D)		
4/16/2019			0.0081	0.012		
5/3/2019			0.01	0.015		
5/14/2019			0.011	0.015		
5/29/2019			0.0062	0.015		
6/12/2019			0.0099	0.013		
8/8/2019	0.018		0.012	0.016		
8/29/2019			0.0067	0.011		
8/30/2019	0.01					
3/17/2020	0.017		0.014	0.017		
7/13/2020		0.0136				
7/21/2020					0.00196 (J)	<0.005
11/4/2020					0.016	<0.005
11/9/2020			0.011			
11/20/2020	0.013	0.011		0.015		
3/8/2021	0.01	0.022			0.0042 (J)	<0.005
3/10/2021			0.012	0.017		

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				0.029		0.11
6/14/2018				0.023		0.073
7/24/2018				0.023		0.079
9/1/2018				0.022		0.088
10/1/2018				0.026		0.091
11/2/2018				0.024 (J)		0.081
12/7/2018				0.022		0.072
2/13/2019				0.02		0.071
3/16/2019			0.013			
3/27/2019			0.014			
4/3/2019			0.01			
4/15/2019			0.012			
5/2/2019			0.013			
5/14/2019			0.011			
5/28/2019			<0.005			
6/12/2019			0.012			
8/8/2019			0.012	0.031		0.076
8/30/2019			0.011	0.022		0.072
3/16/2020			0.013	0.03		0.07
7/11/2020					0.0103	
7/21/2020	0.00623					
7/30/2020		0.00523				
11/3/2020	0.03					
11/4/2020		0.029	0.014			
11/5/2020				0.031	0.01	0.07
3/8/2021	0.008	0.0086	0.013	0.03	0.0091	
3/9/2021						0.075

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.079				
4/25/2018				0.069		
6/14/2018		0.055		0.046		
7/24/2018		0.057		0.049		
9/1/2018		0.054		0.045		
10/1/2018		0.063				
10/2/2018				0.052		
11/2/2018		0.077		0.074		
12/6/2018		0.054		0.044		
2/13/2019		0.053		0.045		
8/9/2019		0.061		0.049		
8/30/2019		0.052		0.044		
3/16/2020		0.053				
3/17/2020				0.044		
7/13/2020	0.00778					
7/14/2020			0.0522			0.00696
7/30/2020					0.00791	
11/9/2020	0.006	0.049	0.043	0.044	0.0076	
11/10/2020						0.0063
3/9/2021	0.0098	0.051	0.044	0.048	0.0099	
3/10/2021						0.0059

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.004 (J)	0.13		0.0039 (J)
6/13/2018					0.0027 (J)
6/14/2018		0.0026 (J)	0.085		
7/23/2018			0.09		0.0041 (J)
7/24/2018		0.003 (J)			
9/6/2018		0.0029 (J)	0.099		0.0035 (J)
10/2/2018		0.0021 (J)	0.095		0.004 (J)
11/1/2018			0.16		0.018 (o)
11/2/2018		0.014 (o)			
12/6/2018		<0.005	0.082		<0.005
2/13/2019		0.0018 (J)	0.08		0.0026 (J)
4/5/2019	0.051 (D)				
4/15/2019	0.054				
5/2/2019	0.055				
5/14/2019	0.047				
5/29/2019	0.055				
6/12/2019	0.062				
6/19/2019	0.059				
6/25/2019	0.052				
8/8/2019					0.0053
8/9/2019	0.063	<0.005	0.086		
8/30/2019	0.059	<0.005	0.068		<0.005
3/17/2020	0.056	0.0071	0.08		0.0077
7/13/2020				<0.005	
11/9/2020			0.08		
11/10/2020		0.0048 (J)		0.0044 (J)	
11/20/2020	0.055				0.0035 (J)
3/8/2021					0.0045 (J)
3/9/2021	0.057	0.004 (J)	0.073	0.005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.0002					
6/13/2018	<0.0002					
7/23/2018	<0.0002					
9/1/2018	8.5E-05 (J)					
10/2/2018	<0.0002					
11/1/2018	<0.0002					
12/6/2018	<0.0002					
2/13/2019	<0.0002					
3/16/2019			<0.0002	9.7E-05 (J)		
3/27/2019			<0.0002 (D)	<0.0002 (D)		
4/3/2019			<0.0002 (D)	<0.0002 (D)		
4/16/2019			<0.0002	<0.0002		
5/3/2019			<0.0002	<0.0002		
5/14/2019			7.1E-05 (J)	<0.0002		
5/29/2019			<0.0002	<0.0002		
6/12/2019			<0.0002	<0.0002		
8/8/2019	<0.0002		<0.0002	<0.0002		
7/13/2020		<0.0002				
7/21/2020					<0.0002	<0.0002
11/4/2020					<0.0002	<0.0002
11/9/2020			<0.0002			
11/20/2020	<0.0002	<0.0002		<0.0002		
3/8/2021	<0.0002	<0.0002			<0.0002	<0.0002
3/10/2021			<0.0002	<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.0002		<0.0002
6/14/2018				<0.0002		<0.0002
7/24/2018				<0.0002		<0.0002
9/1/2018				<0.0002		<0.0002
10/1/2018				<0.0002		<0.0002
11/2/2018				<0.0002		<0.0002
12/7/2018				<0.0002		<0.0002
2/13/2019				<0.0002		<0.0002
3/16/2019			<0.0002			
3/27/2019			<0.0002			
4/3/2019			<0.0002			
4/15/2019			0.00015 (J)			
5/2/2019			<0.0002			
5/14/2019			<0.0002			
5/28/2019			<0.0002			
6/12/2019			<0.0002			
8/8/2019			<0.0002	<0.0002		<0.0002
7/11/2020					<0.0002	
7/21/2020	<0.0002					
7/30/2020		<0.0002				
11/3/2020	<0.0002					
11/4/2020		<0.0002	<0.0002			
11/5/2020				<0.0002	<0.0002	<0.0002
3/8/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/9/2021						<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		<0.0002				
4/25/2018				<0.0002		
6/14/2018		<0.0002		<0.0002		
7/24/2018		<0.0002		<0.0002		
9/1/2018		<0.0002		9.3E-05 (J)		
10/1/2018		<0.0002				
10/2/2018				<0.0002		
11/2/2018		<0.0002		<0.0002		
12/6/2018		<0.0002		<0.0002		
2/13/2019		<0.0002		<0.0002		
8/9/2019		<0.0002		<0.0002		
7/13/2020	<0.0002					
7/14/2020			<0.0002			<0.0002
7/30/2020					<0.0002	
11/9/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
11/10/2020						<0.0002
3/9/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/10/2021						<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.0002	<0.0002		<0.0002
6/13/2018					<0.0002
6/14/2018		<0.0002	<0.0002		
7/23/2018			<0.0002		<0.0002
7/24/2018		<0.0002			
9/6/2018		9E-05 (J)	7.7E-05 (J)		0.00035
10/2/2018		<0.0002	<0.0002		<0.0002
11/1/2018			<0.0002		<0.0002
11/2/2018		<0.0002			
12/6/2018		<0.0002	<0.0002		<0.0002
2/13/2019		<0.0002	<0.0002		<0.0002
4/5/2019	<0.0002 (D)				
4/15/2019	<0.0002				
5/2/2019	<0.0002				
5/14/2019	<0.0002				
5/29/2019	<0.0002				
6/12/2019	<0.0002				
6/19/2019	<0.0002				
6/25/2019	<0.0002				
8/8/2019					<0.0002
8/9/2019	<0.0002	<0.0002	<0.0002		
7/13/2020				<0.0002	
11/9/2020			<0.0002		
11/10/2020		<0.0002		<0.0002	
11/20/2020	<0.0002				<0.0002
3/8/2021					<0.0002
3/9/2021	<0.0002	<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	0.11					
6/13/2018	0.09					
7/23/2018	0.11					
9/1/2018	0.11					
10/2/2018	0.1					
11/1/2018	0.11					
12/6/2018	0.1					
2/13/2019	0.085					
3/16/2019			<0.015	<0.015		
3/27/2019			<0.015 (D)	<0.015 (D)		
4/3/2019			<0.015 (D)	<0.015 (D)		
4/16/2019			<0.015	<0.015		
5/3/2019			<0.015	<0.015		
5/14/2019			<0.015	<0.015		
5/29/2019			<0.015	<0.015		
6/12/2019			<0.015	<0.015		
8/8/2019	0.11		<0.015	<0.015		
8/29/2019			<0.015	<0.015		
8/30/2019	0.078					
3/17/2020	0.081		<0.015	<0.015		
7/13/2020		0.00884 (J)				
7/21/2020				<0.015	<0.015	
11/4/2020				<0.015	<0.015	
11/9/2020			<0.015			
11/20/2020	0.059	0.017		<0.015		
3/8/2021	0.055	0.0096 (J)			<0.015	<0.015
3/10/2021			<0.015	<0.015		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.015		0.073
6/14/2018				<0.015		0.068
7/24/2018				<0.015		0.065
9/1/2018				<0.015		0.05
10/1/2018				<0.015		0.061
11/2/2018				<0.015		0.062
12/7/2018				<0.015		0.062
2/13/2019				<0.015		0.061
3/16/2019			<0.015			
3/27/2019			<0.015			
4/3/2019			<0.015			
4/15/2019			<0.015			
5/2/2019			<0.015			
5/14/2019			<0.015			
5/28/2019			<0.015			
6/12/2019			<0.015			
8/8/2019			<0.015	0.00079 (J)		0.073
8/30/2019			<0.015	<0.015		0.065
3/16/2020			<0.015	<0.015		0.072
7/11/2020					0.00558 (J)	
7/21/2020	<0.015					
7/30/2020		<0.015				
11/3/2020	0.00082 (J)					
11/4/2020		0.0009 (J)	<0.015			
11/5/2020				<0.015	0.0038 (J)	0.067
3/8/2021	<0.015	<0.015	<0.015	<0.015	0.0018 (J)	
3/9/2021						0.076

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.011 (J)				
4/25/2018				0.056		
6/14/2018		0.0083 (J)		0.048		
7/24/2018		0.0075 (J)		0.078		
9/1/2018		0.0082 (J)		0.081		
10/1/2018		0.0088 (J)				
10/2/2018				0.07		
11/2/2018		0.0083 (J)		0.1		
12/6/2018		0.0093 (J)		0.069		
2/13/2019		0.0093 (J)		0.1		
8/9/2019		0.012		0.15		
8/30/2019		0.011		0.088		
3/16/2020		0.01				
3/17/2020				0.079		
7/13/2020	<0.015					
7/14/2020			0.257			<0.015
7/30/2020					<0.015	
11/9/2020	0.0022 (J)	0.0084 (J)	0.35	0.11	0.0012 (J)	
11/10/2020						0.00081 (J)
3/9/2021	0.0012 (J)	0.0059 (J)	0.37	0.072	0.00091 (J)	
3/10/2021						0.0011 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.00096 (J)	0.18		<0.015
6/13/2018					<0.015
6/14/2018		0.0062 (J)	0.17		
7/23/2018			0.17		<0.015
7/24/2018		0.0063 (J)			
9/6/2018		<0.015	0.15		<0.015
10/2/2018		<0.015	0.15		0.0009 (J)
11/1/2018			0.16		<0.015
11/2/2018		0.0066 (J)			
12/6/2018		0.0062 (J)	0.14		<0.015
2/13/2019		0.0047 (J)	0.13		<0.015
4/5/2019	0.41 (D)				
4/15/2019	0.4				
5/2/2019	0.3				
5/14/2019	0.36				
5/29/2019	0.4				
6/12/2019	0.34				
6/19/2019	0.41				
6/25/2019	0.37				
8/8/2019					<0.015
8/9/2019	0.48	<0.015	0.12		
8/30/2019	0.42	<0.015	0.11		0.00093 (J)
3/17/2020	0.47	<0.015	0.094		<0.015
7/13/2020				<0.015	
11/9/2020			0.072		
11/10/2020		<0.015		0.00067 (J)	
11/20/2020	0.42				<0.015
3/8/2021					<0.015
3/9/2021	0.48	<0.015	0.069	<0.015	

Time Series

Constituent: pH (SU) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	6.7					
6/13/2018	6.64					
7/23/2018	6.76					
9/1/2018	6.9					
10/2/2018	6.77					
11/1/2018	6.89					
12/6/2018	6.89					
2/13/2019	6.81					
3/16/2019			6.97	6.44		
3/27/2019			6.7	6.38		
4/3/2019			6.45	6.19		
4/4/2019	6.74					
4/16/2019			6.52	6.3		
5/3/2019			6.37	6.33		
5/14/2019			6.57	6.64		
5/29/2019			6.31	6.6		
6/12/2019			6.41	6.31		
8/8/2019	6.84		6.29	6.12		
8/29/2019			6.2	6.24		
8/30/2019	7.09					
3/17/2020	6.93		6.2	6.2		
7/13/2020		8.94				
7/21/2020				6.01	6.08	
11/4/2020				6.01	6.03	
11/9/2020			6.21			
11/20/2020	6.94	8.86		6.31		
3/8/2021	7.61	9.38			5.97	5.99
3/10/2021			6.29			

Time Series

Constituent: pH (SU) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				5.89		6.46
6/14/2018				5.96		6.5
7/24/2018				6.03		6.6
9/1/2018				6.23		6.74
10/1/2018				5.94		6.51
11/2/2018				5.98		6.55
12/7/2018				5.98		6.55
2/13/2019				6.09		6.69
3/16/2019			6.67			
3/27/2019			6.59			
4/3/2019			6.56			
4/5/2019				6.03		6.7
4/15/2019			6.68			
5/2/2019			6.78			
5/14/2019			6.7			
5/28/2019			6.56			
6/12/2019			6.69			
8/8/2019			6.68	6.03		6.7
8/30/2019			6.72	6.1		6.75
3/16/2020			6.51	5.91		6.61
7/11/2020					7.84	
7/21/2020	6.51					
7/30/2020		6.48				
11/3/2020	6.51					
11/4/2020		6.58	6.45			
11/5/2020				5.92	7.79	6.58
3/8/2021	6.41	6.48	6.4	5.97		
3/9/2021						6.48

Time Series

Constituent: pH (SU) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		6.31				
4/25/2018				6.04		
6/14/2018		6.28		6.29		
7/24/2018		6.34		6.35		
9/1/2018		6.33		6.38		
10/1/2018		6.36				
10/2/2018				6.47		
11/2/2018		6.43		6.42		
12/6/2018		6.43		6.42		
2/13/2019		6.48		6.42		
4/4/2019				6.35		
4/5/2019		6.33				
8/9/2019		6.69		6.42		
8/30/2019		6.68		6.47		
3/16/2020		6.71				
3/17/2020				6.32		
7/13/2020	6.88					
7/14/2020			6.89			7.07
7/30/2020					6.67	
11/9/2020	6.86	6.37	6.89	6.37	6.71	
3/9/2021	7.02	6.27	6.83	6.32	6.62	
3/10/2021						6.81

Time Series

Constituent: pH (SU) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		6.31	6.69		6.19
6/13/2018					6.18
6/14/2018		6.25	6.66		
7/23/2018			6.7		6.19
7/24/2018		6.34			
9/6/2018		6.29	6.66		6.13
10/2/2018		6.28	6.63		6.13
11/1/2018			6.75		6.25
11/2/2018		6.4			
12/6/2018		6.4	6.75		6.25
2/13/2019		6.37	6.7		6.24
4/4/2019		6.33	6.72		6.17
4/5/2019	6.12				
4/15/2019	6.14				
5/2/2019	6.19				
5/14/2019	6.12				
5/29/2019	6.11				
6/12/2019	6.09				
6/19/2019	6.1				
6/25/2019	6.18				
8/8/2019					6.23
8/9/2019	6.03	6.34	6.74		
8/30/2019	5.92	6.31	6.68		6.1
3/17/2020	5.97	6.57	6.69		
7/13/2020				6.77	
11/9/2020			6.74		
11/10/2020		6.37		7.06	
11/20/2020	6.09				6.23
3/8/2021					7
3/9/2021	6.13	6.39	6.74	7.1	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	0.00061 (J)					
6/13/2018	0.00034 (J)					
7/23/2018	0.00035 (J)					
9/1/2018	<0.005					
10/2/2018	<0.005					
11/1/2018	<0.005					
12/6/2018	<0.005					
2/13/2019	<0.005					
3/16/2019			<0.005	<0.005		
3/27/2019			<0.005 (D)	<0.005 (D)		
4/3/2019			<0.005 (D)	<0.005 (D)		
4/16/2019			<0.005	<0.005		
5/3/2019			<0.005	<0.005		
5/14/2019			<0.005	<0.005		
5/29/2019			<0.005	<0.005		
6/12/2019			<0.005	<0.005		
8/8/2019	<0.005		<0.005	<0.005		
8/29/2019			<0.005	<0.005		
8/30/2019	<0.005					
3/17/2020	<0.005		<0.005	<0.005		
7/13/2020		<0.005				
7/21/2020				<0.005	<0.005	
11/4/2020				<0.005	<0.005	
11/9/2020			<0.005			
11/20/2020	<0.005	<0.005		<0.005		
3/8/2021	<0.005	<0.005			<0.005	<0.005
3/10/2021			<0.005	<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.005		0.0016
6/14/2018				0.00061 (J)		0.0019
7/24/2018				0.00037 (J)		0.00087 (J)
9/1/2018				<0.005		0.001 (J)
10/1/2018				<0.005		<0.005
11/2/2018				0.00072 (J)		0.001 (J)
12/7/2018				<0.005		0.0011 (J)
2/13/2019				<0.005		<0.005
3/16/2019			<0.005			
3/27/2019			<0.005			
4/3/2019			<0.005			
4/15/2019			<0.005			
5/2/2019			<0.005			
5/14/2019			<0.005			
5/28/2019			<0.005			
6/12/2019			<0.005			
8/8/2019			<0.005	<0.005		0.0017 (J)
8/30/2019			<0.005	<0.005		<0.005
3/16/2020			<0.005	<0.005		<0.005
7/11/2020					<0.005	
7/21/2020	<0.005					
7/30/2020		<0.005				
11/3/2020	<0.005					
11/4/2020		<0.005	<0.005			
11/5/2020				<0.005	<0.005	<0.005
3/8/2021	<0.005	<0.005	<0.005	<0.005	<0.005	
3/9/2021						<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		0.00055 (J)				
4/25/2018				0.00071 (J)		
6/14/2018		0.00068 (J)		0.0006 (J)		
7/24/2018		0.00036 (J)		0.0006 (J)		
9/1/2018		<0.005		<0.005		
10/1/2018		<0.005				
10/2/2018				<0.005		
11/2/2018		<0.005		<0.005		
12/6/2018		<0.005		<0.005		
2/13/2019		<0.005		<0.005		
8/9/2019		<0.005		<0.005		
8/30/2019		<0.005		<0.005		
3/16/2020		<0.005				
3/17/2020				<0.005		
7/13/2020	<0.005					
7/14/2020			<0.005			<0.005
7/30/2020					<0.005	
11/9/2020	<0.005	<0.005	<0.005	<0.005	<0.005	
11/10/2020						<0.005
3/9/2021	<0.005	<0.005	<0.005	<0.005	<0.005	
3/10/2021						<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		0.00046 (J)	0.00042 (J)		0.00081 (J)
6/13/2018					0.00027 (J)
6/14/2018		0.00039 (J)	0.00049 (J)		
7/23/2018			0.0006 (J)		0.00041 (J)
7/24/2018		0.00036 (J)			
9/6/2018		<0.005	<0.005		<0.005
10/2/2018		<0.005	<0.005		<0.005
11/1/2018			<0.005		<0.005
11/2/2018		<0.005			
12/6/2018		<0.005	<0.005		<0.005
2/13/2019		<0.005	<0.005		<0.005
4/5/2019	<0.005 (D)				
4/15/2019	<0.005				
5/2/2019	<0.005				
5/14/2019	<0.005				
5/29/2019	<0.005				
6/12/2019	<0.005				
6/19/2019	<0.005				
6/25/2019	<0.005				
8/8/2019					<0.005
8/9/2019	<0.005	<0.005	<0.005		
8/30/2019	<0.005	<0.005	<0.005		<0.005
3/17/2020	<0.005	<0.005	<0.005		<0.005
7/13/2020				<0.005	
11/9/2020			<0.005		
11/10/2020		<0.005		<0.005	
11/20/2020	<0.005				<0.005
3/8/2021					<0.005
3/9/2021	<0.005	<0.005	<0.005	<0.005	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	290					
6/13/2018	310					
7/23/2018	300					
9/1/2018	290					
10/2/2018	300					
11/1/2018	290					
12/6/2018	290					
2/13/2019	230					
3/16/2019			3.6	0.88 (J)		
3/27/2019			0.81 (JD)	1.3 (D)		
4/3/2019			1.1 (D)	1.9 (D)		
4/4/2019	240					
4/16/2019			0.68 (J)	2.5		
5/3/2019			1.1	1.3		
5/14/2019			1.3	2.2		
5/29/2019			2.1	1.2		
6/12/2019			1.9	1.1		
8/29/2019			2.3	1.1		
8/30/2019	160					
3/17/2020	110		3.7	3.2		
7/13/2020		5.31				
7/21/2020					802	713
11/4/2020					1700	670
11/9/2020			0.51 (J)			
11/20/2020	50	2.9		0.79 (J)		
3/8/2021	24	3			720	740
3/10/2021			<1	1.1		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<1		1200
6/14/2018				7.2		1200
7/24/2018				2.7 (J)		1100
9/1/2018				1.5 (J)		1200
10/1/2018				<1		1200
11/2/2018				1.9 (J)		1000
12/7/2018				<1		1100
2/13/2019				1.5 (J)		1100
3/16/2019			14			
3/27/2019			19			
4/3/2019			4.6 (J)			
4/5/2019				7		1200
4/15/2019			8.6			
5/2/2019			6			
5/14/2019			5.8			
5/28/2019			9.4			
6/12/2019			8.8			
8/30/2019			13	8.4		1100
3/16/2020			23	16		1100
7/11/2020					10.6	
7/21/2020	52.9					
7/30/2020		33.4				
11/3/2020	550					
11/4/2020		440	10			
11/5/2020				4.4 (J)	13	1000
3/8/2021	97	72	12	5.7	4.6	
3/9/2021						1100

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		340				
4/25/2018				920		
6/14/2018		350		980		
7/24/2018		310		950		
9/1/2018		300		980		
10/1/2018		330				
10/2/2018				960		
11/2/2018		310		860		
12/6/2018		300		990		
2/13/2019		320		930		
4/4/2019				1100		
4/5/2019		330				
8/30/2019		330		940		
3/16/2020		330				
3/17/2020				910		
7/13/2020	8.05					
7/14/2020			554			33.5
7/30/2020					12.7	
11/9/2020	5.8	320	560	1000	13	
11/10/2020						20
3/9/2021	11	320	520	910	11	
3/10/2021						14

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		65	670		270
6/13/2018					300
6/14/2018		81	650		
7/23/2018			610		280
7/24/2018		52			
9/6/2018		53	690		270
10/2/2018		34	650		280
11/1/2018			610		270
11/2/2018		35			
12/6/2018		65	660		300
2/13/2019		74	600		280
4/4/2019		61	640		330
4/5/2019	800 (D)				
4/15/2019	700				
5/2/2019	810				
5/14/2019	810				
5/29/2019	830				
6/12/2019	830				
6/19/2019	810				
6/25/2019	800				
8/30/2019	800	83	620		280
3/17/2020	590	430	680		290
7/13/2020				10.5	
11/9/2020			590		
11/10/2020		64		1.8	
11/20/2020	790				270
3/8/2021					280
3/9/2021	830	100	630	0.84 (J)	

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	<0.001					
6/13/2018	<0.001					
7/23/2018	<0.001					
9/1/2018	<0.001					
10/2/2018	<0.001					
11/1/2018	<0.001					
12/6/2018	<0.001					
2/13/2019	<0.001					
3/16/2019			<0.001	<0.001		
3/27/2019			<0.001 (D)	<0.001 (D)		
4/3/2019			<0.001 (D)	<0.001 (D)		
4/16/2019			<0.001	<0.001		
5/3/2019			<0.001	<0.001		
5/14/2019			<0.001	<0.001		
5/29/2019			<0.001	<0.001		
6/12/2019			<0.001	<0.001		
8/8/2019	0.00015 (J)		<0.001	<0.001		
8/29/2019			0.00015 (J)	0.00017 (J)		
8/30/2019	0.00058 (J)					
3/17/2020	<0.001		<0.001	<0.001		
7/13/2020		<0.001				
7/21/2020				<0.001	<0.001	
11/4/2020				<0.001	<0.001	
11/9/2020			<0.001			
11/20/2020	<0.001	<0.001		<0.001		
3/8/2021	0.00068 (J)	0.00057 (J)			<0.001	<0.001
3/10/2021			<0.001	<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				<0.001		0.00012 (J)
6/14/2018				<0.001		<0.001
7/24/2018				<0.001		<0.001
9/1/2018				<0.001		<0.001
10/1/2018				<0.001		<0.001
11/2/2018				<0.001		<0.001
12/7/2018				<0.001		<0.001
2/13/2019				<0.001		<0.001
3/16/2019			<0.001			
3/27/2019			<0.001			
4/3/2019			<0.001			
4/15/2019			<0.001			
5/2/2019			<0.001			
5/14/2019			<0.001			
5/28/2019			<0.001			
6/12/2019			<0.001			
8/8/2019			<0.001	0.00084 (J)		<0.001
8/30/2019			<0.001	<0.001		<0.001
3/16/2020			<0.001	<0.001		<0.001
7/11/2020					<0.001	
7/21/2020	<0.001					
7/30/2020		<0.001				
11/3/2020	<0.001					
11/4/2020		<0.001	0.00019 (J)			
11/5/2020				<0.001	<0.001	<0.001
3/8/2021	<0.001	<0.001	<0.001	<0.001	<0.001	
3/9/2021						<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		<0.001				
4/25/2018				<0.001		
6/14/2018		<0.001		<0.001		
7/24/2018		<0.001		<0.001		
9/1/2018		<0.001		<0.001		
10/1/2018		<0.001				
10/2/2018				<0.001		
11/2/2018		<0.001		<0.001		
12/6/2018		<0.001		<0.001		
2/13/2019		<0.001		<0.001		
8/9/2019		<0.001		<0.001		
8/30/2019		<0.001		<0.001		
3/16/2020		<0.001				
3/17/2020				<0.001		
7/13/2020	<0.001					
7/14/2020			<0.001			<0.001
7/30/2020					<0.001	
11/9/2020	<0.001	<0.001	<0.001	<0.001	<0.001	
11/10/2020						<0.001
3/9/2021	<0.001	<0.001	<0.001	<0.001	<0.001	
3/10/2021						<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/3/2021 2:27 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		<0.001	<0.001		<0.001
6/13/2018					<0.001
6/14/2018		<0.001	<0.001		
7/23/2018			<0.001		<0.001
7/24/2018		<0.001			
9/6/2018		<0.001	<0.001		<0.001
10/2/2018		<0.001	<0.001		<0.001
11/1/2018			<0.001		<0.001
11/2/2018		<0.001			
12/6/2018		<0.001	<0.001		<0.001
2/13/2019		<0.001	<0.001		<0.001
4/5/2019	<0.001 (D)				
4/15/2019	<0.001				
5/2/2019	<0.001				
5/14/2019	<0.001				
5/29/2019	<0.001				
6/12/2019	<0.001				
6/19/2019	<0.001				
6/25/2019	<0.001				
8/8/2019					<0.001
8/9/2019	<0.001	<0.001	0.00025 (J)		
8/30/2019	<0.001	<0.001	0.0013		0.0016
3/17/2020	<0.001	<0.001	<0.001		<0.001
7/13/2020				<0.001	
11/9/2020			<0.001		
11/10/2020		<0.001		<0.001	
11/20/2020	<0.001				<0.001
3/8/2021					0.00024 (J)
3/9/2021	<0.001	<0.001	0.00017 (J)	<0.001	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-10	APMW-10D	APMW-11 (bg)	APMW-12 (bg)	APMW-13 (bg)	APMW-14 (bg)
4/25/2018	2500					
6/13/2018	2900					
7/23/2018	3100					
9/1/2018	2700					
10/2/2018	2900					
11/1/2018	2700					
12/6/2018	2600					
2/13/2019	2800					
3/16/2019			120	150		
3/27/2019			63 (D)	110 (D)		
4/3/2019			100 (D)	150 (D)		
4/4/2019	2500					
4/16/2019			110	150		
5/3/2019			91	130		
5/14/2019			120	150		
5/29/2019			140	180		
6/12/2019			100	130		
8/29/2019			73	110		
8/30/2019	2200					
3/17/2020	2700		95	120		
7/13/2020		152				
7/21/2020					3760	6350
11/4/2020					5400	6500
11/9/2020			68			
11/20/2020	2100	180		160		
3/8/2021	2100	160			3600	6800
3/10/2021			89	140		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-15 (bg)	APMW-16 (bg)	APMW-1R	APMW-2	APMW-2D	APMW-3
4/24/2018				4800		18000
6/14/2018				5700		13000
7/24/2018				6000		18000
9/1/2018				6300		20000
10/1/2018				6500		20000
11/2/2018				3800		19000
12/7/2018				5300		13000
2/13/2019				6200		16000
3/16/2019			3300			
3/27/2019			2900			
4/3/2019			3600			
4/5/2019				5000		18000
4/15/2019			3300			
5/2/2019			3300			
5/14/2019			3600			
5/28/2019			3500			
8/30/2019			3500	4400		18000
3/16/2020			4500	4400		16000
7/11/2020					170	
7/21/2020	5400					
7/30/2020		5020				
11/3/2020	9200					
11/4/2020		8500	5000			
11/5/2020				4100	190	19000
3/8/2021	6200	5100	5200	4300	160	
3/9/2021						22000

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-3D	APMW-4	APMW-4D	APMW-5	APMW-5D	APMW-6D
4/24/2018		7700				
4/25/2018				16000		
6/14/2018		7200		14000		
7/24/2018		7000		15000		
9/1/2018		7800		16000		
10/1/2018		8400				
10/2/2018				17000		
11/2/2018		7600		15000		
12/6/2018		7400		14000		
2/13/2019		7700		16000		
4/4/2019				18000		
4/5/2019		7000				
8/30/2019		5800		16000		
3/16/2020		6100				
3/17/2020				15000		
7/13/2020	152					
7/14/2020			14800			184
7/30/2020					133 (D)	
11/9/2020	170	5400	16000	14000	130	
11/10/2020						150
3/9/2021	230	5500	19000	20000	150	
3/10/2021						160

Time Series

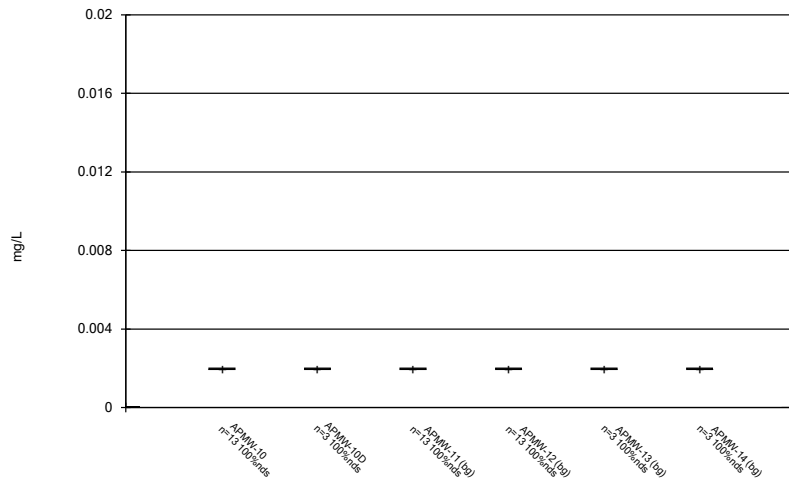
Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2021 2:27 PM

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-6R	APMW-7	APMW-8	APMW-8D	APMW-9
4/25/2018		7500	6400		5800
6/13/2018					5800
6/14/2018		7000	6000		
7/23/2018			7200		5800
7/24/2018		7200			
9/6/2018		7000	7800		6300
10/2/2018		7400	8200		6500
11/1/2018			7300		5000
11/2/2018		6900			
12/6/2018		6900	8300		6000
2/13/2019		8200	8900		6700
4/4/2019		8100	7700		4500
4/5/2019	7800 (D)				
4/15/2019	6600				
5/2/2019	7400				
5/14/2019	8300				
5/29/2019	8600				
6/12/2019	6800				
6/19/2019	7100				
6/25/2019	8500				
8/30/2019	6600	6900	6300		4900
3/17/2020	7200	6900	6400		5400
7/13/2020				148	
11/9/2020			7100		
11/10/2020				150	
11/20/2020	7400	7100			6000
3/8/2021					6300
3/9/2021	8800	7800	8100	170	

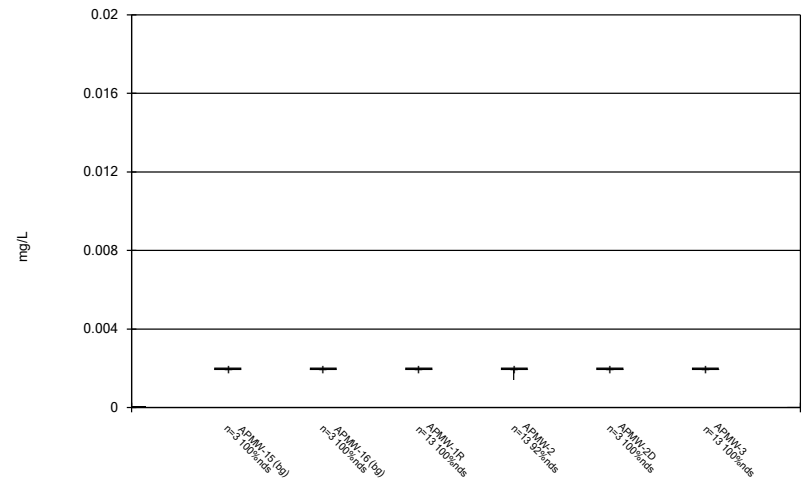
Box Plots

Box & Whiskers Plot



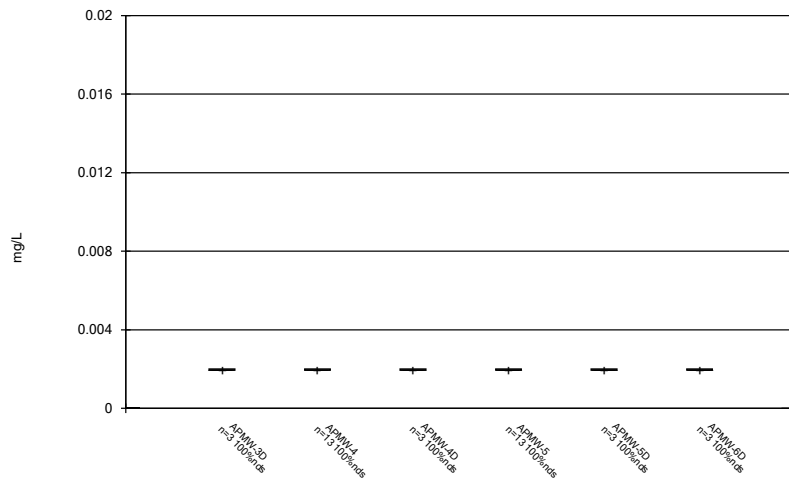
Constituent: Antimony Analysis Run 5/3/2021 2:29 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



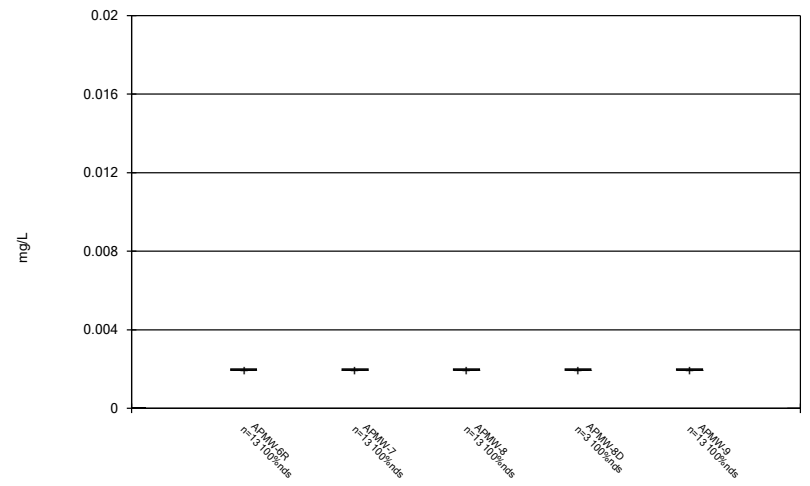
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



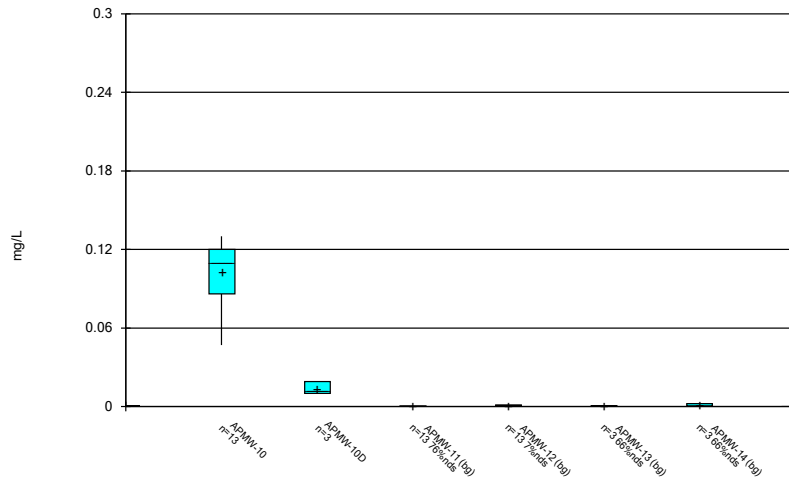
Constituent: Antimony Analysis Run 5/3/2021 2:29 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



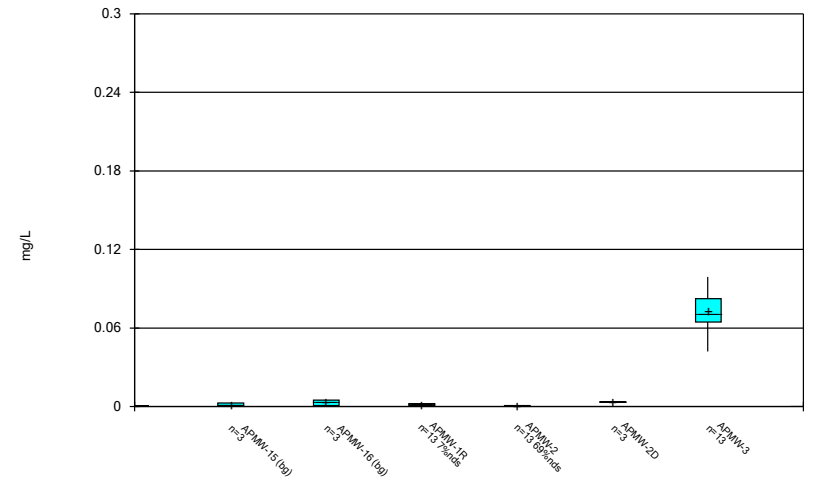
Constituent: Antimony Analysis Run 5/3/2021 2:29 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



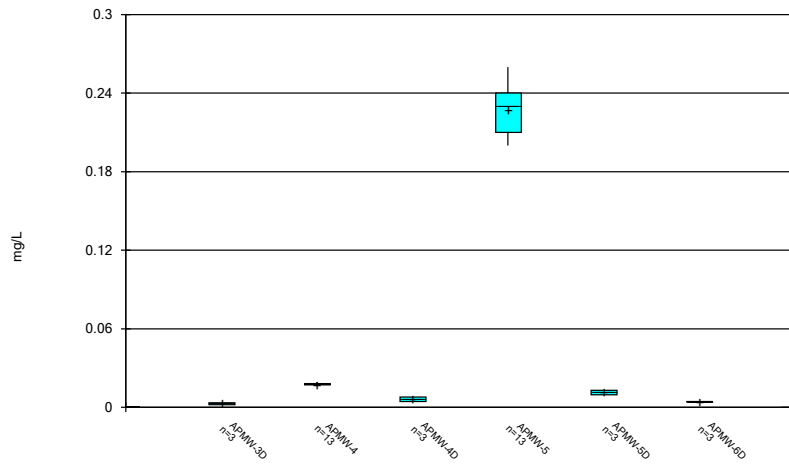
Constituent: Arsenic Analysis Run 5/3/2021 2:29 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



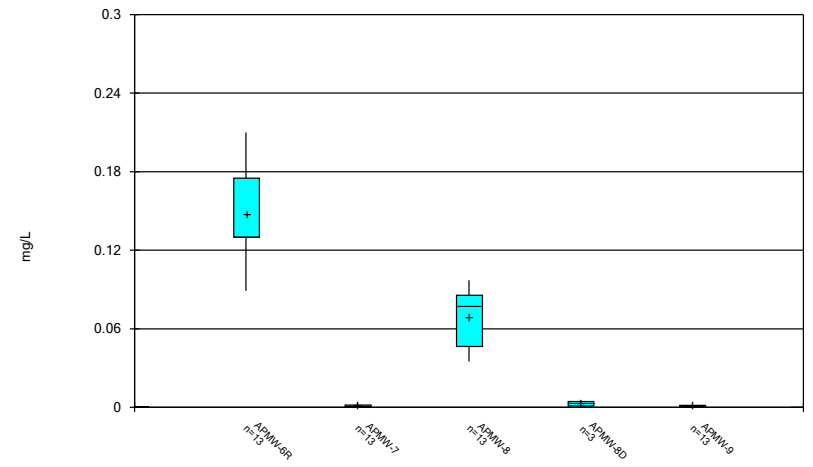
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



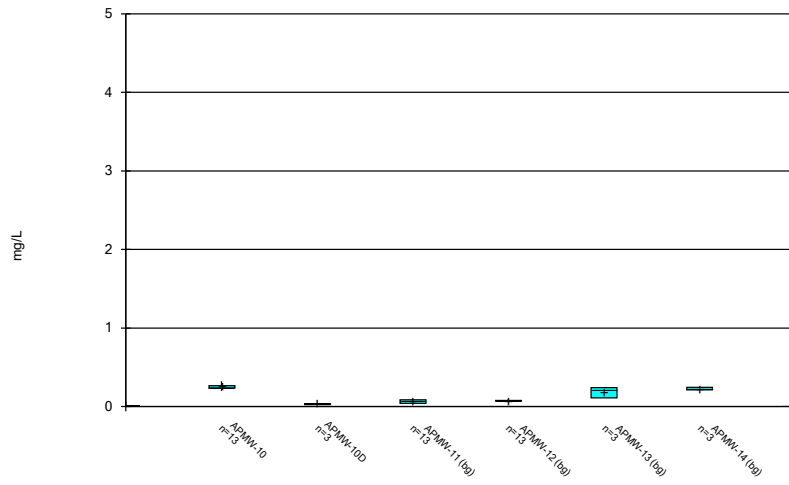
Constituent: Arsenic Analysis Run 5/3/2021 2:29 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



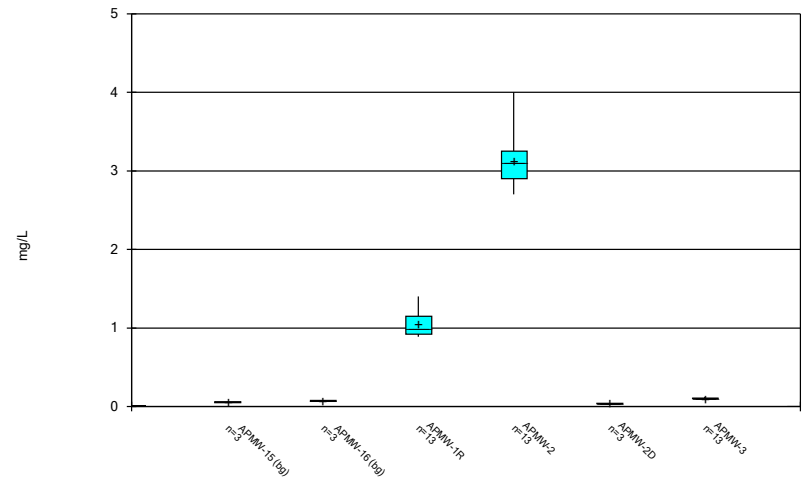
Constituent: Arsenic Analysis Run 5/3/2021 2:29 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



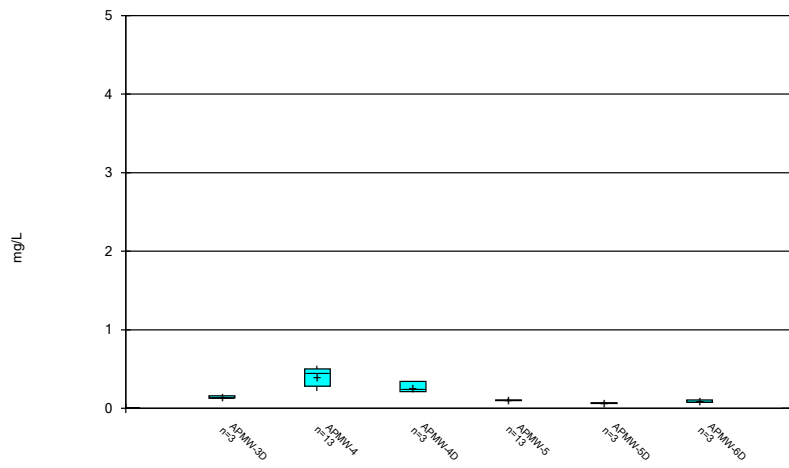
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



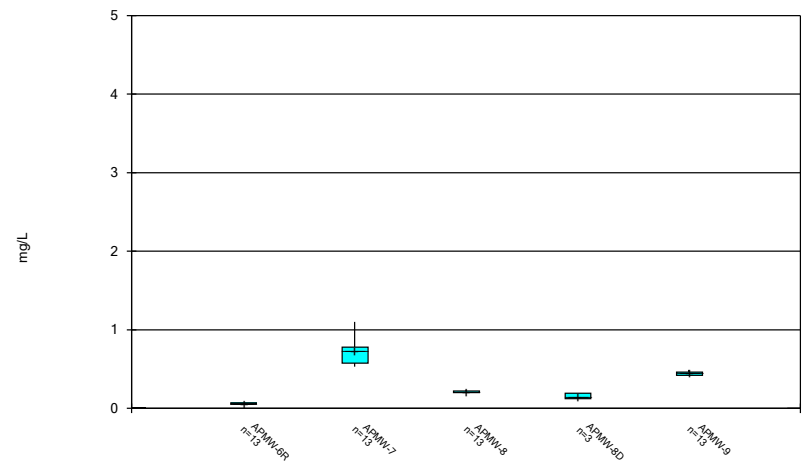
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



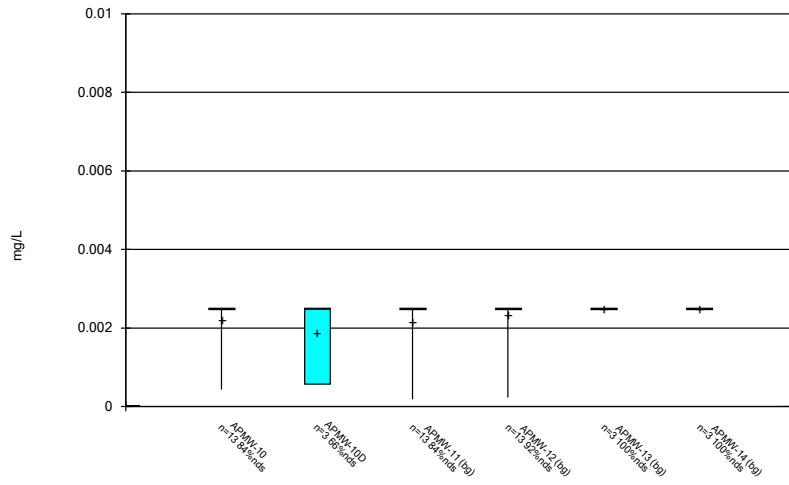
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



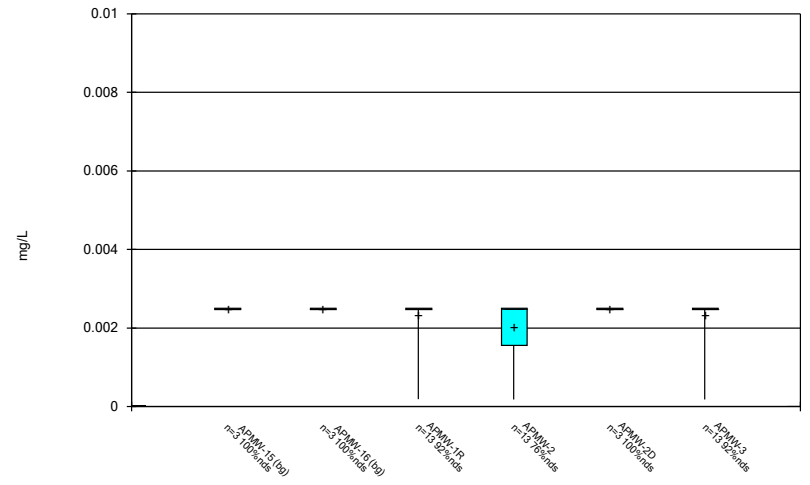
Constituent: Barium Analysis Run 5/3/2021 2:29 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



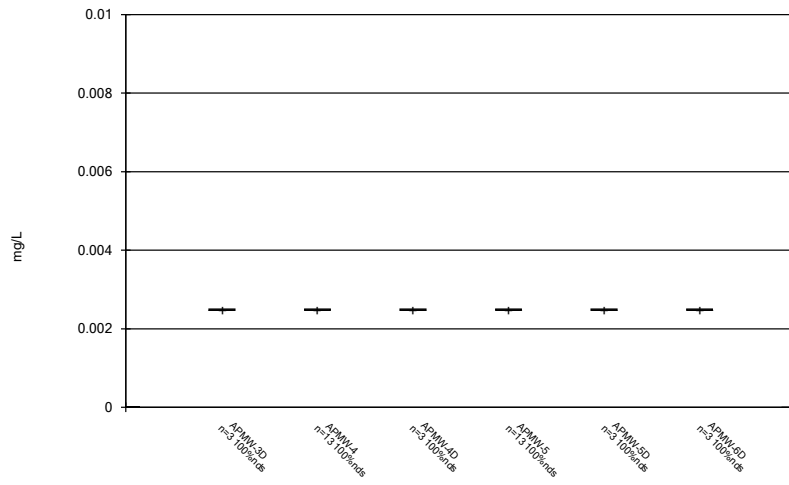
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



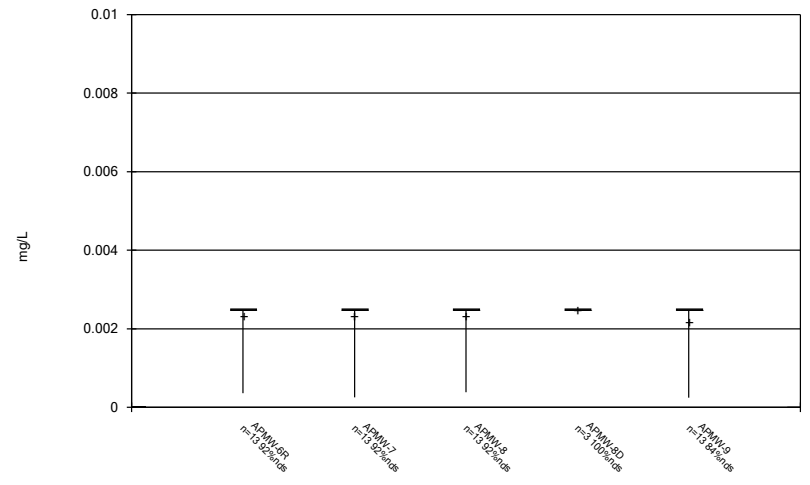
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



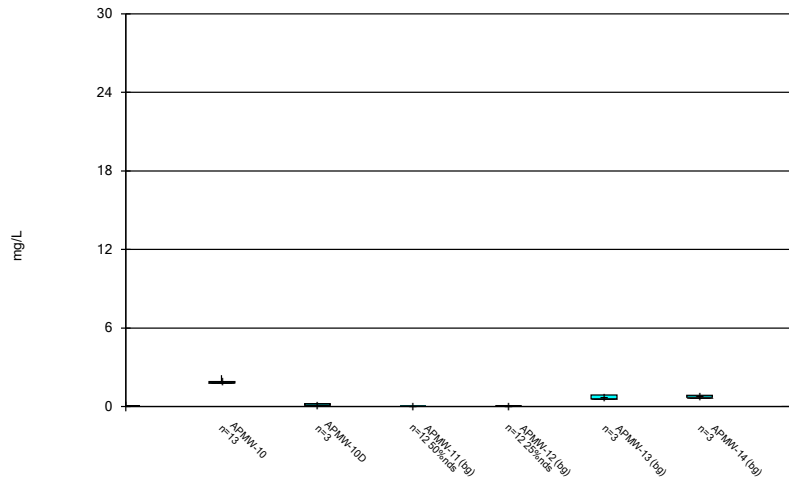
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



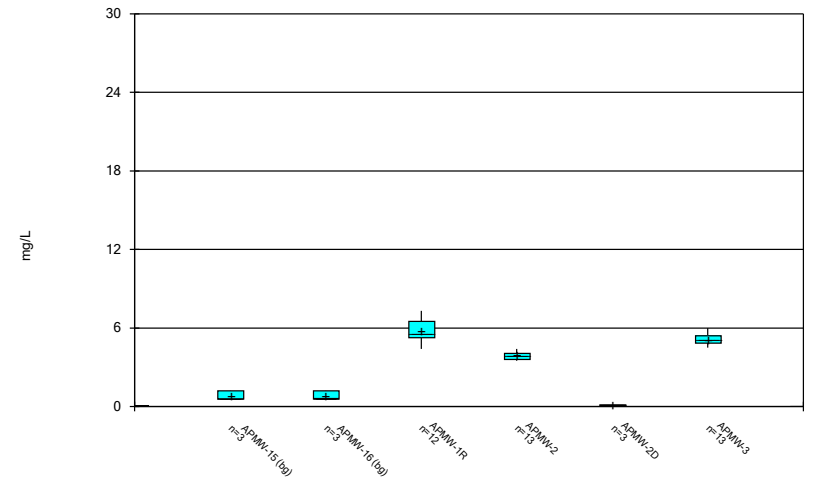
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



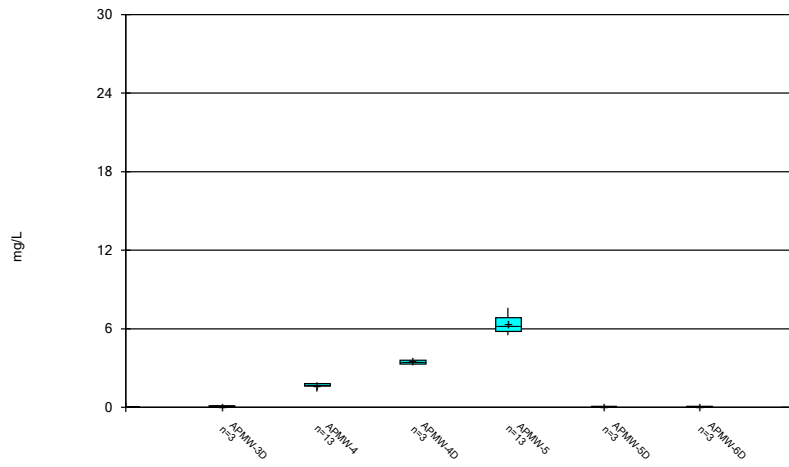
Constituent: Boron Analysis Run 5/3/2021 2:29 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



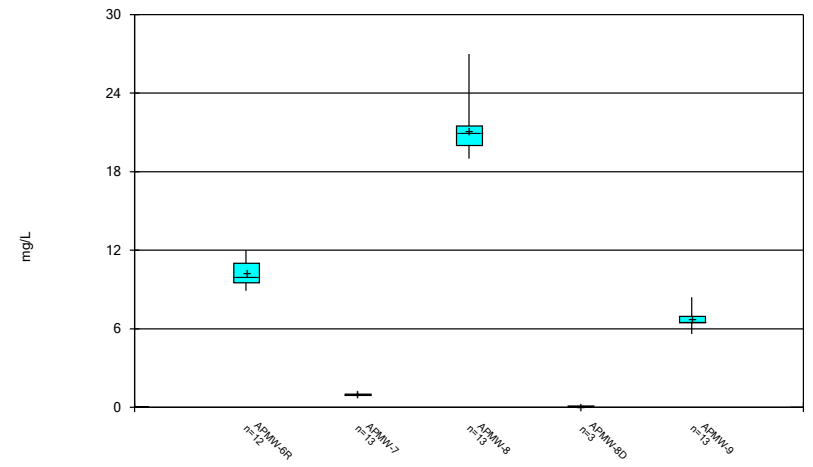
Constituent: Boron Analysis Run 5/3/2021 2:29 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



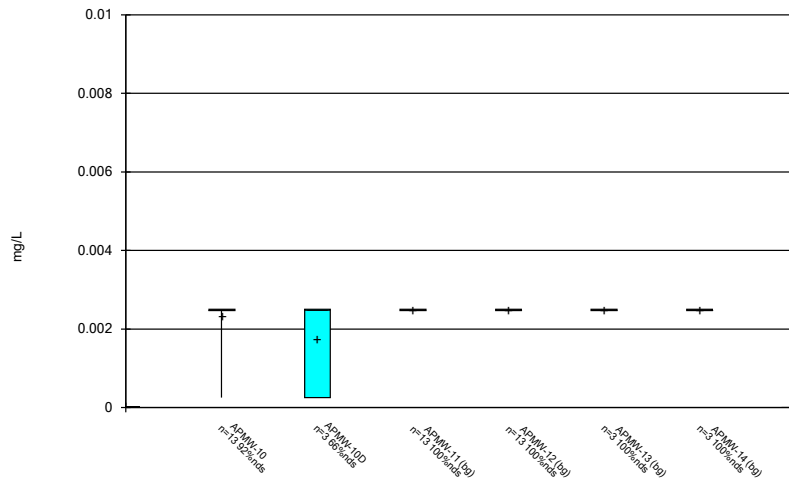
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



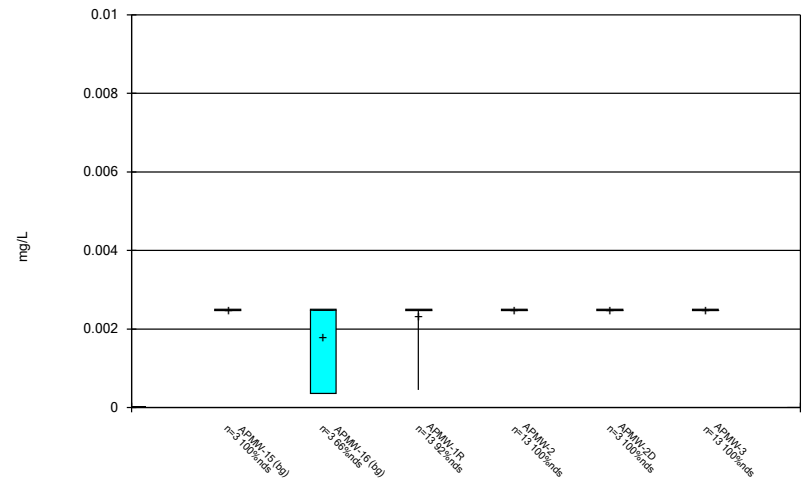
Constituent: Boron Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



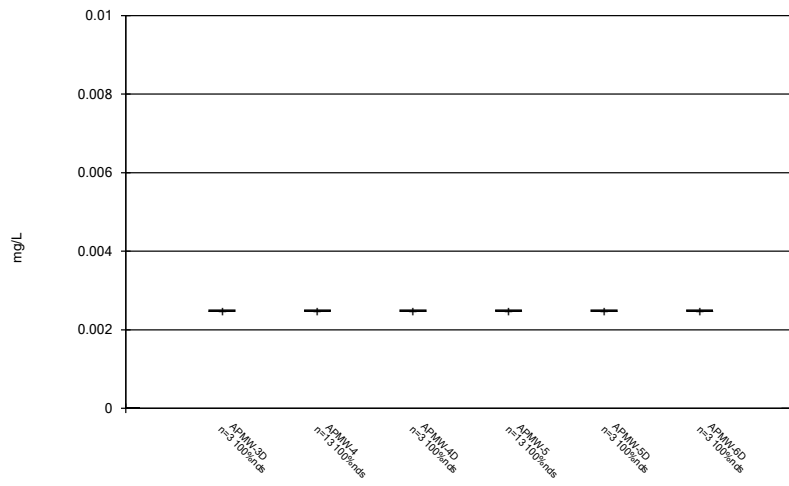
Constituent: Cadmium Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



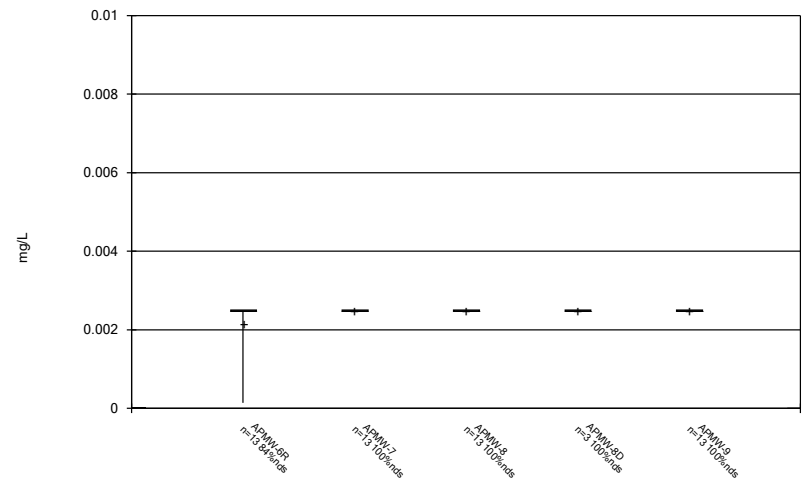
Constituent: Cadmium Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



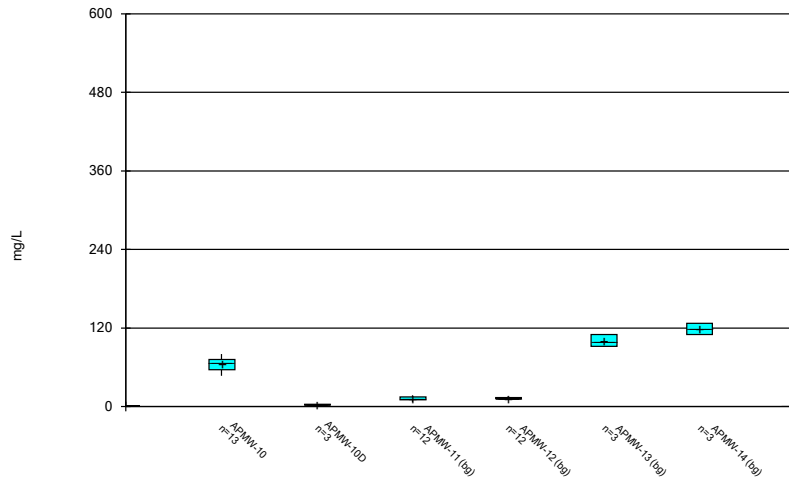
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



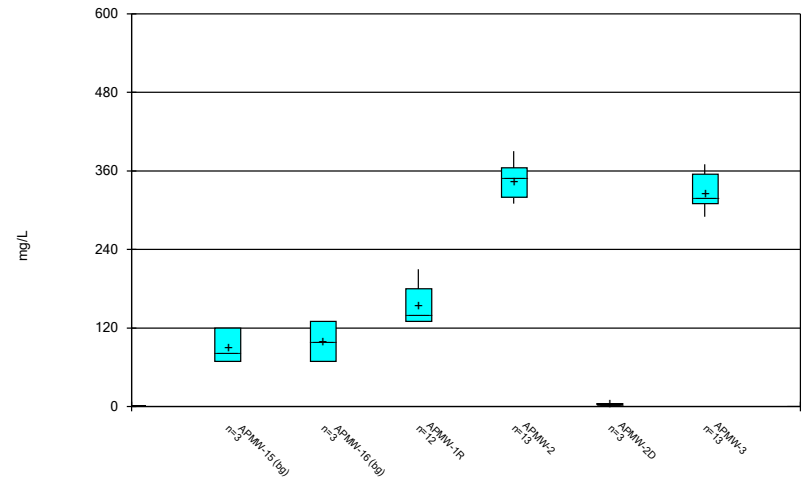
Constituent: Cadmium Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



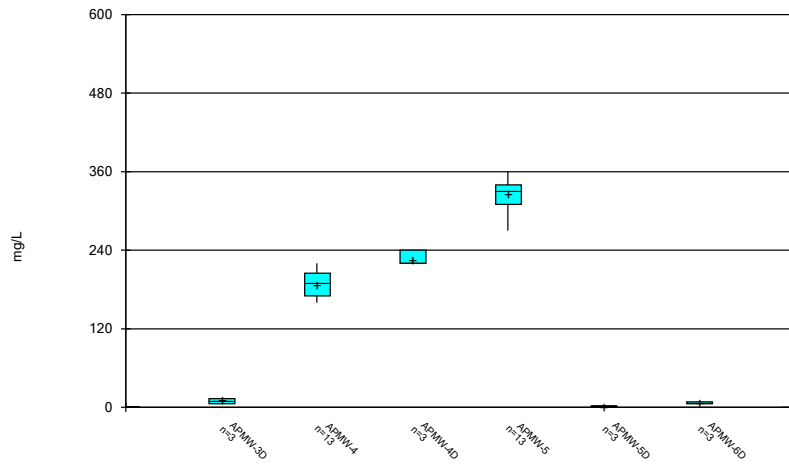
Constituent: Calcium Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



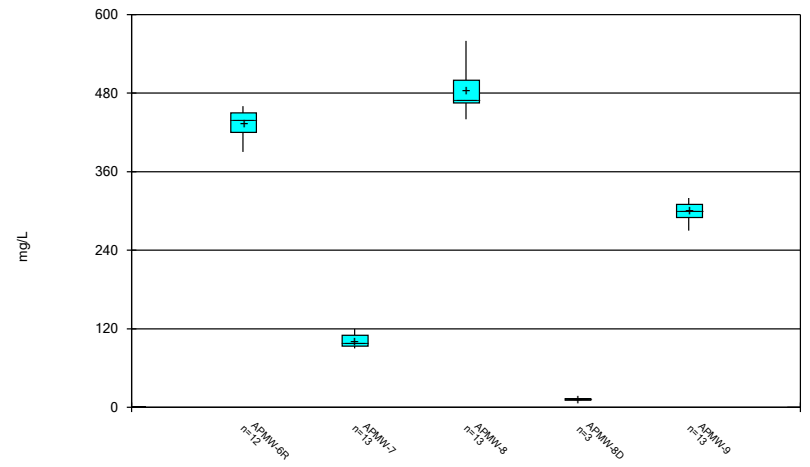
Constituent: Calcium Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



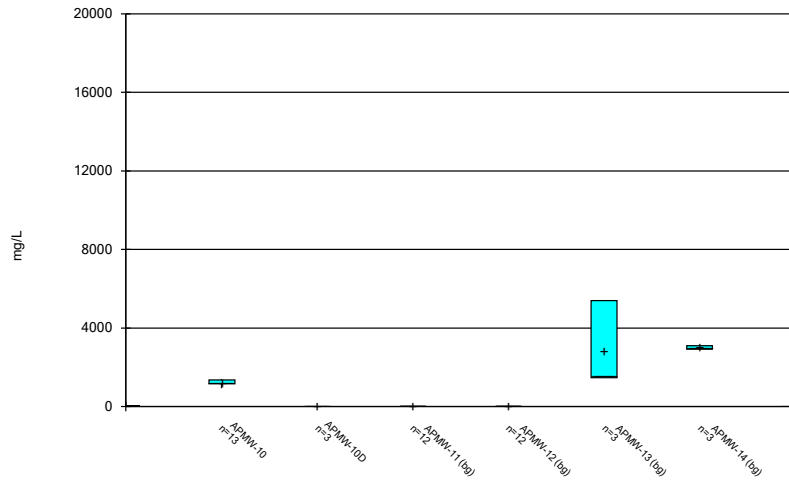
Constituent: Calcium Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



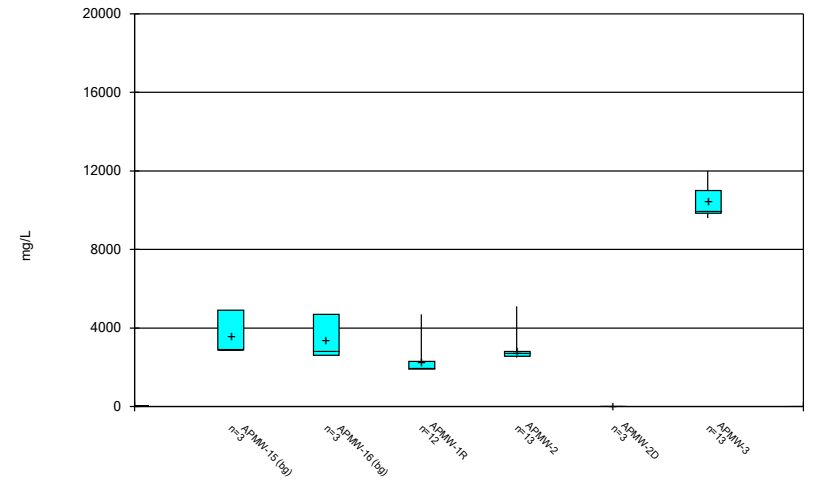
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



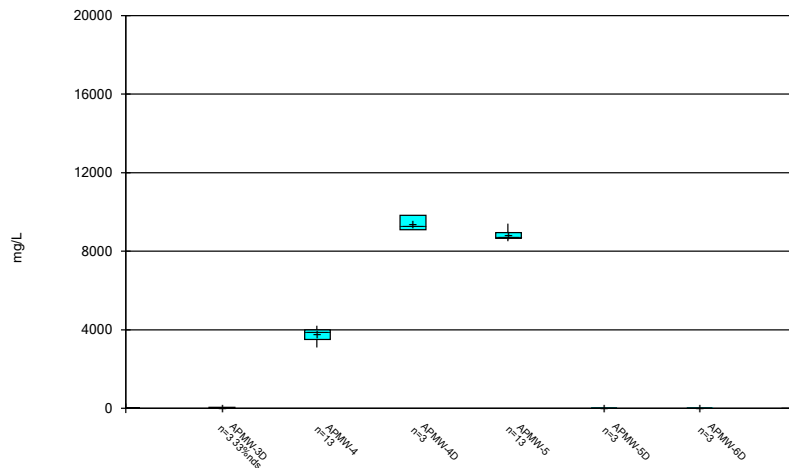
Constituent: Chloride Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



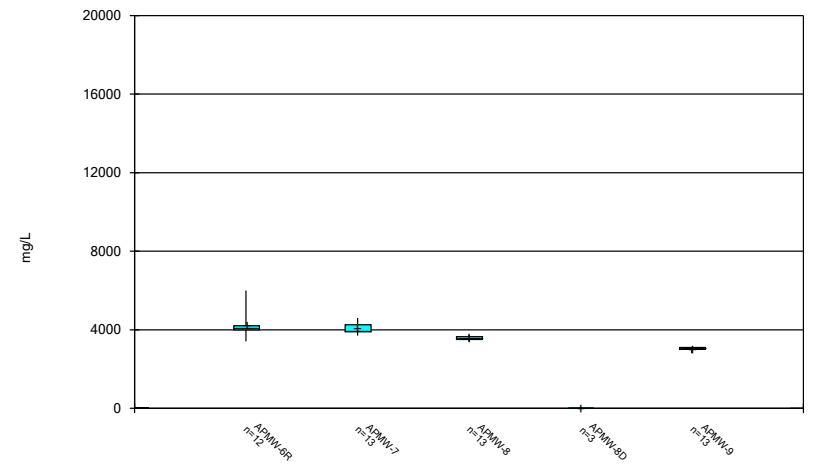
Constituent: Chloride Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



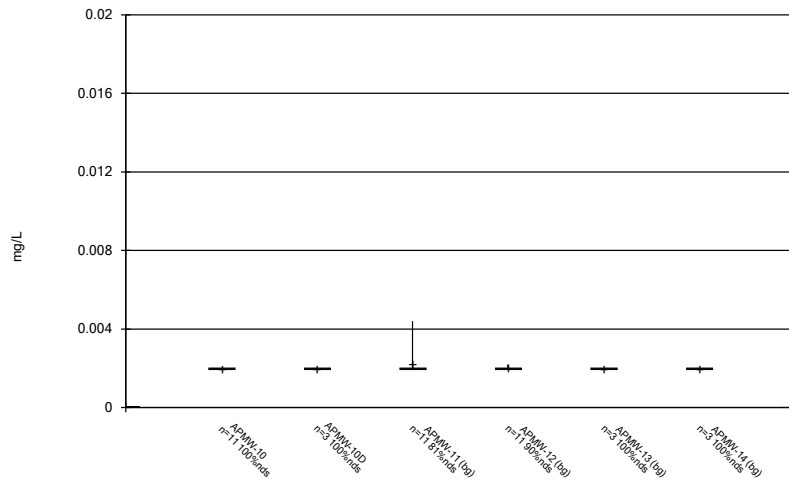
Constituent: Chloride Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



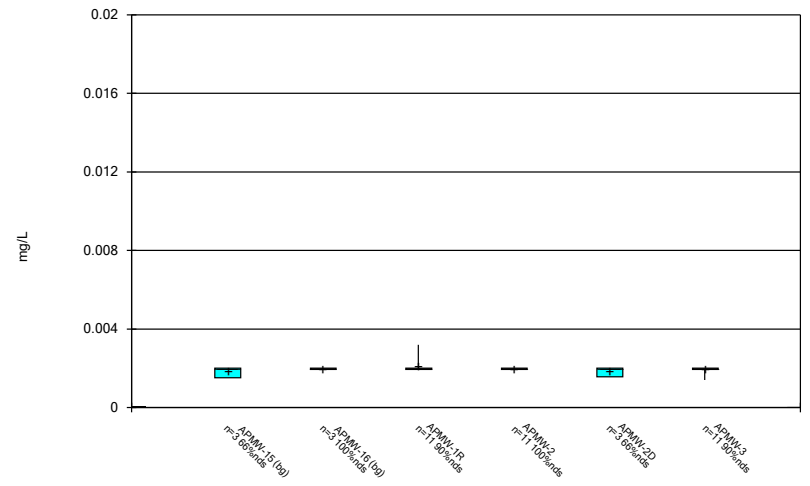
Constituent: Chloride Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



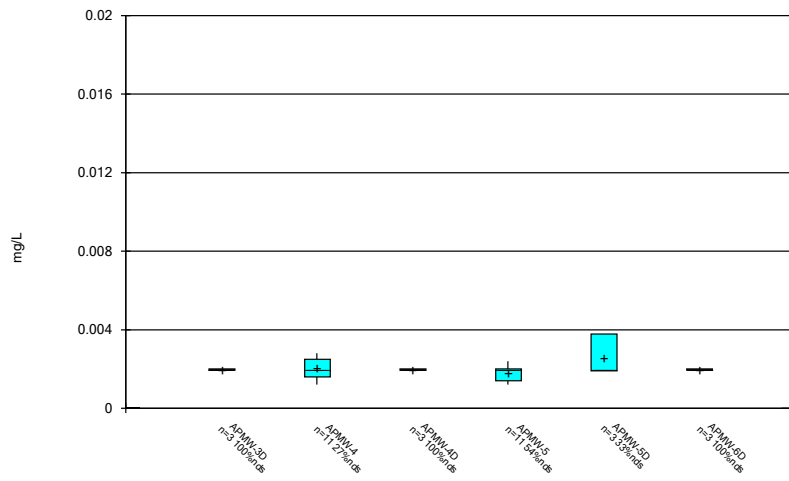
Constituent: Chromium Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



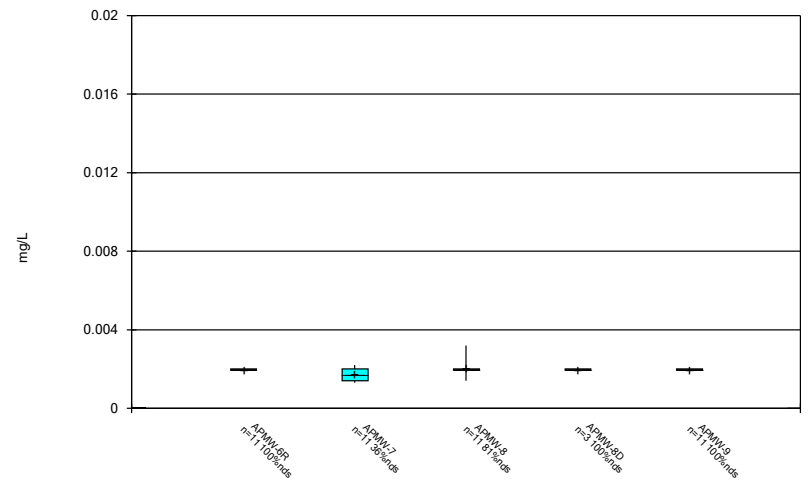
Constituent: Chromium Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



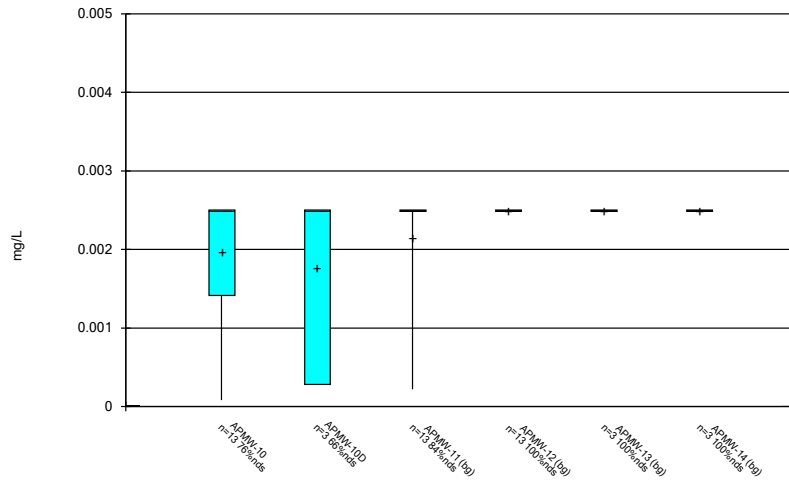
Constituent: Chromium Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



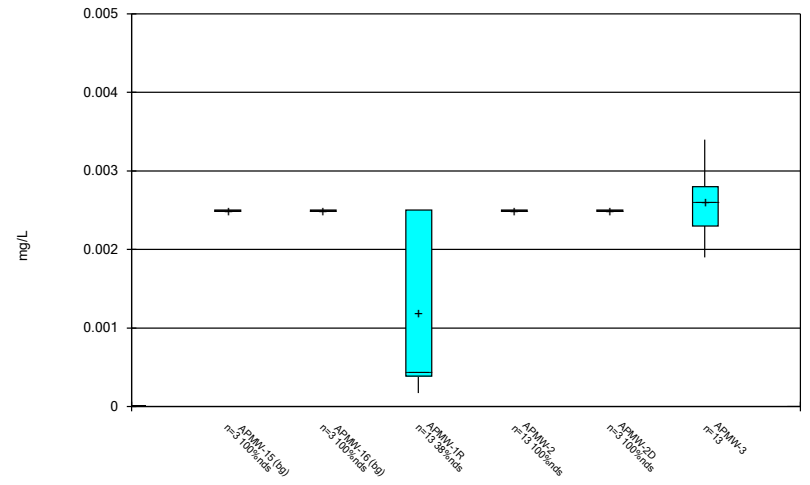
Constituent: Chromium Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



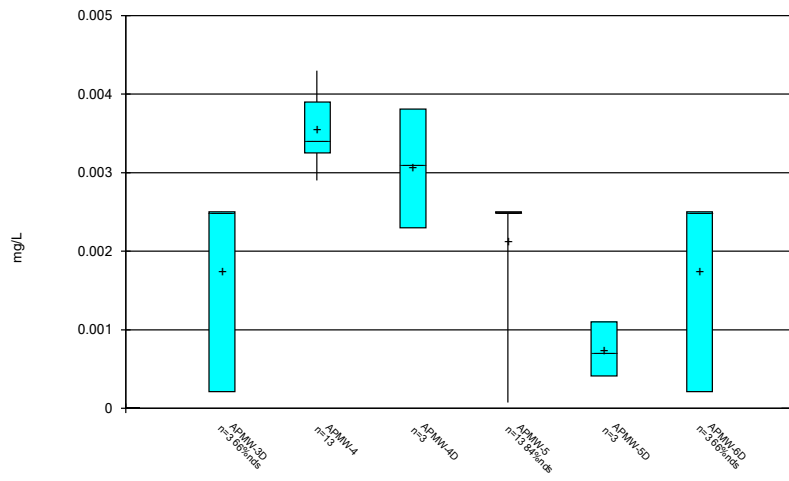
Constituent: Cobalt Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



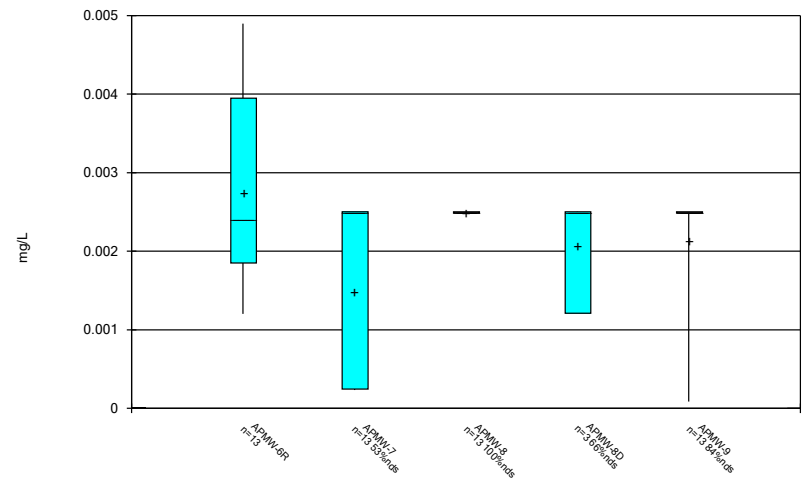
Constituent: Cobalt Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



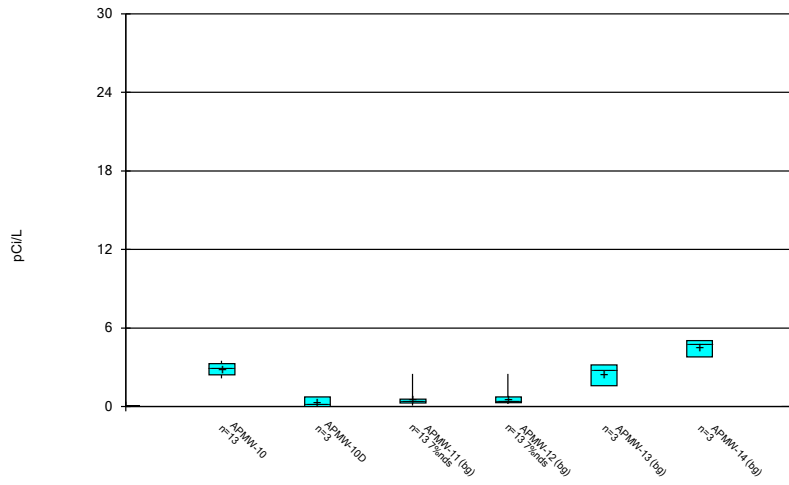
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



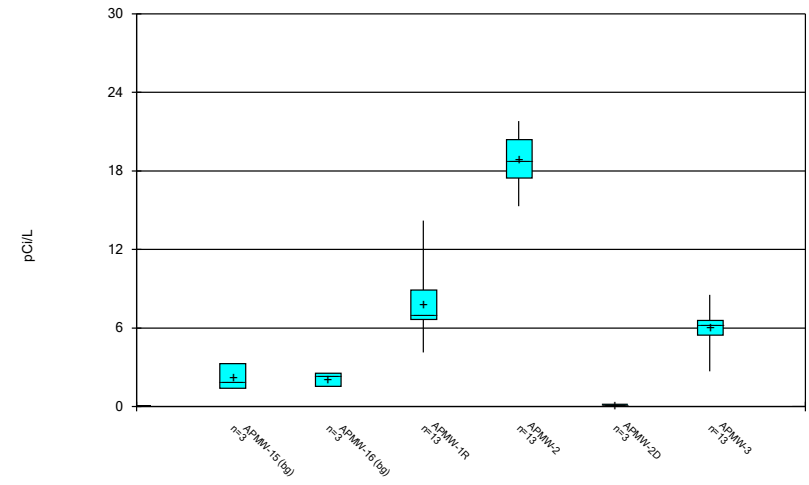
Constituent: Cobalt Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



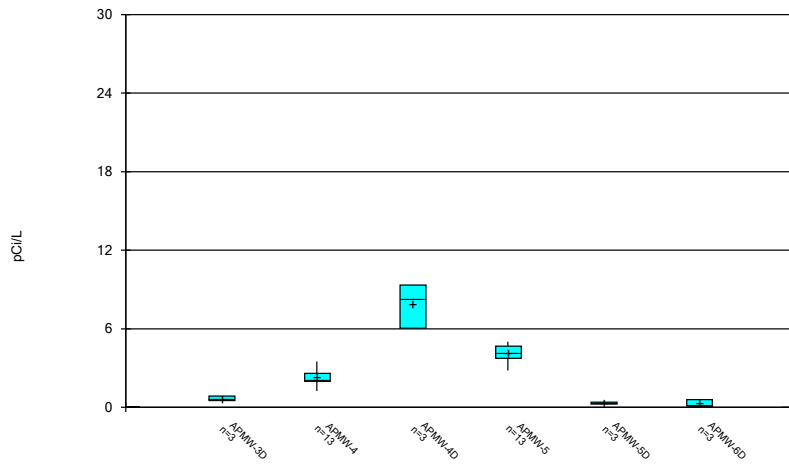
Constituent: Combined Radium 226 + 228 Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



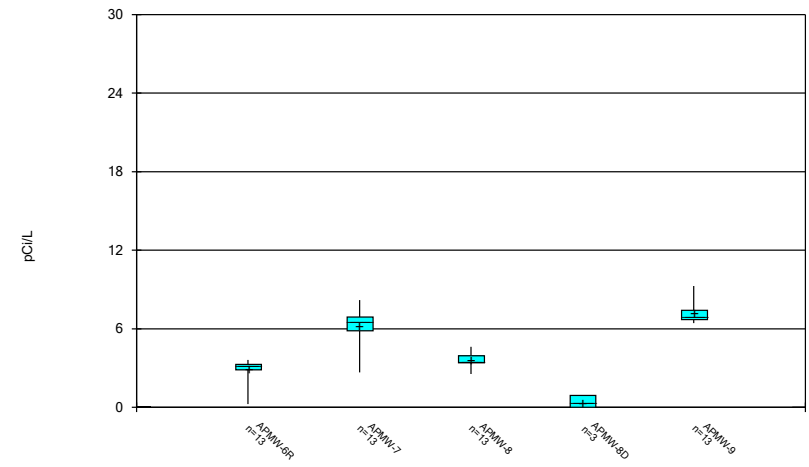
Constituent: Combined Radium 226 + 228 Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



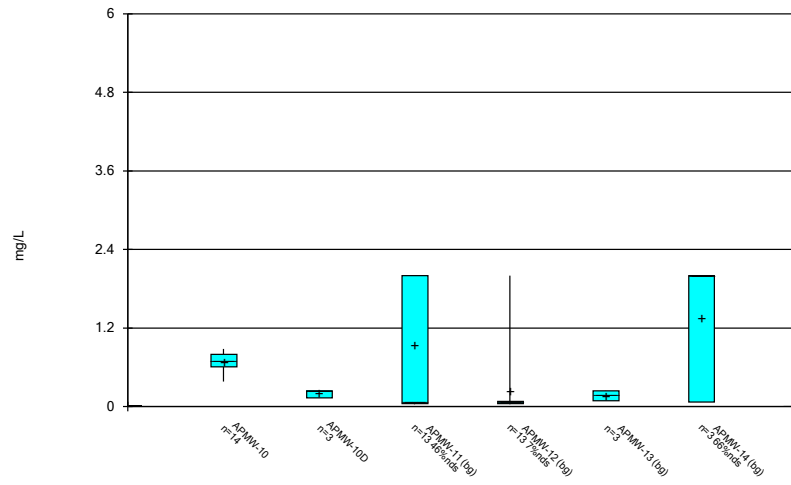
Constituent: Combined Radium 226 + 228 Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



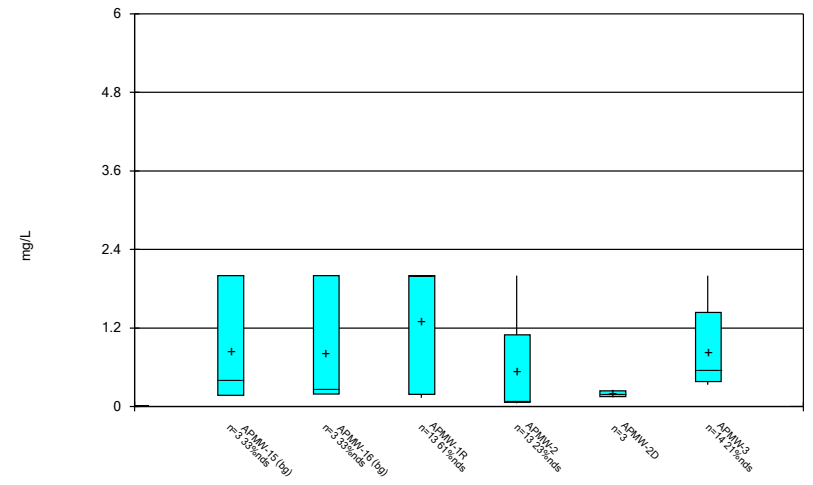
Constituent: Combined Radium 226 + 228 Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



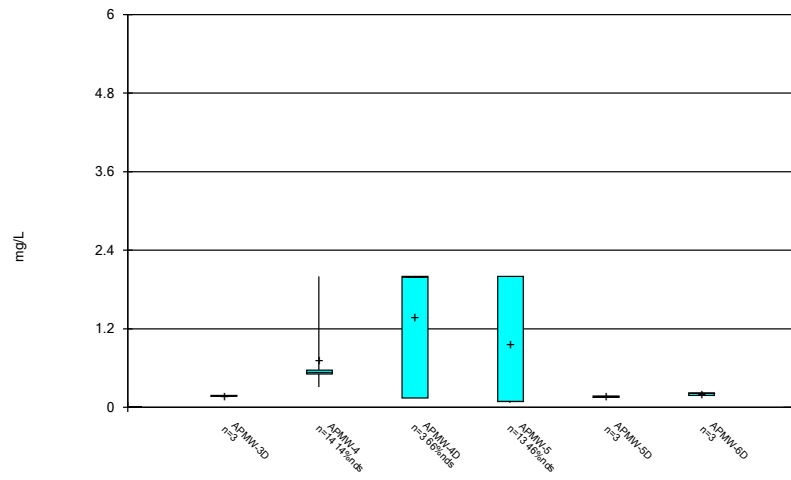
Constituent: Fluoride Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



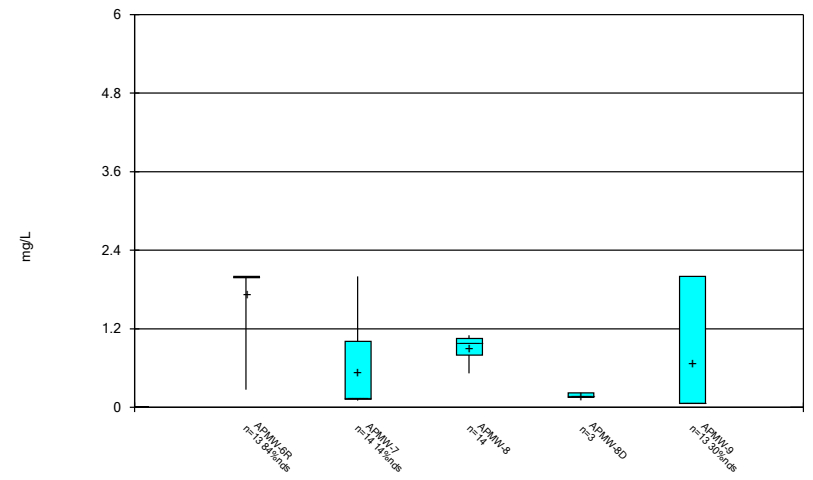
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



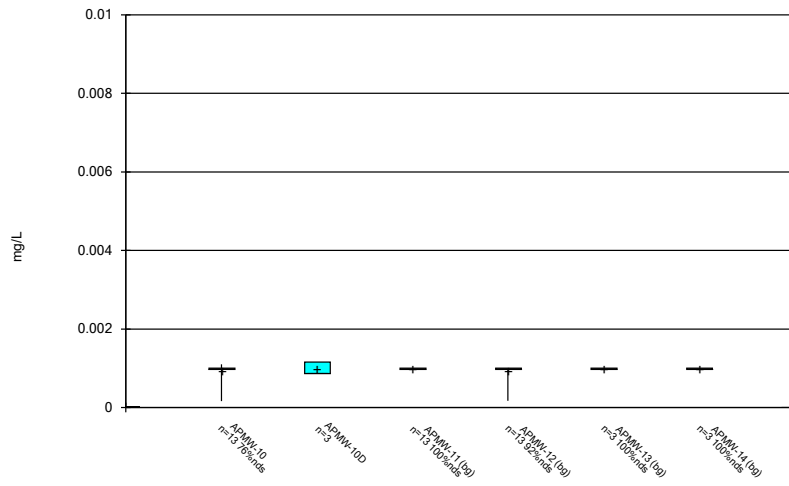
Constituent: Fluoride Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



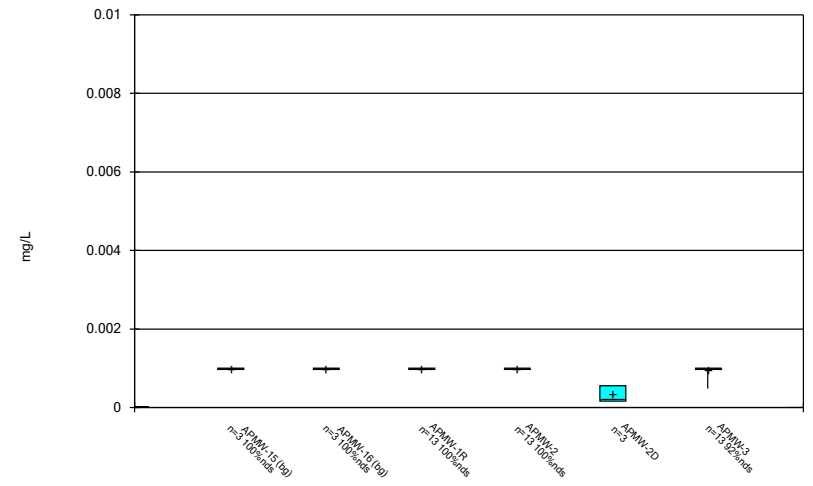
Constituent: Fluoride Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



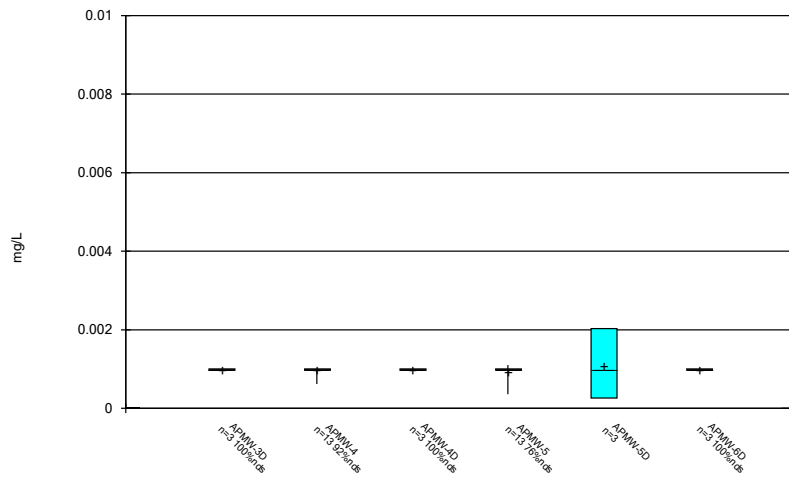
Constituent: Lead Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



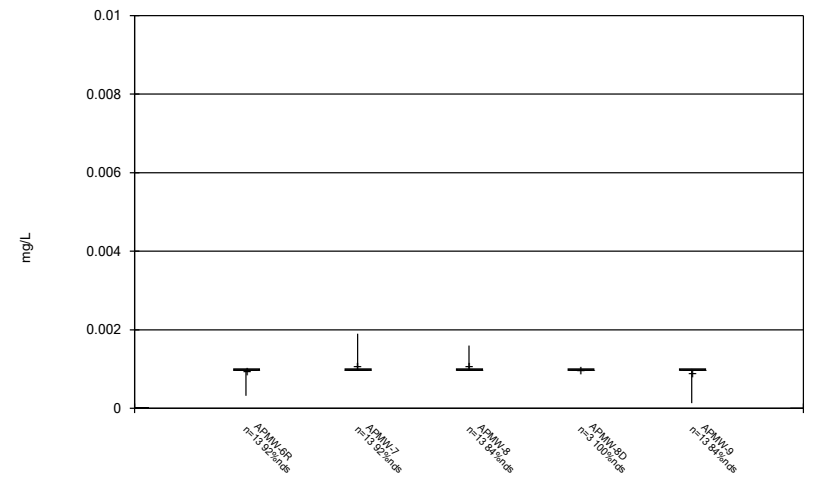
Constituent: Lead Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



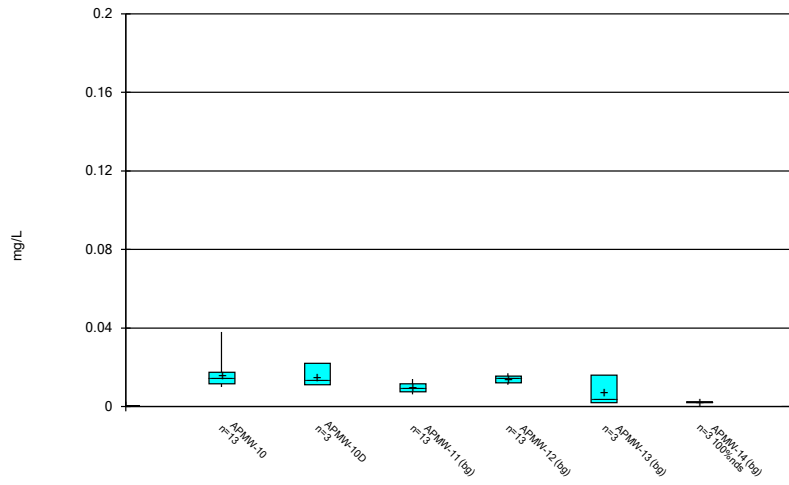
Constituent: Lead Analysis Run 5/3/2021 2:30 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



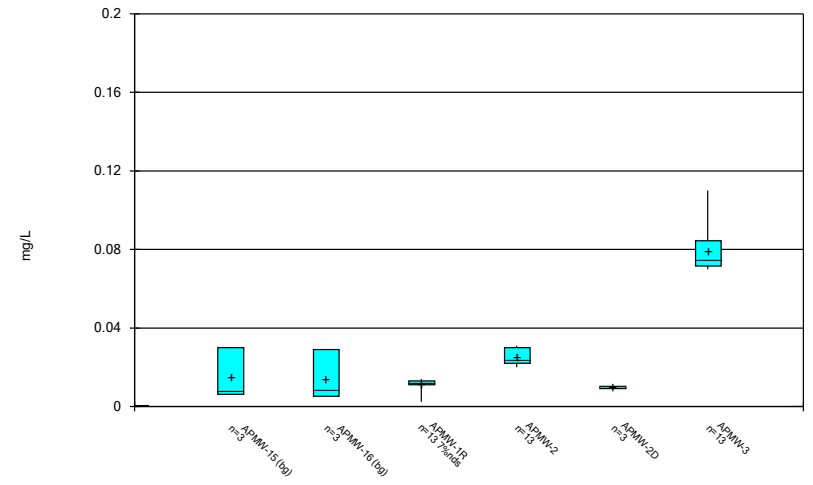
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Box & Whiskers Plot



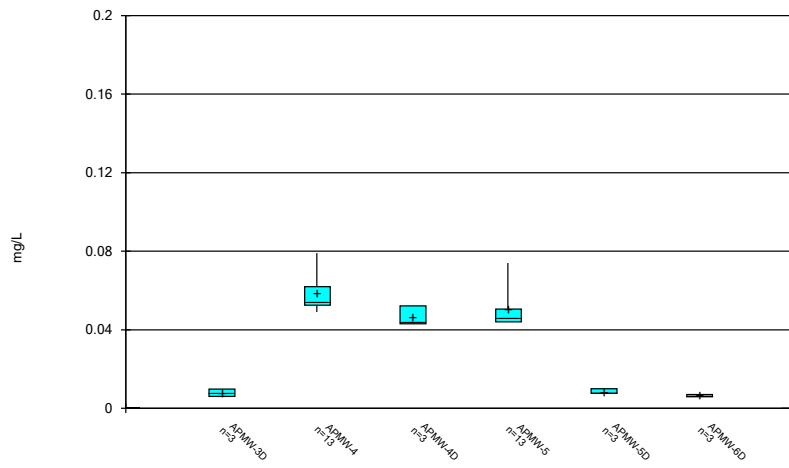
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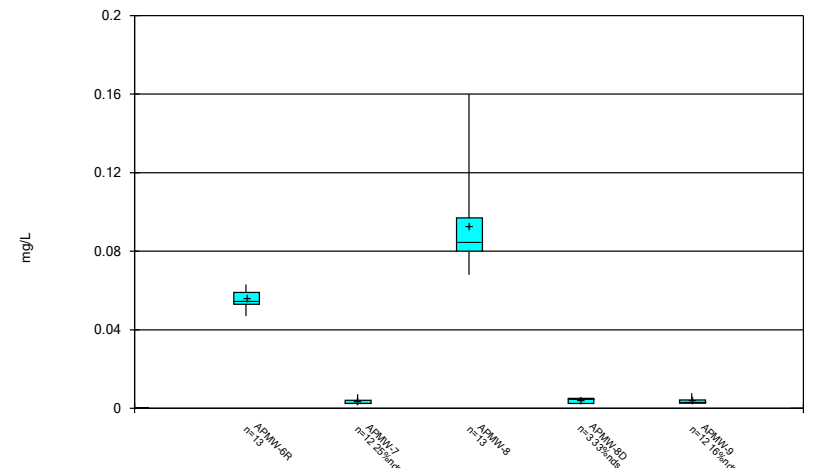
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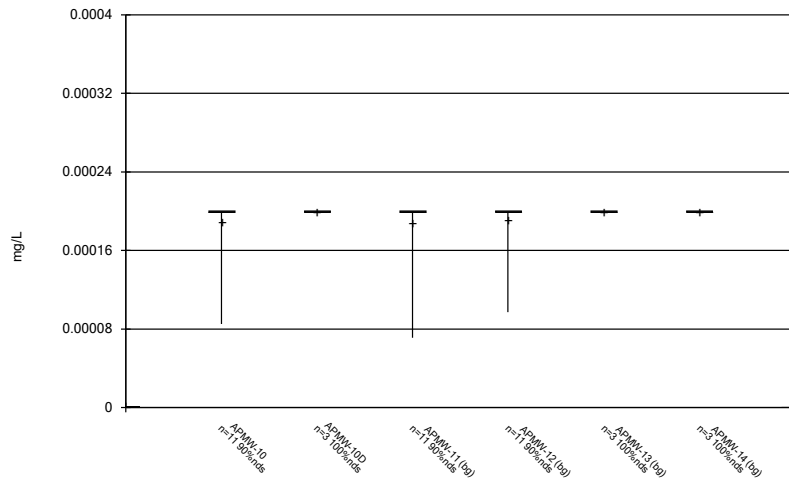
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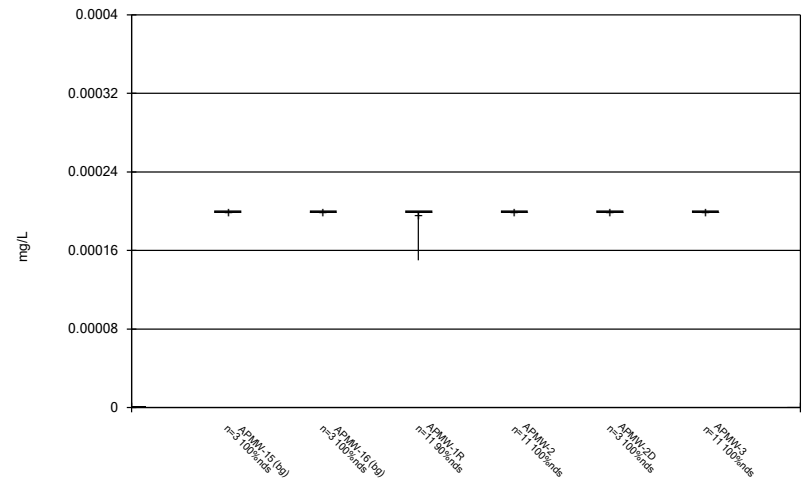
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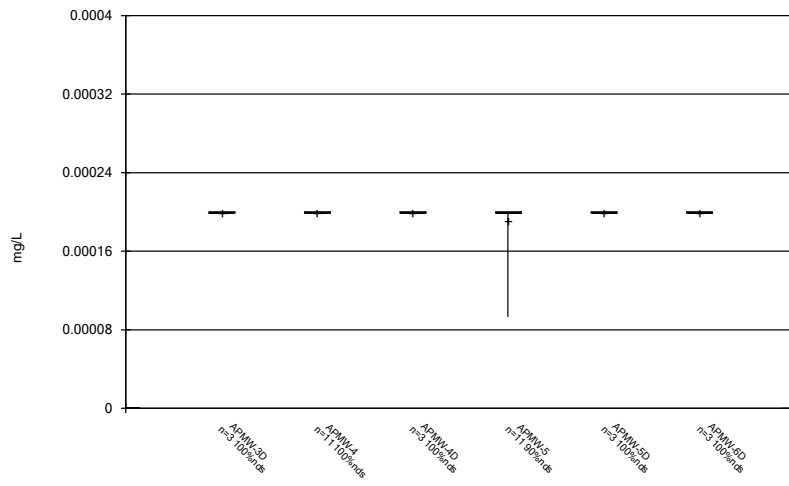
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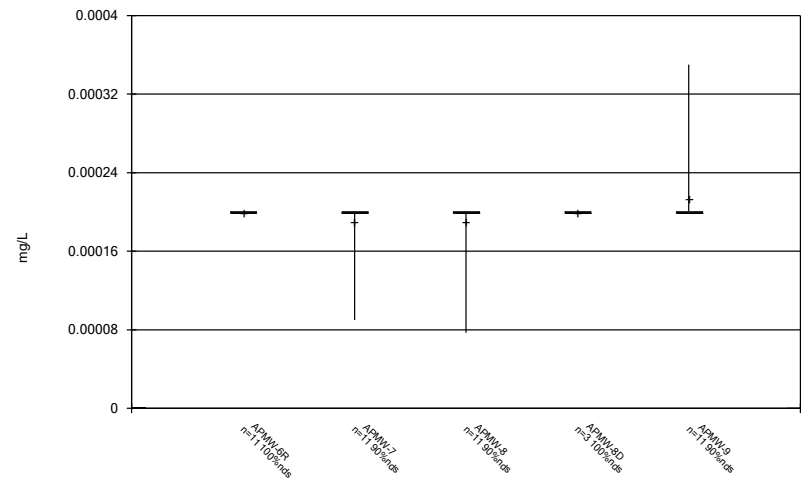
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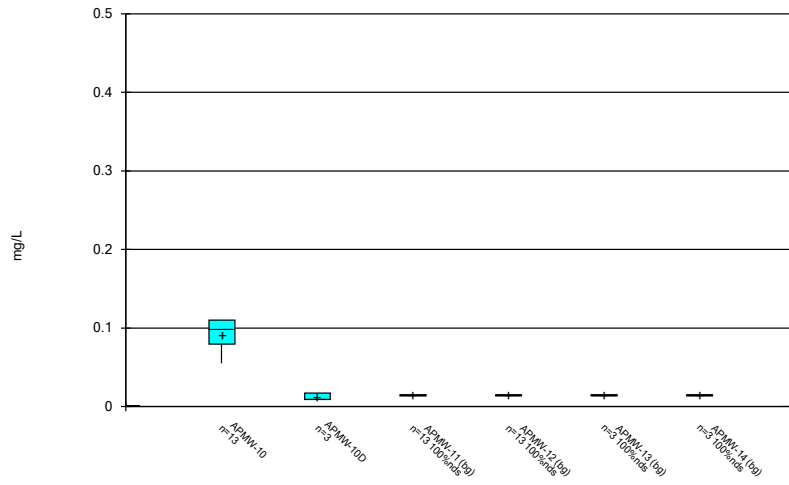
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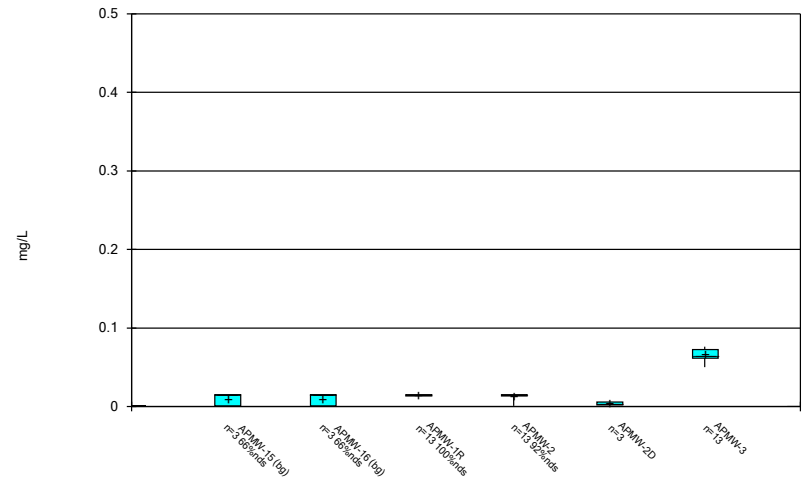
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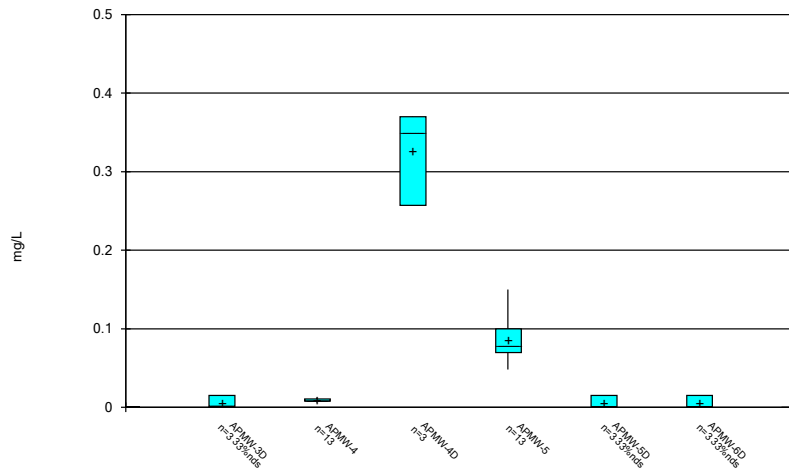
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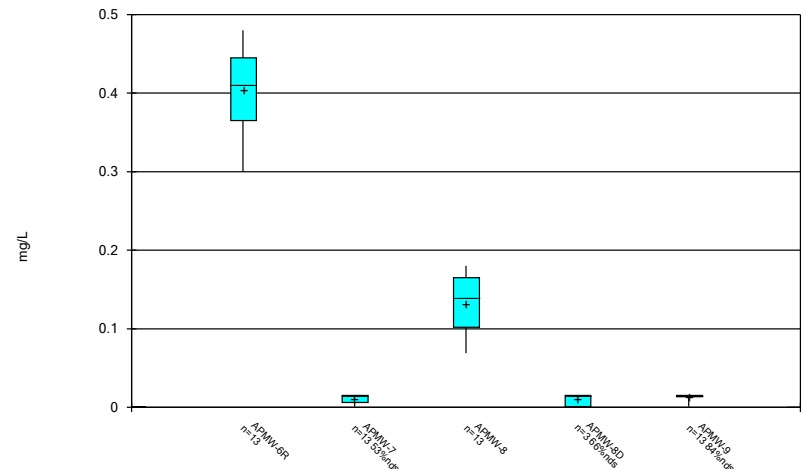
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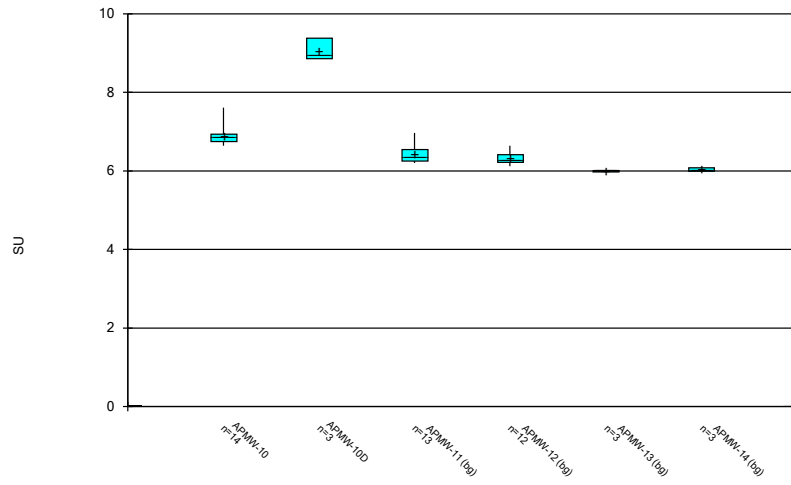
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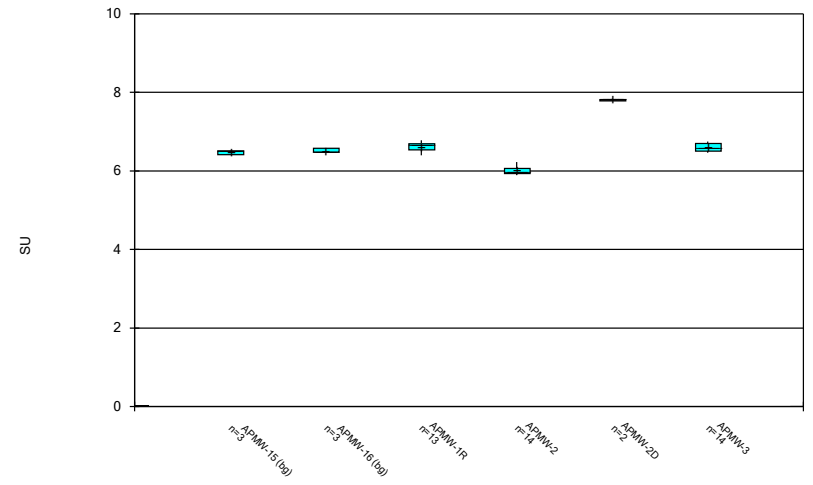
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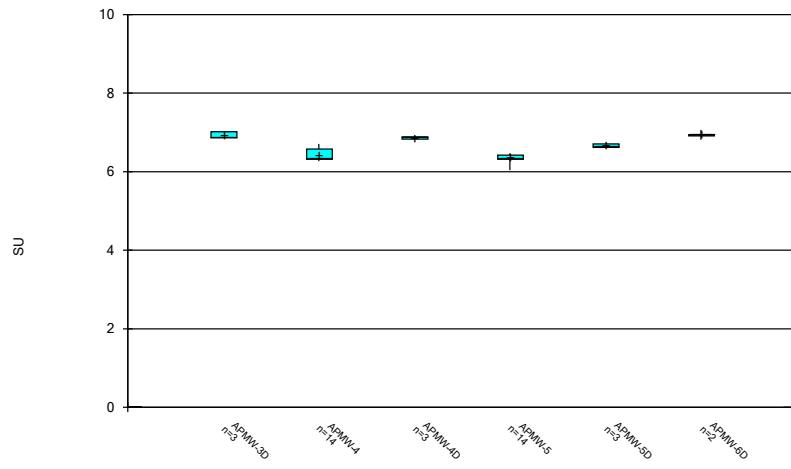
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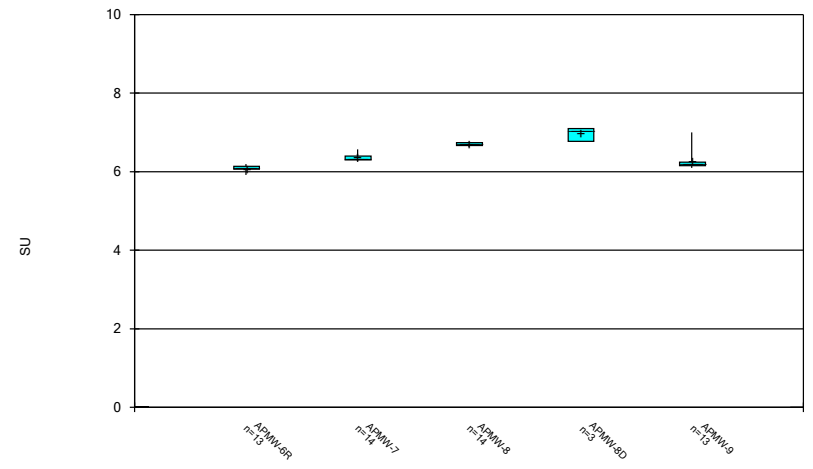
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Box & Whiskers Plot



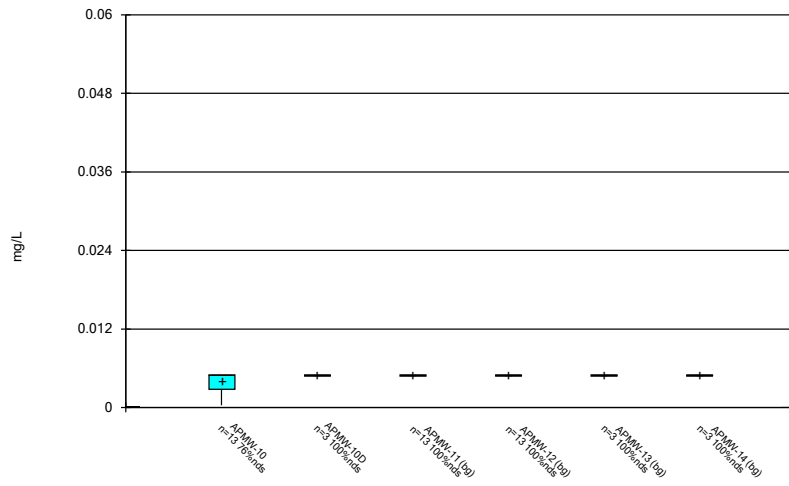
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Box & Whiskers Plot



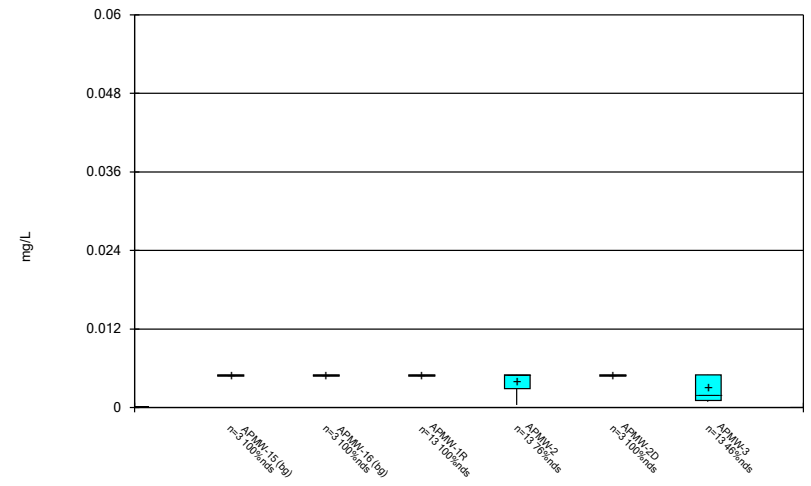
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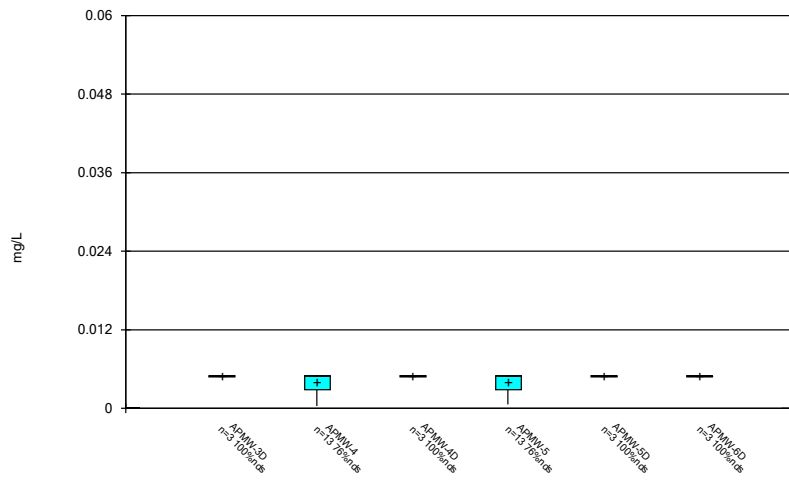
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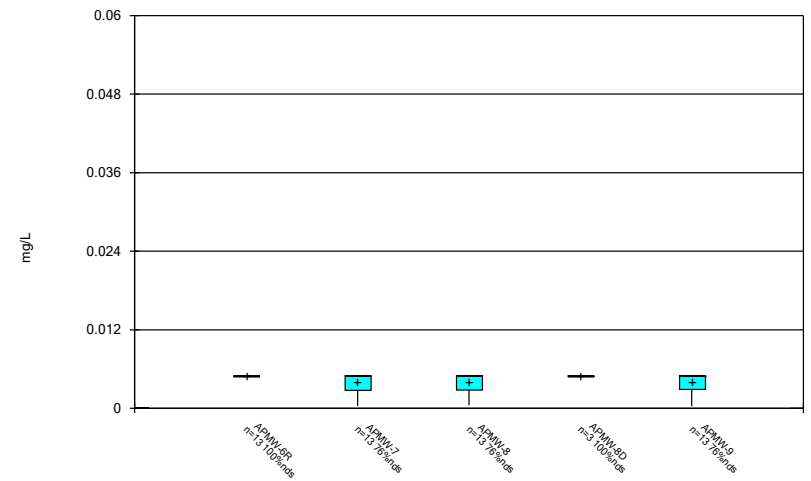
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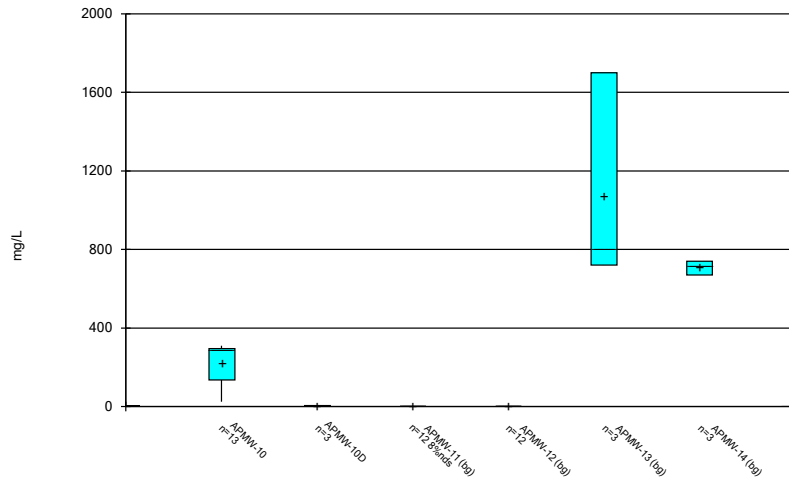
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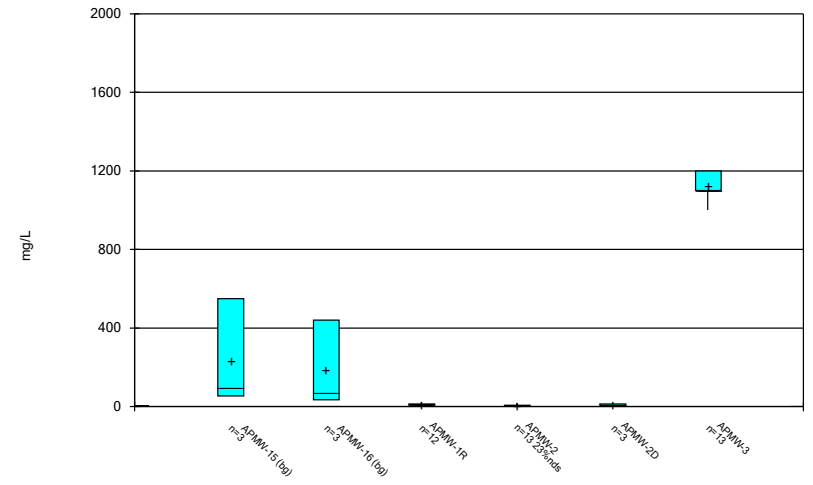
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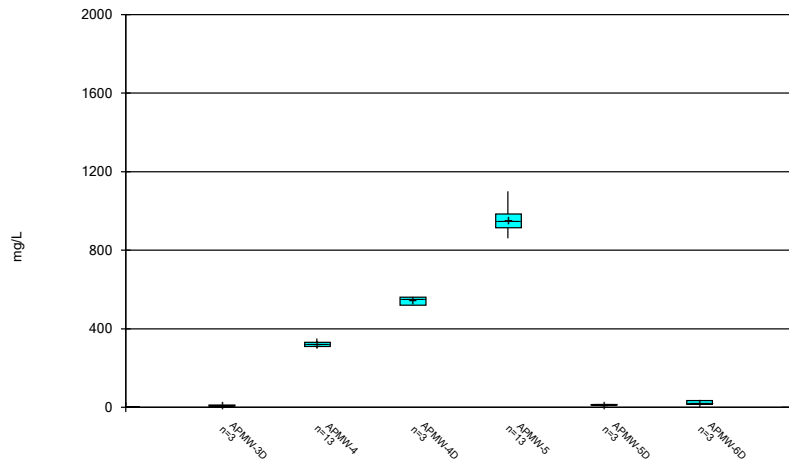
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Box & Whiskers Plot



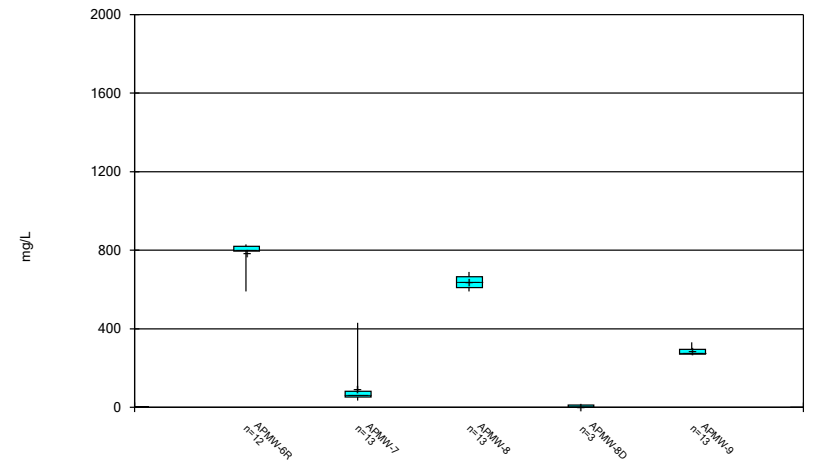
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Box & Whiskers Plot



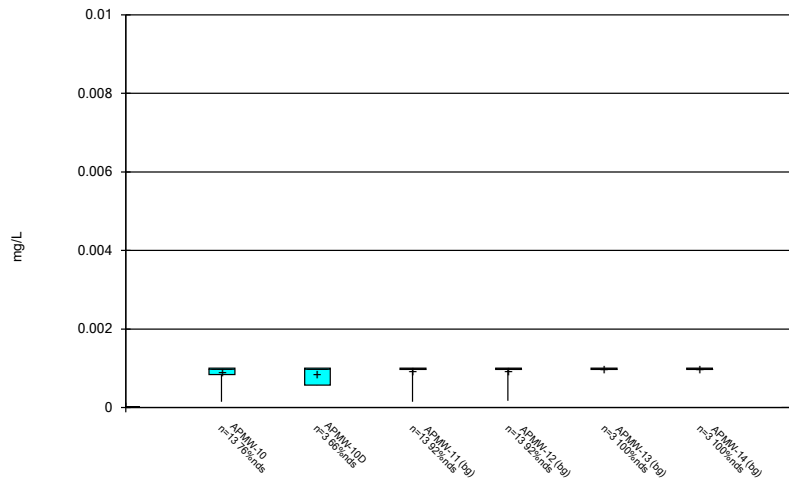
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Box & Whiskers Plot



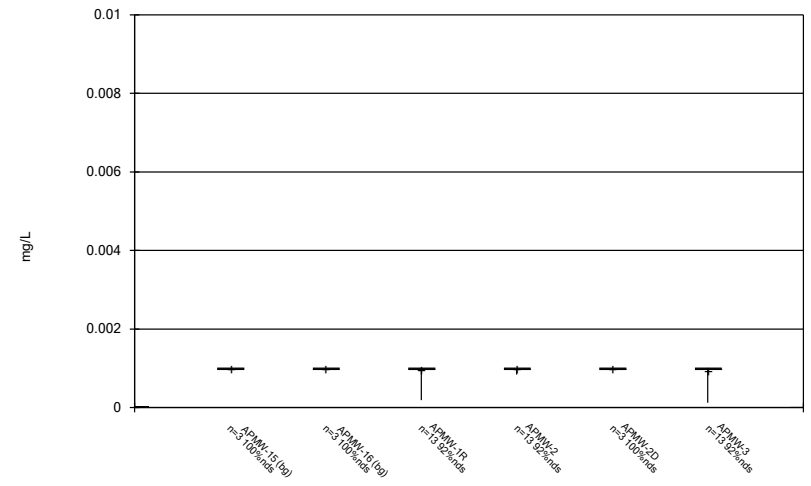
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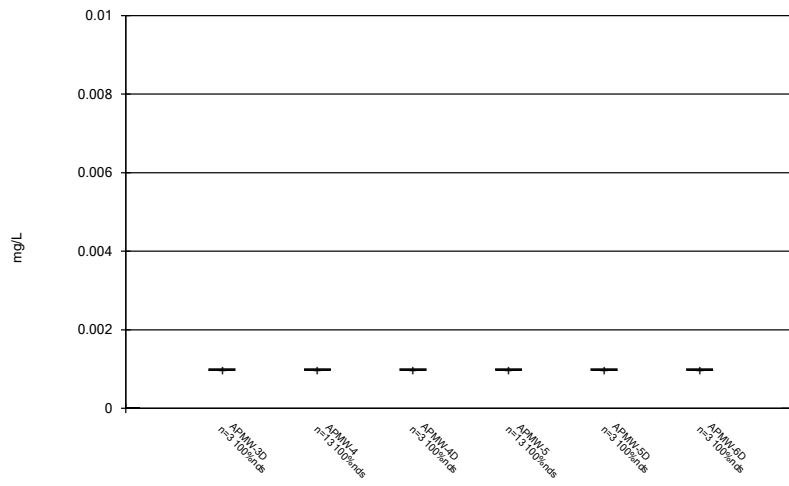
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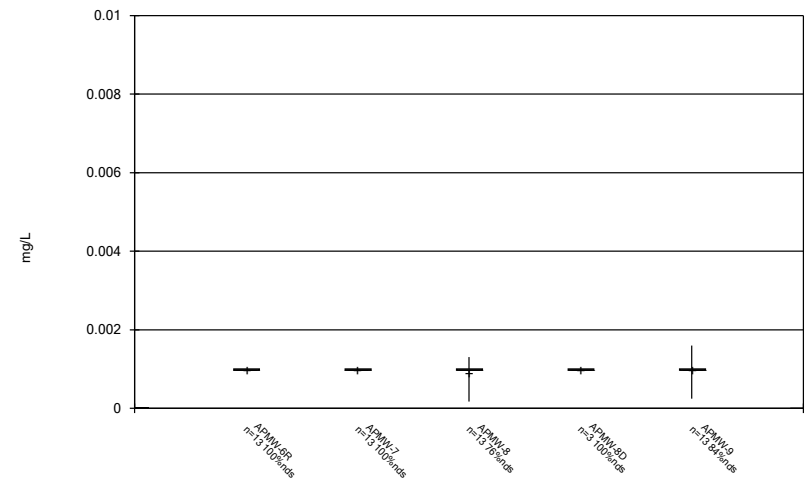
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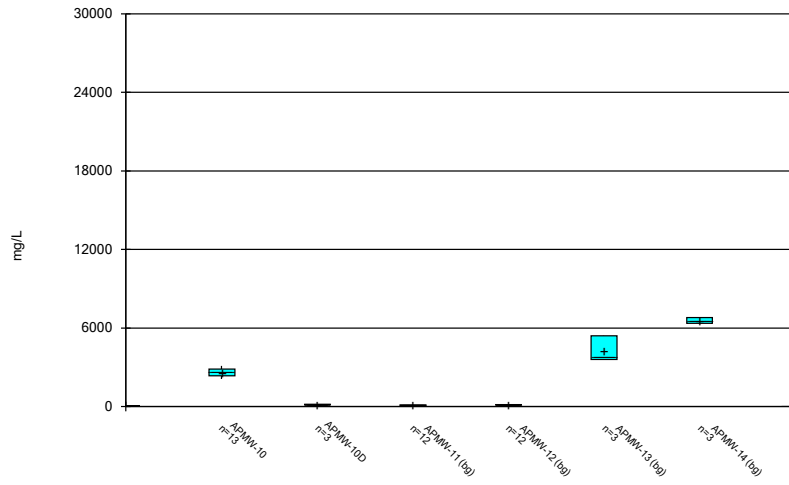
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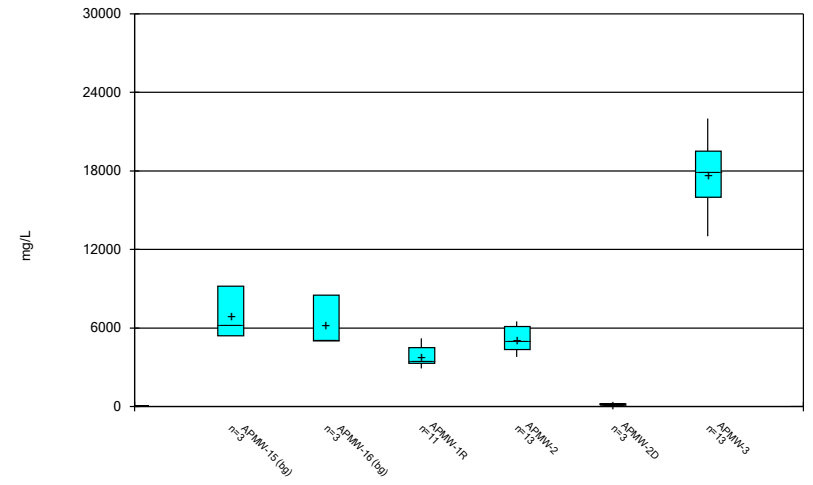
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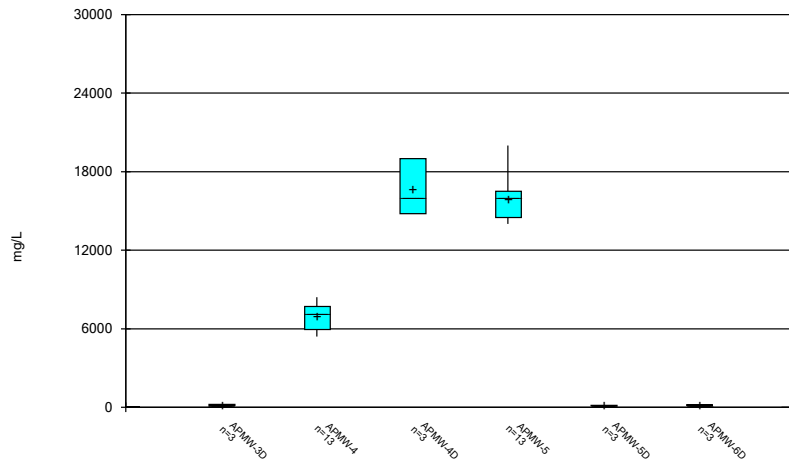
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Box & Whiskers Plot



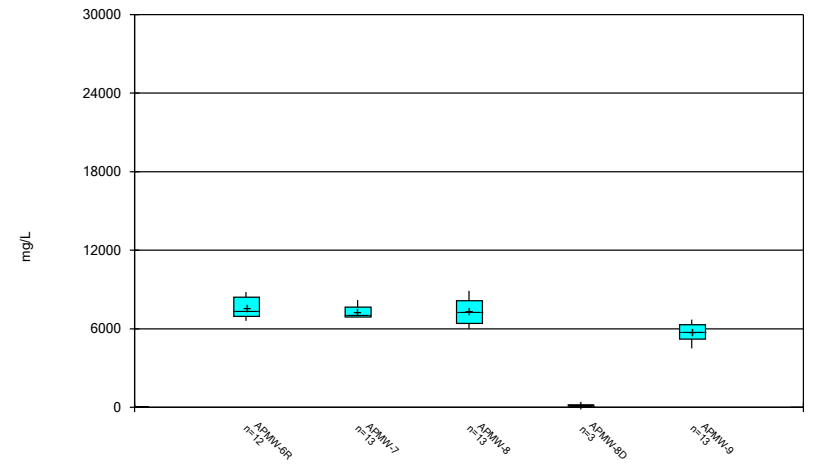
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Box & Whiskers Plot



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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/3/2021 2:30 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Appendix C



Prepared for

Balch & Bingham, LLP
1310 Twenty Fifth Ave.
Gulfport, MS 39501

**BARIUM ALTERNATE SOURCE
DEMONSTRATION
PLANT WATSON FORMER CCR UNIT**

Prepared by



engineers | scientists | innovators

26148 Capital Drive, Suite E
Daphne, Alabama 36526

Project Number FR3795

August 2020

CERTIFICATION STATEMENT

This *Barium Alternate Source Demonstration, Mississippi Power Company – Plant Watson – Former CCR Unit* has been prepared in general accordance with the requirements of the United States Environmental Protection Agency coal combustion residuals rule (40 Code of Federal Regulations [CFR] Part 257.95(g)(3)(ii)) under the supervision of a State of Mississippi licensed Professional Engineer with Geosyntec Consultants, Inc.

8/11/2020

Benjamin K. Amos, Ph.D., P.E.
Mississippi Professional Engineer No. 27736

Date

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LIST OF ACRONYMS

ACM	Assessment of Corrective Measures
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
DPT	direct push technology
EPRI	Electric Power Research Institute
GWPS	Groundwater Protection Standard
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
PE	professional engineer
SSL	statistically significant level
TDS	total dissolved solids
UCL95	95% upper confidence limit
USEPA	United States Environmental Protection Agency
XRD	X-Ray Diffraction
XRF	X-Ray Fluorescence

1.0 INTRODUCTION

This document presents an alternate source demonstration (ASD) for barium at the former Coal Combustion Residuals (CCR) Unit at Mississippi Power Company (Mississippi Power) Plant Jack Watson Electric Generating Plant (Plant Watson). This ASD has been prepared to meet the requirements of the United States Environmental Protection Agency's (USEPA's) CCR Rule 40 CFR Part 257.95(g)(3)(ii) which states that the owner or operator may:

Demonstrate that a source other than the CCR unit caused the contamination, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. Any such demonstration must be supported by a report that includes the factual or evidentiary basis for any conclusions and must be certified to be accurate by a qualified professional engineer.

1.1 Background

Plant Watson is located in Harrison County, Mississippi near the City of Gulfport. The site is bordered by Interstate Highway 10 (I-10) to the north, Reichold Road and industrial land on the south, the tidally influenced Biloxi River on the east, and industrial land on the west (**Figure 1**). The former CCR Unit operated on 102-acres to support coal-fired electricity generation at Plant Watson until April 2015. Intake and discharge canals were installed to the north and west of the former CCR Unit, respectively, and saline water from the intake canal was used to sluice CCR into the former CCR Unit during coal-fired operations. In 2015, Plant Watson converted to a natural gas fired electricity generation process and the former CCR Unit was subsequently closed in May 2018.

In accordance with 40 CFR 257.91, a CCR groundwater monitoring system was installed at the boundary of the former CCR Unit at locations and depths to yield groundwater samples from the uppermost aquifer. Four distinct geologic units have been encountered at the site. Unit 1 is comprised of dike fill material and is underlain by Unit 2, a sandy clay aquitard. Unit 3 is the uppermost aquifer at the site and consists primarily of sand. The CCR monitoring well network is screened in Unit 3. Finally, Unit 4 is a clay aquitard with interbedded sands underlying Unit 3. The CCR monitoring well network was certified by a professional engineer (PE), and the certification was placed in the Operating Record. The locations of the CCR monitoring wells are shown on **Figure 2**.

Groundwater monitoring data collected during the semiannual monitoring events completed in August 2019 and March 2020 were statistically analyzed pursuant to 40 CFR 257.93(f) and using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009). Statistical analyses identified the following constituents at statistically significant levels (SSLs) above applicable groundwater protection standards (GWPSs):

- Arsenic: APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, and APMW-10;
- Barium: APMW-2;
- Combined Radium 226+228: APMW-1R, APMW-2, APMW-3, APMW-7, and APMW-9;
- Lithium: APMW-3, APMW-4, APMW-5, APMW-6R, and APMW-8; and
- Molybdenum: APMW-6R and APMW-8.

In accordance with 40 CFR 257.95(g), a notification identifying SSLs was prepared and placed in the Operating Record on January 13, 2020. Pursuant to 40 CFR 257.96, an assessment of corrective measures (ACM) was initiated on March 15, 2020.

1.2 Purpose

The purpose of this report is to demonstrate that:

- A naturally-occurring source of barium is present in the subsurface surrounding the former CCR Unit;
- A naturally-occurring source of barium caused the statistically elevated level (relative to background) of barium observed in groundwater downgradient of the former CCR Unit; and
- Porewater discharge from the former CCR Unit did not result in the elevated levels of barium observed in groundwater downgradient of the former CCR Unit.

2.0 ALTERNATE SOURCE DEMONSTRATION APPROACH

Mississippi Power identified an SSL of barium in monitoring well APMW-2 (**Figure 2**). This report demonstrates that a naturally-occurring source of barium caused the elevated level (relative to background) of barium observed in groundwater downgradient of the former CCR Unit, resulting in the SSL of barium.

2.1 Overview

The approach to the barium ASD for the former CCR Unit at Plant Watson relies on the following lines of evidence:

- Analysis of naturally-occurring barium in soils at the site;
- Analysis of barium in ash porewater and Unit 3 groundwater at the site;
- Analysis of the geochemical conditions at the site; and
- Analysis of barium in ash leachate at other CCR sites.

A brief description of the components of this ASD, including a description of field activities is presented below.

2.2 Analysis of Soils

Site soils were evaluated for naturally-occurring barium, which may include a mineral called barite (i.e., barium sulfate, the least soluble barium salt [API, 1995]) or other barium-containing minerals (e.g., mica or feldspar minerals). Elevated concentrations of barium throughout site soils, regardless of spatial proximity to the former CCR Unit would be indicative of naturally-occurring barium.

2.3 Statistical Comparison of Groundwater and Ash Porewater

A statistical comparison of barium concentrations in ash porewater relative to barium concentrations in Unit 3 groundwater was completed to evaluate ash porewater as a potential source of barium in APMW-2. If barium concentrations in ash porewater collected from the former CCR Unit are significantly lower than barium concentrations in Unit 3 groundwater, then the ash porewater is not considered to be a source for barium in Unit 3 groundwater.

2.4 Analysis of the Geochemical Conditions at the Site

An evaluation of the geochemical conditions that could result in the release of barium from naturally-occurring barite in site soils was completed using a geochemical model. If barite dissolution is responsible for the elevated concentrations of barium, then there should be a correlation between barium concentrations observed in groundwater and simulated barium concentrations released from barite dissolution.

In addition to evaluation of a potential barium source, the mechanism of barium release was simulated as well. Barite dissolution would release sulfate and therefore, should be controlled by sulfate concentrations. Sulfate concentrations in saline waters have been shown to control the solubility of barite and the saturation concentration of dissolved barium (API, 1995). Thus, with all other concentrations held constant, a decrease in sulfate should result in increased barite dissolution. Barite minerals are increasingly soluble in high ionic strength (saline) environments (API, 1995) and, as such, an increase in ionic strength (salinity) should increase barite dissolution.

2.5 Barium Concentrations at Other Sites

Ash leachate has been characterized at numerous different CCR sites around the country by the Electric Power Research Institute (EPRI; EPRI, 2016). Review of the mean concentrations of barium in leachate at other CCR sites can provide insight on the potential for release of barium from CCR units. The absence of elevated barium concentrations in ash leachate at numerous different CCR sites would suggest that barium is not typically released from CCR units.

2.6 Field Activities

The ASD approach included field investigations of naturally-occurring site materials as the source for the barium SSL observed at the downgradient location APMW-2. For this evaluation, direct push technology (DPT) borings were advanced at the locations shown on **Figure 3**.

- Ten DPT borings (DPT-1 through DPT-10) were advanced adjacent to the ten downgradient compliance monitoring wells (APMW-1 through APMW-10 in the CCR monitoring well network).
- Three DPT borings (DPT-11 through DPT-13) were completed in the vicinity of APMW-11 and APMW-12, the existing background monitoring well locations,

which are located upgradient of the former CCR Unit and therefore would not be influenced by discharge from the former CCR Unit.

Soil samples were collected from both the Unit 2 clay and the Unit 3 aquifer (see *Annual Groundwater Monitoring Report* [SCS, 2020] for more details on the site geology) within each DPT borehole. Groundwater samples were collected from the ten downgradient CCR monitoring wells. Soil and groundwater samples were analyzed for the following analytes.

DPT Locations or Monitoring Wells [Environmental Media]	Analytes	Compiled Data Location
DPT-1 through DPT-10 [Soil]	Appendix IV Uranium Thorium Acid Volatile Sulfide Barium (field test)	Table 1a
	Barite (X-ray diffraction; XRD)	Table 2
DPT-11 through DPT-13 [Soil]	Appendix IV Uranium Thorium	Table 1a
APMW-1 through APMW-10 [Groundwater]	Sulfate Sulfide (field test and laboratory)	Table 1b

Groundwater and soil samples were sent to TestAmerica and Mineralogy, Inc. (soil XRD analysis only), under chain of custody protocols. Compiled analytical results from TestAmerica and Mineralogy, Inc. are provided in **Tables 1a, 1b, and 2**, and laboratory reports are compiled in **Appendix A**. Boring logs for DPT points are presented in **Appendix B**.

3.0 ALTERNATE SOURCE DEMONSTRATION

The following sections describe data evaluation and assessment activities to evaluate alternate source(s) for the barium SSL at Plant Watson. The primary lines of evidence supporting the conclusion that the former CCR Unit is not the source of elevated barium observed in well APMW-2 include:

- Naturally-occurring barium is present in site soils;
- Ash porewater does not appear to be a source of statistically elevated barium in Unit 3 groundwater;
- Geochemical modeling indicates a naturally-occurring barium mineral called barite may account for the barium concentrations observed in Unit 3 groundwater; and
- Barium is not typically observed at elevated concentrations in groundwater at CCR sites.

3.1 Analysis of Soils

Site soils contain naturally-occurring barium. Barium was detected at concentrations ranging from 0.996 to 176 milligrams per kilogram (mg/kg) in soil samples from the ASD DPT investigation at locations adjacent to the ten downgradient CCR monitoring wells (**Table 1a**). Results of the soil analyses show barium was also present in upgradient soils greater than 30 mg/kg, which was greater than at least half of the barium concentrations in soil collected downgradient of the former CCR Unit (downgradient soils). The maximum barium concentration in downgradient soils was observed in APMW-4, which was not the location of the barium SSL in groundwater (i.e., APMW-2). The presence of barium at appreciable concentrations in upgradient site soils suggests the potential for a naturally-occurring source of barium in soil. In addition, the detection of barium in soil at APMW-4 at a concentration higher than concentrations in the soil at APMW-2 (where there is a corresponding SSL in groundwater), indicates that there may be a localized geochemical mechanism influencing barium solubility near APMW-2.

During the ASD DPT investigation, soils collected from DPT points adjacent to the ten downgradient CCR monitoring wells were analyzed in the field by X-ray fluorescence (XRF) as a screening tool to select the appropriate sample interval for mineralogical analysis by XRD (**Table 1a**). The results of the XRD analysis, summarized in **Table 2**,

did not identify barite mineral content above the XRD detection limit of 0.5%. However, barite concentrations less than 0.5% are likely present (see Section 3.3) and can serve as a natural source of barium to groundwater. The XRD analysis identified feldspathic and mica minerals in 80 and 70 percent, respectively, of the samples analyzed. Both of these mineral groups commonly contain barium as a replacement element (Klein, 1994) and are subject to processes that can result in the release of barium.

3.2 Analysis of Groundwater and Ash Porewater

Porewater samples from the former CCR unit do not contain concentrations of barium at concentrations that can account for barium observed in groundwater samples from well APMW-2. Analysis of ash porewater samples collected on September 19, 2019 indicate barium concentrations ranging from 0.075 to 0.78 milligrams per liter (mg/L) (**Table 3**). For comparison, the barium concentrations in the co-located samples from the underlying Unit 3 aquifer ranged from 0.18 to 1.5 mg/L.

The mean barium concentration in ash porewater was statistically compared using a Welch's t-test to the mean barium concentration in the underlying Unit 3 aquifer. The Welch's t-test is used to evaluate if two sample means are statistically different from one another. The Welch's t-test assumes that each dataset is normally distributed, but that the variances between the datasets are not equal. The results of this statistical test are presented in **Table 4** and indicate that, with 95% confidence, the mean barium concentration in the ash porewater is statistically different from the mean barium concentration in the Unit 3 aquifer. These observations are consistent with the conclusion that a source other than the former CCR Unit resulted in the barium SSL in Unit 3.

Barium concentrations in ash porewater were below the GWPS of 2 mg/L. To evaluate the likelihood that the mean barium concentration in the ash porewater would be below the GWPS regardless of spatial location in the former CCR Unit, a one-sample Student's t-test was performed. The Student's t-test assumes that the concentrations of barium in ash porewater are normally distributed. The results of the Student's t-test are presented in **Table 4** and indicate that, with 99% confidence, the mean barium concentration in ash porewater is below the GWPS of 2 mg/L. In addition, the 95% upper confidence limit (UCL95) of barium in ash porewater was calculated using ProUCL 5.1 (ProUCL; USEPA, 2015). ProUCL recommended using the UCL95 based upon Land's H-statistic, which estimated the UCL95 of total barium in ash porewater to be approximately 0.66 mg/L (i.e., below the GWPS of 2.0 mg/L) (**Appendix C**).

3.3 Analysis of the Geochemical Conditions at the Site

A geochemical model indicated geochemical conditions at the site could result in the release of barium from a common, naturally-occurring mineral called barite (i.e., barium sulfate) in site soils (see **Appendix D** for details). The findings of this modeling include:

- A strong positive correlation (coefficient of determination $[R^2] = 0.98$) between the observed barium concentration in Unit 3 groundwater and the simulated groundwater concentrations of barium released from barite dissolution (see **Figure 4**). This indicates that dissolution from naturally-occurring barite is the likely source for the observed barium concentrations in groundwater at the site.
- Low-levels of barite in site soils result in simulated concentrations similar to those observed at APMW-2. The model indicates that the amount of barite in soils necessary to achieve the simulated concentrations in groundwater is less than the detection limit of the XRD instrument of 0.5%.
- The model predicts that an increase in groundwater ionic strength (i.e., salinity) results in increased barium dissolution from barite. This is consistent with the finding that elevated ionic strength corresponded to an increased solubility of barite (API, 1995). A prior evaluation (SCS, 1995) indicated that the geochemical conditions of groundwater beneath the former CCR Unit resemble the adjacent saline/brackish surface water with high concentrations of total dissolved solids (TDS) and chloride (i.e., high ionic strength). Elevated levels of naturally-occurring TDS, chloride, and other components contributing to salinity could serve as a potential mechanism for release of barium from naturally-occurring barite in site soils.
- The model supports the theory that low concentrations of sulfate result in increased barium dissolution from barite. As barite dissolution would result in the release of sulfate, the concentration of sulfate in groundwater will limit barite dissolution (API, 1995). Low sulfate concentrations are observed in select downgradient monitoring wells (e.g., APMW-1R and AMPW-2), where barium groundwater concentrations are higher. Therefore, low sulfate driven barite dissolution could serve as a contributing mechanism to the observed barium SSL in APMW-2.

The model predictions and available literature (API, 1995) suggest that low levels of barite are likely present and a naturally-occurring source of barium in site soils. In addition, two potential mechanisms based on existing (naturally occurring) conditions exist at the site for barite dissolution (i.e., elevated ionic strength and low sulfate concentrations) that likely lead to the elevated concentration of barium observed in APMW-2.

3.4 Barium Concentrations at Other CCR Sites

In 2016, EPRI investigated the characterization of CCR leachate at numerous CCR sites (EPRI, 2016). Key findings from this investigation with respect to barium content include:

- 100% of the site-averaged concentrations of barium in CCR leachate were lower than the GWPS of 2 mg/L. 90% of average site concentrations were less than 0.1 mg/L.
- Due to low leachate concentrations and attenuation (complexation with sulfate) of barium, the potential for a barium SSL in groundwater due to a CCR unit release is low.
- Barium solubility at many sites was controlled by barite.

EPRI concluded that barium was not a likely constituent to be released from CCR units into groundwater. Review of this information suggests that the barium SSL is not due to a release from the former CCR Unit, consistent with literature review of ash leachate concentrations at CCR sites.

4.0 CONCLUSIONS

This ASD demonstrates that naturally-occurring sources of barium result in the elevated barium concentrations observed in groundwater at APMW-2, downgradient of the former CCR Unit. Supporting conclusions include the following:

- Naturally-occurring barium and likely barite are present in site soils as documented by soil analyses presented in this ASD. Barium is present in both upgradient and downgradient soil locations, which indicates the potential for a naturally-occurring source that may contribute to the elevated barium concentration observed in groundwater at APMW-2.
- Barium concentrations in ash porewater ranged from 0.075 to 0.78 mg/L, while barium in Unit 3 groundwater ranged from 0.18 to 1.5 mg/L. The barium concentration in the ash porewater is statistically lower, with 95% confidence, than the barium concentration observed in Unit 3 groundwater. In addition, statistical evaluation of the ash porewater data indicates that the mean (99% confidence) and UCL95 barium concentrations in the ash porewater do not exceed the GWPS. These observations are consistent with the conclusion that a source other than the ash porewater resulted in the barium SSL in Unit 3 groundwater.
- The geochemical model predictions suggest that low levels of barite are likely present and a naturally-occurring source of barium in site soils. Low concentrations of barite are anticipated to account for the barium concentrations observed in Unit 3 groundwater. As described in this ASD, two potential mechanisms exist at the site for barite dissolution that likely lead to the elevated concentration of barium observed in APMW-2.
- Based on the literature, barium concentrations in CCR leachate were consistently below the GWPS across numerous CCR sites. EPRI concluded that barium was not a likely constituent to be released from CCR units into groundwater.

The combination of these lines of evidence indicate that naturally-occurring sources of barium result in the elevated barium concentrations observed in APMW-2.

5.0 REFERENCES

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TABLES

Table 1a.
Summary of Soil Analytical Results for Barium Alternate Source Demonstration Investigation
Plant Watson, Gulfport, Mississippi

Sample ID	Sample Date	Depth (ft bgs)	Acid Volatile Sulfide (mg/kg)	Barium (average field XRF ¹) (ppm)	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Lead (mg/kg)	Lithium (mg/kg)	Molybdenum (mg/kg)	Selenium (mg/kg)	Thallium (mg/kg)	Uranium (mg/kg)	Thorium (mg/kg)	Ra 226 (pCi/g)	Ra 228 (pCi/g)	Combined Ra (pCi/g)
DPT-1-SS U2	4/20/2020	(22-24)	<6.55	1894	<0.226	4.17	10.6	0.149	<0.0271	7.51	0.285	4.09	2.85	0.721	0.566	<0.226	0.564	3.20	0.315	0.608	0.923
DPT-1-SS U3	4/20/2020	(38-40)	<6.08	1023	<0.256	<0.512	8.07	0.217	<0.0307	2.30	0.936	3.29	1.26 J	0.471 J	<0.410	<0.256	0.347	1.24	0.272	0.515	0.786
DPT-2-SS U2	4/21/2020	(26-27)	<6.12	365	<0.279	0.735 J	83.7	0.617	<0.0335	3.24	0.110 J	13.1	2.42	<0.279	1.31	<0.279	0.743	4.91	0.706	0.840	1.55
DPT-2-SS U3	4/21/2020	(37-38)	<6.00	278	<0.257	<0.514	2.23 J	<0.0514	<0.0309	1.29	0.215 J	0.629	<0.514	<0.257	<0.411	<0.257	<0.0514	0.273	<0.00380	<0.158	<0.162
DPT-3-SS U2	4/21/2020	(24-25)	<8.39	291	<0.300	5.10	65.8	0.853	0.222	9.84	13.5	9.68	3.28	0.813	1.45	<0.300	1.48	5.90	0.510	0.760	1.27
DPT-3-SS U3	4/21/2020	(29-30)	<5.76	328	<0.221	4.52	2.42	0.0483 J	0.0332 J	1.09 J	6.64	0.925	0.875 J	0.553 J	<0.354	<0.221	0.142	0.247	<0.0467	<0.144	<0.191
DPT-4-SS U2	4/21/2020	(15-16)	<13.1	206	<0.478	6.93	176	0.197 J	<0.0574	8.01	1.70	3.23	3.73	3.53	1.15 J	<0.478	1.10	1.44	0.292	0.428	0.721
DPT-4-SS U3	4/21/2020	(28-29)	<5.88	230	<0.213	<0.425	4.19	<0.0425	<0.0255	<0.479	0.150 J	0.512	0.530 J	<0.213	<0.340	<0.213	0.0523 J	0.108 J	<0.0385	<0.123	<0.162
DPT-5-SS U2	4/22/2020	(17-18)	<6.59	258	<0.233	1.28	60.3	0.331	<0.0280	5.96	0.743	7.82	2.40	<0.233	0.744	<0.233	0.384	4.06	0.307	<0.354	0.661
DPT-5-SS U3	4/22/2020	(23-24)	<6.1	244	<0.218	<0.437	6.64	<0.0437	<0.0262	0.629 J	<0.0819	0.436	<0.437	0.263 J	<0.349	<0.218	<0.0437	0.129 J	0.133	<0.238	<0.370
DPT-6-SS U2	4/22/2020	(11-12)	<7.54	293	<0.293	1.75	20.5	0.192	<0.0352	7.74	1.08	10.1	2.79	0.536 J	0.848	<0.293	0.689	4.58	0.475	0.767	1.24
DPT-6-SS U3	4/22/2020	(25-26)	<6.42	368	<0.220	0.963 J	2.22	0.0472 J	<0.0263	0.642 J	0.0979 J	0.405	0.462 J	3.14	<0.351	<0.220	<0.0439	0.117 J	<0.0201	<0.00443	<0.0245
DPT-7-SS U2	4/23/2020	(18-19)	<6.47	430	<0.233	2.00	20.4	0.248	<0.0280	6.02	1.33	9.95	3.23	<0.233	0.893	<0.233	0.418	4.11	0.433	0.547	0.98
DPT-7-SS U3	4/23/2020	(27-28)	<8.74	193	<0.231	<0.463	2.69	<0.0463	<0.0278	0.705 J	0.32	0.802	<0.463	<0.231	<0.370	<0.231	0.0474 J	0.300	0.333	0.406	0.739
DPT-8-SS U2	4/24/2020	(25-26)	<7.53	278	<0.220	1.55	17.5	0.0663 J	<0.0264	3.81	0.568	3.32	1.81	0.273 J	<0.353	<0.220	0.365	1.89	0.311	0.439	0.751
DPT-8-SS U3	4/24/2020	(39-40)	<6.24	340	<0.234	<0.468	2.37	<0.0468	<0.0281	0.865 J	<0.0878	1.63	<0.468	2.60	<0.374	<0.234	0.108 J	0.818	0.364	0.48	0.844
DPT-9-SS U2	4/24/2020	(27-28)	<6.4	228	<0.219	1.40	25.3	0.231	<0.0263	4.86	0.280	6.39	1.97	<0.219	0.914	<0.219	0.451	3.76	0.459	0.497	0.956
DPT-9-SS U3	4/24/2020	(32-33)	<5.6	223	<0.234	<0.467	1.03 J	<0.0467	<0.0280	0.734 J	<0.0876	0.322 J	<0.467	<0.234	<0.374	<0.234	0.0491 J	0.159 J	<0.0899	<0.302	<0.392
DPT-10-SS U2	4/24/2020	(22-23)	<5.82	287	<0.218	1.03 J	26.0	0.0740 J	<0.0261	3.95	0.255	4.91	2.94	<0.218	0.481 J	<0.218	0.259	2.37	0.428	0.618	1.05
DPT-10-SS U3	4/24/2020	(25-26)	<6.45	194	<0.228	<0.456	1.37 J	<0.0456	<0.0274	0.880 J	<0.0855	0.526	0.834 J	0.339 J	<0.365	<0.228	<0.0456	0.171 J	<0.0708	<0.125	<0.196
DPT-11-SS U2	4/27/2020	(17-33)	--	--	<0.274	9.06	30.6	1.32	0.0468 J	7.85	5.07	10.6	6.72	1.12	2.07	<0.274	2.27	6.12	1.02	1.02	2.04
DPT-11-SS U3	4/27/2020	(36-48)	--	--	<0.230	<0.460	6.67	0.0577 J	<0.0276	1.66	0.936	2.23	1.17	0.374 J	<0.368	<0.230	0.817	0.988	0.162	<0.112	<0.275
DPT-12-SS U2	4/27/2020	(24-34)	--	--	<0.229	0.803 J	22.6	0.164	<0.0275	3.12	0.335	9.82	4.70	0.263 J	0.751	<0.229	0.984	4.47	0.773	0.502	1.28
DPT-12-SS U3	4/27/2020	(35-48)	--	--	<0.221	<0.441	0.996 J	<0.0441	<0.0265	<0.496	0.144 J	0.384	<0.441	<0.221	<0.353	<0.221	<0.0441	0.118 J	<0.0734	<0.179	<0.253
DPT-13-SS U2	4/28/2020	(28-40)	--	--	<0.235	0.796 J	32.8	0.495	<0.0282	7.10	0.968	11.4	4.62	0.691	1.18	<0.235	1.06	6.37	0.491	<0.275	0.767
DPT-13-SS U3	4/28/2020	(44-52)	--	--	<0.232	<0.464	1.06 J	<0.0464	<0.0279	<0.522	0.194 J	0.291 J	<0.464	<0.232	<0.372	<0.232	<0.0464	0.110 J	<0.0634	<0.00751	<0.0709

- Notes:**
1. Field barium concentrations were the average of three individual field measurements (XRF indicates x-ray fluorescence).
 2. Ra indicates radium
 3. U2 indicates Unit 2 and U3 indicates Unit 3
 4. DPT indicates direct push technology; SS indicates soil sample
 5. ft bgs indicates feet below ground surface; -- indicates not measured
 6. J indicates result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value; < indicates the result was less than the sample detection limit
 7. mg/kg indicates milligrams per kilogram; pCi/g indicates picocuries per gram

Table 1b.
Summary of Select Groundwater Analytical Results for Barium Alternate Source Demonstration Investigation
Plant Watson, Gulfport, Mississippi

Sample ID	Sample Date	Sulfide (field Hach kit) (mg/L)	Sulfide (mg/L)	Sulfate (mg/L)
APWM-1R	4/21/2020	0.37	0.771	2.4 J
APMW-2	4/21/2020	0.00	<0.0570	1.56 J
AMPW-3	4/21/2020	0.00	<0.0570	1060
APMW-4	4/21/2020	1.96	2.09	302
APMW-5	4/21/2020	0.00	<0.0570	963
APMW-6R	4/21/2020	0.00	<0.0570	818
APMW-7	4/20/2020	5.3	4.29	72.4
APMW-8	4/20/2020	0.477	0.620	615
APMW-9	4/20/2020	0.00	<0.0570	290
APMW-10	4/20/2020	0.00	0.0671 J	88.9

Notes:

1. J indicates result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
2. < indicates the result was less than the sample detection limit
3. mg/L indicates milligrams per liter

Table 2.
X-Ray Diffraction (XRD) Analytical Results
Plant Watson, Gulfport, Mississippi

Sample ID	Depth (ft bgs)	Unit	Quartz (SiO ₂)	Plagioclase Feldspar ((Na,Ca)AlSi ₃ O ₈)	K-Feldspar (KAlSi ₃ O ₈)	Goethite (alpha-FeOOH)	Halite (NaCl)	Pyrite (FeS ₂)	Siderite (FeCO ₃)	Anhydrite (CaSO ₄)	Magnetite (alpha-Fe ₃ O ₄)	Clay/Mica	Amorphous
DPT-1-SS U2	(22-24)	%	74	--	0.5	1.5	--	--	--	--	--	24	--
DPT-1-SS U3	(38-40)	%	97	--	2	--	--	<0.5	--	--	--	1	--
DPT-2-SS U2	(26-27)	%	69	0.5	1	--	--	--	--	--	--	29.5	--
DPT-2-SS U3	(37-38)	%	99	--	0.5	--	--	<0.5	--	--	--	0.5	--
DPT-3-SS U2	(24-25)	%	64	--	2.5	--	--	--	--	0.5	--	33	--
DPT-3-SS U3	(29-30)	%	97.5	--	0.5	--	0.5	0.5	--	--	--	1	--
DPT-4-SS U2	(15-16)	%	35	0.5	0.5	--	--	--	--	--	--	34	30
DPT-4-SS U3	(28-29)	%	99	--	0.5	--	--	--	--	--	0.5	--	--
DPT-5-SS U2	(17-18)	%	84	0.5	2	--	--	--	0.5	--	--	13	--
DPT-5-SS U3	(23-24)	%	100	--	--	--	--	--	--	--	--	--	--
DPT-6-SS U2	(11-12)	%	85	--	1	--	--	--	--	--	--	14	--
DPT-6-SS U3	(25-26)	%	100	--	--	--	--	--	--	--	--	--	--
DPT-7-SS U2	(18-19)	%	67	<0.5	2	--	--	1	--	--	--	30	--
DPT-7-SS U3	(27-28)	%	90	--	2	--	--	--	--	--	--	8	--
DPT-8-SS U2	(25-26)	%	64	--	1	--	--	--	--	--	--	35	--
DPT-8-SS U3	(39-40)	%	100	--	<0.2	--	--	--	--	--	--	<0.2	--
DPT-9-SS U2	(27-28)	%	48	--	1	2	--	--	1.5	--	0.5	47	--
DPT-9-SS U3	(32-33)	%	99	--	0.5	--	--	--	--	--	0.5	--	--
DPT-10-SS U2	(22-23)	%	58.5	--	0.5	--	--	--	--	--	--	41	--
DPT-10-SS U3	(25-26)	%	100	--	--	--	--	--	--	--	--	--	--

Notes:

1. ft bgs indicates feet below ground surface; -- indicates not detected
2. U2 indicates Unit 2 and U3 indicates Unit 3
3. DPT indicates Direct Push Technology; SS indicates soil sample
4. Barite was not detected above 0.5% in any samples (0.5% is the detection limit for barite via XRD).

Table 3.
Summary of Analytical Results from Interior Piezometers
Plant Watson, Gulfport, Mississippi

Sample ID	Sample Date	Unit	Total Radium 226+228 (pCi/L)	Oil & Grease (mg/L)	Ammonia (mg/L)	Total Kjeldahl N (mg/L)	Nitrate Nitrite as N (mg/L)	Bromide (mg/L)	Fluoride (mg/L)	Nitrate as N (mg/L)	Nitrite as N (mg/L)	Orthophosphate as P (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	Aluminum (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)
1S-GS	9/19/2019	Ash	0.787	4 J B	1.3 B	1.4	0.054	12 J	<0.66	<0.58	<0.72	<1.6	690	5000	0.075	0.0026	0.16	0.11
2S-GS	9/19/2019	Ash	0.960	4.5 J B	24 B	3.0	0.038 J	16.00	<0.66	<0.58	<0.72	<1.7	1300	5600	0.095	0.0044	0.16	0.075
3S-GS	9/20/2019	Ash	0.759	2.2 J B	0.9 B	1.1	0.028 J B	8.30	<0.26	<0.23	1.2	<0.62	650	2700	0.59	0.0064	0.16	0.09
4A-GS	9/20/2019	Ash	3.28	2.5 J B	2.4 B	2.5	<0.020 F1	6.1	0.45 J	<0.23	1	<0.62	370	1900	0.039	<0.00038	0.044	0.29
4B-GS	9/20/2019	Ash	0.921	2.8 J B	1.2 B	1.4	0.028 J B	5.90	<0.26	<0.23	1.00	<0.62	800	2000	<0.013	<0.00038	0.064	0.11
5S-GS	9/23/2019	Ash	1.11	2.1 J B	1.7 B	1.8	0.042 J	21	<0.66	<0.58	2.40	<1.6	1200	6300	0.093	0.0016 J	0.16	0.13
6S-GS	9/23/2019	Ash	4.16	1.6 J B	4.9 B	3.2	0.067	15.00	<0.066	<0.58	<0.72	<1.6	480	4500	0.069	0.00085 J	1.6	0.78
1D-GS	9/19/2019	Unit 3	4.37	2.00 J B	4.60 B	4.9	0.043 J	9.90 J	<0.66	<0.58	<0.72	<1.60	67	3400	0.14	0.0017 J	0.017	1.00
2D-GS	9/19/2019	Unit 3	5.90	2.8 J B	4.9 B	5.7	0.07	14	<0.66	<0.58	<0.72	<1.6	140	4100	0.13	0.00059 J	0.091	0.86
4D-GS	9/20/2019	Unit 3	4.45	3.5 J B	6.6 B	7.6	0.035 J B	32	<1.3	<1.2	5.10	<3.1	1000	10000	0.11	<0.00038	0.11	0.18
5D-GS	9/23/2019	Unit 3	5.99	3.1 J B	4.6 B	4.6	0.031 J	24	<0.66	<0.58	2.50	<1.6	1000	2900	<0.013	<0.00038	0.0045	0.21
6D-GS	9/20/2019	Unit 3	6.37	2.1 J B	1 B	1.0	0.063 B	13	<0.66	<0.58	<0.72	<1.6	130	3100	0.21	<0.00038	0.0090	1.50
7D-GS	9/23/2019	Unit 3	5.37	5.8 B	5.4	4.5	0.027 J	18	0.66 J	<0.58	<0.72	<1.6	860	5200	0.033	<0.00038	0.0025	0.23

Notes:

1. < indicates the result was less than the sample detection limit
2. J indicates result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value
3. B indicates compound was found in the blank and sample
4. F1 indicates MS and/or MSD Recovery is outside acceptance limits.
5. pCi/L indicates picocuries per liter; mg/L indicates milligrams per liter

Table 3.
Summary of Analytical Results from Interior Piezometers
Plant Watson, Gulfport, Mississippi

Sample ID	Sample Date	Unit	Beryllium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Cooper (mg/L)	Iron (mg/L)	Lead (mg/L)	Lithium (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Potassium (mg/L)	Selenium (mg/L)
1S-GS	9/19/2019	Ash	0.00024 J	7.2	0.00035 J	390	<0.0015	<0.000075	0.0014 J	0.085	<0.00013	0.13	110	0.052	1.2	0.0015	89	<0.0015
2S-GS	9/19/2019	Ash	<0.00018	22	0.0019	930	<0.0015	<0.000075	0.0021	<0.020	<0.00013	0.13	17	0.029	8.5	0.0026	110	0.009
3S-GS	9/20/2019	Ash	0.0007 J	19	0.00092 J	460	0.13	0.0015	0.0036	0.53	0.00078 J	0.1	2.5	0.018	2.5	0.062	54	0.003 J
4A-GS	9/20/2019	Ash	0.0006 J	5.2	<0.00013	270	<0.0015	0.0072	0.0007 J	9.9	0.00021 J	<0.0034	110	4.6	0.093	<0.00034	26	<0.0015
4B-GS	9/20/2019	Ash	0.00042 J	3.2	<0.00013	340	<0.0015	0.0063	0.0037	4.2	<0.00013	0.0034 J	160	6.7	0.039	0.002	19	<0.0015
5S-GS	9/23/2019	Ash	<0.00018	18	0.0007 J	740	0.0024	0.00049 J	0.00078 J	0.044 J	<0.00013	0.14	37	0.052	3.4	0.015	150	0.0023 J
6S-GS	9/23/2019	Ash	<0.00018	17	0.0011	530	<0.0015	0.00032 J	<0.00063	0.49	<0.00013	0.29	32	0.17	5.6	0.002	120	<0.0015
1D-GS	9/19/2019	Unit 3	<0.00018	6.2	<0.00013	420	<0.0015	0.00011 J	0.0012 J	0.042 J	<0.00013	0.075	21	0.11	0.03	0.0012	91	<0.0015
2D-GS	9/19/2019	Unit 3	0.00018 J	17	<0.00013	490	<0.0015	0.00016 J	0.00012 J	2.7	0.00047 J	0.079	96	0.48	0.18	0.0012	70	0.0015 J
4D-GS	9/20/2019	Unit 3	0.00065 J	5	<0.00013	310	<0.0015	0.00019 J	<0.00063	8.5	0.00022 J	0.13	610	0.76	0.066	0.00039 J	180	0.0016 J
5D-GS	9/23/2019	Unit 3	<0.00018	13	<0.00013	320	0.0017 J	0.00026 J	<0.00063	75	<0.00013	0.034	180	0.92	0.0028 J	0.00051 J	76	<0.0015
6D-GS	9/20/2019	Unit 3	0.0048	8.2	<0.0013	270	0.0023	0.0025	0.0012 J	110	<0.00013	0.15	180	1.2	0.025	0.0049	35	<0.0015
7D-GS	9/23/2019	Unit 3	<0.00018	20	<0.00013	650	0.0024	0.00038 J	0.0007 J	2.9	<0.00013	0.038	61	0.14	0.009	0.00065 J	100	<0.0015

Notes:

1. < indicates the result was less than the sample detection limit
2. J indicates result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value
3. mg/L indicates milligrams per liter

Table 3.
Summary of Analytical Results from Interior Piezometers
Plant Watson, Gulfport, Mississippi

Sample ID	Sample Date	Unit	Silver (mg/L)	Sodium (mg/L)	Strontium (mg/L)	Thallium (mg/L)	Tin (mg/L)	Titanium (mg/L)	Vanadium (mg/L)	Zinc (mg/L)	Silicon (mg/L)	Mercury (mg/L)	Carbon Dioxide (µg/L)	Alkalinity, Bicarbonate (mg/L)	Alkalinity, Carbonate (mg/L)	Alkalinity, Total (mg/L)	Hydroxide Alkalinity (mg/L)	Calcium Hardness (CaCO ₃) (mg/L)
1S-GS	9/19/2019	Ash	<0.00018	2100	4.3	0.003 B	<0.0018	0.003 J	0.053	<0.0032	2.5 ^	<0.00010	1800 J	48 H	<0.79 H	48 H	<0.79 H	970
2S-GS	9/19/2019	Ash	<0.00018	2200	8.2	0.0073 B	<0.0018	<0.0025	0.15	<0.0032	1.8 ^	<0.00010	<1800	50 H	<0.79 H	50 H	<0.79 H	2300
3S-GS	9/20/2019	Ash	<0.00018	1200	6.6	<0.00015	-	0.0091	0.04	0.004 J	4	<0.00010	<1800	<0.79	93	93	1.6 J	1100
4A-GS	9/20/2019	Ash	<0.00018	880	3.8	<0.00015	-	<0.0025	0.0012	0.0033 J	10	<0.00010	80000	350	<0.79	350	<0.79	670
4B-GS	9/20/2019	Ash	<0.00018	1100	3	0.0002 J	-	<0.0025	0.0017	0.0042 J	12	<0.00010	160000	460	<0.79	460	<0.79	850
5S-GS	9/23/2019	Ash	<0.00018	2700	9.1	0.0014	-	0.0033 J	0.0062	0.0035 J	4	<0.00010	<1800	35	14	48	<0.79	1800
6S-GS	9/23/2019	Ash	<0.00018	1800	7	0.00021 J	-	0.0033 J	0.0018	0.0042 J	6.1	<0.00010	2300 J	73	<0.79	73	<0.79	1300
1D-GS	9/19/2019	Unit 3	<0.00018	1700	2.5	<0.00015	<0.0018	0.0046 J	0.0044	0.004 J	7 ^	<0.00010	38000	340 H	<0.79 H	340 H	<0.79 H	1000
2D-GS	9/19/2019	Unit 3	<0.00018	2100	6.1	<0.00015	<0.0018	0.01	0.0072	0.011	7.2 ^	<0.00010	120000	810 H	<0.79 H	810 H	<0.79 H	1200
4D-GS	9/20/2019	Unit 3	<0.00018	5700 ^	7.1	0.00075 J	-	0.0043 J	0.0015	0.0038 J	21	<0.00010	44000	420	<0.79	420	<0.79	770
5D-GS	9/23/2019	Unit 3	<0.00018	2000	2.8	<0.00015	-	<0.0025	0.0019	0.0038 J	31	<0.00010	140000	280	<0.79	280	<0.79	800
6D-GS	9/20/2019	Unit 3	<0.00018	980	2.9	<0.00015	-	0.0037 J	0.0033	0.0063	22	<0.00010	390000	220	<0.79	220	<0.79	670
7D-GS	9/23/2019	Unit 3	<0.00018	2300	7.4	<0.00015	-	0.00298 J	0.0018	0.0047 J	11	<0.00010	8600	300	<0.79	300	<0.79	1600

Notes:

1. < indicates the result was less than the sample detection limit
2. J indicates result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value
3. H indicates sample was prepped or analyzed beyond the specified holding time
4. ^ indicates ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits
5. - indicates not measured
6. B indicates compound was found in the blank and sample
7. mg/L indicates milligrams per liter

Table 3.
Summary of Analytical Results from Interior Piezometers
Plant Watson, Gulfport, Mississippi

Sample ID	Sample Date	Unit	Hardness (CaCO ₃) (mg/L)	Magnesium Hardness (CaCO ₃) (mg/L)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	Carbon Dioxide, Free (mg/L)	Temperature (°C)	pH (SU)	Phosphorus (mg/L)	TOC - Duplicates (mg/L)
1S-GS	9/19/2019	Ash	1400	450	5300 H	1	0.5	20.5 HF	8.3 HF	<0.0050	1.1
2S-GS	9/19/2019	Ash	2400	70	10000 H	0.90	0.4	20.3 HF	8.4 HF	0.11	1.5
3S-GS	9/20/2019	Ash	1200	10	2300	4.2	<0.10	19.6 HF	9.2 HF	0.014	1.1
4A-GS	9/20/2019	Ash	1100	450	3400	21	40	19.8 HF	7.2 HF	0.081	2.9
4B-GS	9/20/2019	Ash	1500	660	4300	7.8	75	19.5 HF	7.1 HF	<0.0050	3.7
5S-GS	9/23/2019	Ash	2000	150	6900 H	<0.50	0.2	19.2 HF	8.5 HF	<0.0050	0.94
6S-GS	9/23/2019	Ash	1500	130	5000 H	1.3	1.20	18.4 HF	8.1 HF	<0.0050	1.4
1D-GS	9/19/2019	Unit 3	1100	86	5800 H	4.1	11	20.5 HF	7.8 HF	<0.0050	5.4
2D-GS	9/19/2019	Unit 3	1600	400	5800 H	2.8	55	20.3 HF	7.4 HF	<0.0050	6.7
4D-GS	9/20/2019	Unit 3	3300	2500	9000 H	32	30	20.1 HF	7.4 HF	<0.0050	3.7
5D-GS	9/23/2019	Unit 3	1500	730	4700 H	81	80	18.8 HF	6.8 HF	0.046	3
6D-GS	9/20/2019	Unit 3	1400	740	5400 H	4.1	210	19.4 HF	6.3 HF	0.092	7.8
7D-GS	9/23/2019	Unit 3	1900	250	5900 H	9.2	7.5	18.6 HF	7.9 HF	<0.0050	3

Notes:

- < indicates the result was less than the sample detection limit
- J indicates result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value
- H indicates sample was prepped or analyzed beyond the specified holding time
- HF indicates result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

Table 4.
Student T-test and Welch's T-test Results for Barium in Former CCR Unit Porewater and Unit 3 Groundwater
Plant Watson, Gulfport, Mississippi

Parameter	Barium in Ash Porewater (Student's T)	Barium in Unit 3 (Student's T)	Barium (Welch's T)
Sample Count (n)	7	6	--
Sample Mean (x)	0.226	0.663	--
Standard Deviation (d)	0.236	0.496	--
Population Mean (u)	2	2	--
degrees of freedom (v)	6	5	6.902
t	-19.92	-6.59	-1.97
P(T<t)	0.00000052	0.00060	0.04452
Summary of Sample Means	99% confidence that barium is < GWPS	99% confidence that barium is < GWPS	95% confidence barium in ash is statistically lower than Unit 3

Notes:

1. Student's T calculation
$$t = \frac{x - u}{\frac{d}{\sqrt{n}}}$$

2. Welch's T-test calculation
$$t = \frac{x_1 - x_2}{\sqrt{\frac{d_1^2}{n_1} + \frac{d_2^2}{n_2}}}$$

$$v = \frac{\left(\frac{d_1^2}{n_1} + \frac{d_2^2}{n_2}\right)^2}{\frac{d_1^4}{n_1^2(n_1 - 1)} + \frac{d_2^4}{n_2^2(n_2 - 1)}}$$

3. Population mean is the groundwater protection standard (GWPS).
4. -- indicates these values are the same as those used in the Student's T test
5. Where applicable, units are in milligrams per liter (mg/L)
6. CCR indicates coal combustion residuals

FIGURES



- Legend**
- Former CCR Unit Boundary
 - RaceTrac Gas Station Property Boundary
 - Plant Watson Property Boundary

Notes:
 1. Property boundary georeferenced from Southern Company Services, 2020. Groundwater Monitoring Report. Mississippi Power Company. Plant Watson Ash Pond. 21 February.
 2. CCR - Coal Combustion Residuals
 3. Aerial Source: Google Earth Imagery 3/18/2019



0 1,000 Feet

Site Location Map

Plant Watson
 Gulfport, Mississippi

Geosyntec
 consultants

Figure





1

Pensacola, FL

August 2020



Legend

- APMW-1  CCR Monitoring Well
- APMW-13  New Background CCR Monitoring Well
- APMW-11  Existing Background CCR Monitoring Well
-  Former CCR Unit Boundary

Notes:
 1. CCR - Coal Combustion Residuals
 2. Aerial Source: Google Earth Imagery 3/18/2019



CCR Monitoring Well Network

Plant Watson
 Gulfport, Mississippi

Geosyntec
 consultants

Pensacola, FL






August 2020

Figure

2



Legend

- APMW-1  CCR Monitoring Well
- APMW-13  New Background CCR Monitoring Well
- APMW-11  Existing Background CCR Monitoring Well
- DPT-11  DPT Boring
-  Former CCR Unit Boundary

- Notes:
1. CCR - Coal Combustion Residuals
 2. DPT - Direct Push Technology
 3. Aerial Source: Google Earth Imagery 3/18/2019



DPT Sample Locations for Barium Alternate Source Demonstration

Plant Watson
Gulfport, Mississippi

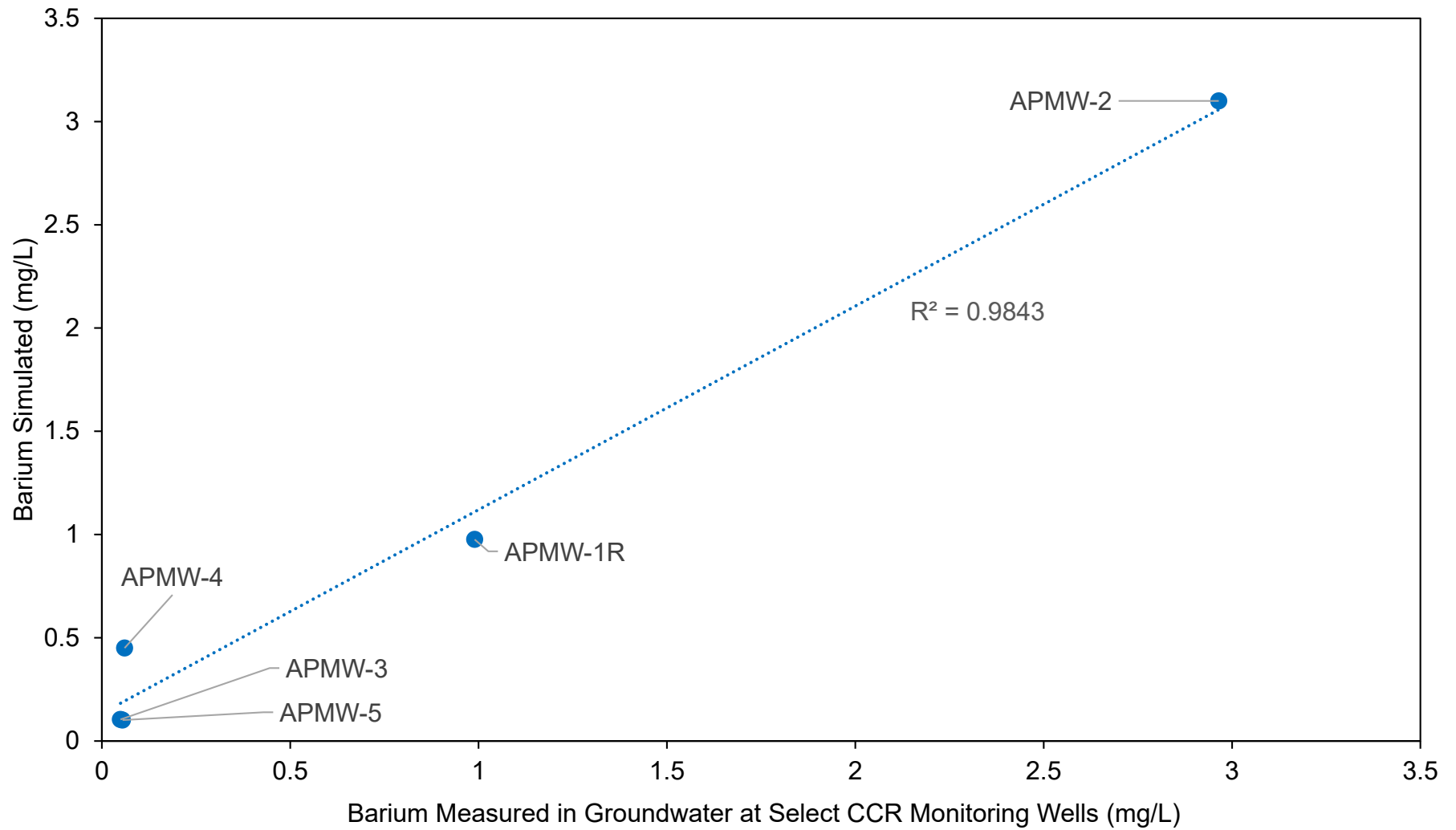
Geosyntec
consultants

Figure

3

Pensacola, FL

August 2020



Notes:

1. Simulated barium concentrations based on geochemical model completed in PHREEQC Version 3
2. Measured groundwater data is an average from sampling events completed between 2018 and 2020.
3. CCR is coal combustion residuals
4. mg/L is milligrams per liter

Correlation of Barium in Select CCR Monitoring Wells to Modeled Barium Concentrations

Plant Watson
Gulfport, Mississippi

Geosyntec
consultants

Pensacola, FL

August 2020

Figure

4

APPENDIX A


Analytical Laboratory Reports



Test Report

Client:	Geosyntec Consultants, Inc.	MI#:	20087
Project:	Southern Company	Date:	05/14/20
Location:	Plant Watson	P.O.#:	N/A

Client	Geosyntec Consultants, Inc.		
	5420 Corporate Blvd #202		
	Baton Rouge, LA 70809		
	Attn: Lauren Fitzgerald		
Email	LAFitzgerald@Geosyntec.com	Phone	678-718-4746

Method(s)	Calibration Date	Timothy B. Murphy
X-ray Diffraction	05/05/20	

- [Conditions & Qualifications](#)
- [Table I.1](#)
- [Table I.2](#)
- [Table I.3](#)
- [Table I.4](#)
- [Table I.5](#)
- [Table I.6](#)



CONDITIONS AND QUALIFICATIONS

Mineralogy, Inc. will endeavor to provide accurate and reliable laboratory measurements of the samples provided by the client. The results of any x-ray diffraction, petrographic or core analysis test are necessarily influenced by the condition and selection of the samples to be analyzed. It should be recognized that geological samples are commonly heterogeneous and lack uniform properties. Mineralogical, geochemical and/or petrographic data obtained for a specific sample provides compositional data pertinent to that specific sampling location. Such “site-specific data” may fail to provide adequate characterization of the range of compositional variability possible within a given project area, thus the “projection” of these laboratory findings and values to adjoining, “untested” areas of the formation or project area is inherently risky, and exceeds the scope of the laboratory work request. Hence, Mineralogy, Inc. shall not assume any liability risk or responsibility for any loss or potential failure associated with the application of “site or sample-specific laboratory data” to “untested” areas of the formation or project area. Unless otherwise directed, the samples selected for analysis will be chosen to reflect a visually representative portion of the bulk sample submitted for analysis. Where provided, the interpretation of x-ray diffraction, petrographic or core analysis results constitutes the best geological judgment of Mineralogy, Inc., and is subject to the sampling limitations described above, and the detection limits inherent to semi-quantitative and/or qualitative mineralogical and microscopic analysis. Mineralogy, Inc. assumes no responsibility nor offers any guarantee of the productivity, suitability or performance of any oil or gas well, hydrocarbon recovery process, dimension stone, and/or ore material based upon the data or conclusions presented in this report.

This report is to only be replicated in its entirety.

Sample Retention: Samples will be stored for a period of 30 days and thereafter discarded. If additional sample storage time and/or return shipping is required, appropriate charges will be billed to the client.



X-ray Diffraction

Table I.1

Client:	Geosyntec Consultants, Inc.	MI#:	20087
Project:	Southern Company	P.O.#:	N/A
Location:	Plant Watson	Method:	X-ray Diffraction

Mineral Constituent	Lab ID:	20087-01	20087-02	20087-03	20087-04
	Sample ID:	DPT-1-22-24	DPT-1-38-40	DPT-2-26-27	DPT-37-38
	Chemical Formula	Relative Abundance (%)			
Quartz	SiO ₂	74	97	69	99
Plagioclase Feldspar	(Na,Ca)AlSi ₃ O ₈			0.5	
K-Feldspar	KAlSi ₃ O ₈	0.5	2	1	0.5
Goethite	alpha-FeOOH	1.5			
Pyrite	FeS ₂		<0.5		<0.5
Clay / Mica		24	1	29.5	0.5
Total		100	100	100	100



X-ray Diffraction

Table I.2

Client:	Geosyntec Consultants, Inc.	MI#:	20087
Project:	Southern Company	P.O.#:	N/A
Location:	Plant Watson	Method:	X-ray Diffraction

Mineral Constituent	Lab ID:	20087-05	20087-06	20087-07	20087-08
	Sample ID:	DPT-3-24-25	DPT-3-29-30	DPT-4-15-16	DPT-4-28-29
	Chemical Formula	Relative Abundance (%)			
Quartz	SiO ₂	64	97.5	35	99
Plagioclase Feldspar	(Na,Ca)AlSi ₃ O ₈			0.5	
K-Feldspar	KAlSi ₃ O ₈	2.5	0.5	0.5	0.5
Halite	NaCl		0.5		
Pyrite	FeS ₂		0.5		
Anhydrite	CaSO ₄	0.5			
Magnetite	alpha-Fe ₃ O ₄				0.5
Clay / Mica		33	1	34	
Amorphous				30	
Total		100	100	100	100



X-ray Diffraction

Table I.3

Client:	Geosyntec Consultants, Inc.	MI#:	20087
Project:	Southern Company	P.O.#:	N/A
Location:	Plant Watson	Method:	X-ray Diffraction

Mineral Constituent	Lab ID:	20087-09	20087-10	20087-11	20087-12
	Sample ID:	DPT-5-17-18	DPT-5-23-24	DPT-6-11-12	DPT-6-25-26
	Chemical Formula	Relative Abundance (%)			
Quartz	SiO ₂	84	100	85	100
Plagioclase Feldspar	(Na,Ca)AlSi ₃ O ₈	0.5			
K-Feldspar	KAlSi ₃ O ₈	2		1	
Siderite	FeCO ₃	0.5			
Clay / Mica		13		14	
Total		100	100	100	100



X-ray Diffraction

Table I.4

Client:	Geosyntec Consultants, Inc.	MI#:	20087
Project:	Southern Company	P.O.#:	N/A
Location:	Plant Watson	Method:	X-ray Diffraction

Mineral Constituent	Lab ID:	20087-13	20087-14	20087-15	20087-16
	Sample ID:	DPT-7-18-19	DPT-7-27-28	DPT-8-25-26	DPT-8-39-40
	Chemical Formula	Relative Abundance (%)			
Quartz	SiO ₂	67	90	64	100
Plagioclase Feldspar	(Na,Ca)AlSi ₃ O ₈	<0.5			
K-Feldspar	KAlSi ₃ O ₈	2	2	1	<0.2
Pyrite	FeS ₂	1			
Clay / Mica		30	8	35	<0.2
Total		100	100	100	100



X-ray Diffraction

Table I.5

Client:	Geosyntec Consultants, Inc.	MI#:	20087
Project:	Southern Company	P.O.#:	N/A
Location:	Plant Watson	Method:	X-ray Diffraction

Mineral Constituent	Lab ID:	20087-17	20087-18	20087-19
	Sample ID:	DPT-9-27-28	DPT-9-32-33	DPT-10-22-23
	Chemical Formula	Relative Abundance (%)		
Quartz	SiO ₂	48	99	58.5
K-Feldspar	KAlSi ₃ O ₈	1	0.5	0.5
Goethite	alpha-FeOOH	2		
Siderite	FeCO ₃	1.5		
Magnetite	alpha-Fe ₃ O ₄	0.5	0.5	
Clay / Mica		47		41
Total		100	100	100



X-ray Diffraction

Table I.6

Client:	Geosyntec Consultants, Inc.	MI#:	20087
Project:	Southern Company	P.O.#:	N/A
Location:	Plant Watson	Method:	X-ray Diffraction

Mineral Constituent	Lab ID:	20087-20	20087-22	20087-23
	Sample ID:	DPT-10-25-26	DUP-01	DUP-02
	Chemical Formula	Relative Abundance (%)		
Quartz	SiO ₂	100	100	77
Plagioclase Feldspar	(Na,Ca)AlSi ₃ O ₈			1
K-Feldspar	KAlSi ₃ O ₈		<0.5	1
Clay / Mica				21
Total		100	100	100

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-95981-1
Client Project/Site: CCR - Plant Watson

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
10/24/2019 4:38:45 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Job ID: 180-95981-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-95981-1

Comments

No additional comments.

Receipt

The samples were received on 9/20/2019 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 1.7° C.

GC VOA

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

GC Semi VOA

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

Metals

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

General Chemistry

Method(s) SM 5310C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-293568 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4) and DUP-01 (180-95981-5).

Method(s) SM 2540C: Reanalysis of the following samples were performed outside of the analytical holding time due to confirmation of over-residue; both results are reported : 1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4) and DUP-01 (180-95981-5).

Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4), DUP-01 (180-95981-5) and (180-95981-F-1 DU). The reporting limits (RLs) have been adjusted proportionately.

Method(s) SM 2320B: Reanalysis of the following samples were performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. 1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4) and DUP-01 (180-95981-5)

Method(s) 351.2: The inter-parameter relationship does not meet acceptable criteria. Reanalysis was preformed, and the results confirmed.

2S-GS (180-95981-4)

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

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Qualifiers

GC VOA

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.

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
California	State	2931	04-01-20
Connecticut	State	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	03-31-20
Georgia	State Program	10026 (NY)	03-31-20
Georgia (DW)	State	956	03-31-20
Iowa	State	374	02-28-21
Kansas	NELAP	E-10187	01-31-20
Kentucky (DW)	State	90029	12-31-20
Kentucky (UST)	State	30	03-31-20
Kentucky (UST)	State Program	30	03-31-20
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-05-20
Maine	State Program	NY00044	12-04-20
Maryland	State	294	03-31-20
Massachusetts	State	M-NY044	06-30-20
Massachusetts	State Program	M-NY044	06-30-20
Michigan	State	9937	03-31-20
Minnesota	NELAP	1524384	12-31-19
New Hampshire	NELAP	2337	11-17-19 *
New Hampshire	NELAP	2337	11-17-19
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-01-20
North Dakota	State	R-176	03-31-20
Oklahoma	State	9421	09-01-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Rhode Island	State	LAO00328	12-30-20
Tennessee	State	02970	03-31-20
Texas	NELAP	T104704412-18-10	08-01-20
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Virginia	NELAP	460185	09-14-20
Washington	State	C784	02-10-20
Wisconsin	State	998310390	08-31-20

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

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-20
Connecticut	State	PH-0751	09-30-19 *
Connecticut	State Program	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-19
New Hampshire	NELAP	2006	12-18-19
New Hampshire	NELAP	2006	10-18-19
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	03-31-20
Pennsylvania	NELAP	68-00489	04-30-20
Rhode Island	State	LAO00298	12-30-19
Rhode Island	State Program	LAO00298	12-30-19
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-19
Virginia	NELAP	460209	12-14-19

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

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95981-1	1S-GS	Water	09/19/19 11:02	09/20/19 08:45	
180-95981-2	1D-GS	Water	09/19/19 11:55	09/20/19 08:45	
180-95981-3	2D-GS	Water	09/19/19 14:40	09/20/19 08:45	
180-95981-4	2S-GS	Water	09/19/19 14:29	09/20/19 08:45	
180-95981-5	DUP-01	Water	09/19/19 07:00	09/20/19 08:45	

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

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL BUR
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL PIT
1664B	HEM and SGT-HEM	1664B	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PIT
SM 4500 CO2 B	Free Carbon Dioxide	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF
SM 5310C	Total Organic Carbon	SM	TAL PIT
1664B	HEM and SGT-HEM (Aqueous)	1664B	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
7470A	Preparation, Mercury	SW846	TAL PIT
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

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

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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 BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 1S-GS

Lab Sample ID: 180-95981-1

Date Collected: 09/19/19 11:02

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147625	09/23/19 17:54	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292051	09/20/19 21:52	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292051	09/20/19 22:07	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:21	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 04:15	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 11:53	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			974 mL	1000 mL	495418	10/02/19 10:19	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			495523	10/02/19 16:08	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	495213	10/01/19 12:58	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495570	10/02/19 19:45	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495816	10/03/19 09:49	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	495068	09/30/19 22:04	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator		1	25 mL	25 mL	496193	10/05/19 00:00	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495175	10/01/19 10:29	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292382	09/24/19 09:54	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495554	10/01/19 19:00	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			293568	10/02/19 15:41	CLL	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 1D-GS

Lab Sample ID: 180-95981-2

Date Collected: 09/19/19 11:55

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147625	09/23/19 18:02	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292051	09/20/19 22:22	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292051	09/20/19 22:37	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:25	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 04:19	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 11:55	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			982 mL	1000 mL	495418	10/02/19 10:19	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			495523	10/02/19 16:08	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		5	5 mL	5 mL	495217	10/01/19 13:28	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495570	10/02/19 19:45	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495816	10/03/19 09:49	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	495068	09/30/19 22:08	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator		1	25 mL	25 mL	496193	10/05/19 00:07	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495175	10/01/19 10:29	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292382	09/24/19 09:54	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495554	10/01/19 19:06	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			293568	10/02/19 15:57	CLL	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 2D-GS

Lab Sample ID: 180-95981-3

Date Collected: 09/19/19 14:40

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147625	09/23/19 18:11	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292051	09/20/19 22:52	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292051	09/20/19 23:06	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:28	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 04:34	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 11:56	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			967 mL	1000 mL	495418	10/02/19 10:19	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			495523	10/02/19 16:08	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		5	5 mL	5 mL	495217	10/01/19 13:28	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495570	10/02/19 19:45	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		2			495816	10/03/19 10:25	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	495068	09/30/19 22:09	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator		1	25 mL	25 mL	496193	10/05/19 00:17	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495175	10/01/19 10:29	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292382	09/24/19 09:54	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495554	10/01/19 19:09	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			293568	10/02/19 16:12	CLL	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 2S-GS

Lab Sample ID: 180-95981-4

Date Collected: 09/19/19 14:29

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147625	09/23/19 18:20	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292051	09/20/19 23:51	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292051	09/21/19 00:06	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:38	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 04:38	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 11:57	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			971 mL	1000 mL	495418	10/02/19 10:19	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			495523	10/02/19 16:08	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		20	5 mL	5 mL	495217	10/01/19 13:29	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495838	10/03/19 18:05	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			496240	10/06/19 14:10	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	495068	09/30/19 22:12	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator		1	25 mL	25 mL	496193	10/05/19 00:23	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495175	10/01/19 10:29	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292382	09/24/19 09:54	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495554	10/01/19 19:11	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			293568	10/02/19 16:26	CLL	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: DUP-01

Lab Sample ID: 180-95981-5

Date Collected: 09/19/19 07:00

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147653	09/24/19 15:29	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292051	09/21/19 00:21	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292051	09/21/19 00:36	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292814	09/26/19 12:54	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			293633	10/03/19 01:51	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 11:58	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			980 mL	1000 mL	495418	10/02/19 10:19	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			495523	10/02/19 16:08	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		2	5 mL	5 mL	495217	10/01/19 13:30	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495570	10/02/19 19:45	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495816	10/03/19 09:49	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	495068	09/30/19 22:14	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator		1	25 mL	25 mL	496193	10/05/19 00:29	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495175	10/01/19 10:29	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292382	09/24/19 09:54	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495554	10/01/19 19:14	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genysis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			293568	10/02/19 16:41	CLL	TAL PIT

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Analyst References:

Lab: TAL BUF

Batch Type: Prep

CLT = Christine Thomas

CRK = Christian Kriner

LAW = Larry Wolfe

Batch Type: Analysis

AEF = Alex Fritz

BEF = Brianna Fallon

CLT = Christine Thomas

CRK = Christian Kriner

CSS = Chandler Stone

KEB = Katherine Bauer

MTM2 = Michael Mosscrop

RP = Rosemary Pietras

Lab: TAL BUR

Batch Type: Analysis

MLT = Melissa Tice

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

Batch Type: Analysis

AGP = Angela Partridge

CLL = Cheryl Loheyde

CMR = Carl Reagle

MM1 = Mary Beth Miller

RJR = Ron Rosenbaum

RSK = Robert Kurtz

WTR = Bill Reinheimer

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 1S-GS

Lab Sample ID: 180-95981-1

Date Collected: 09/19/19 11:02

Matrix: Water

Date Received: 09/20/19 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	1800	J	5000	1800	ug/L			09/23/19 17:54	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/20/19 21:52	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/20/19 21:52	25
Fluoride	<0.66		2.5	0.66	mg/L			09/20/19 21:52	25
Chloride	5000		250	180	mg/L			09/20/19 22:07	250
Bromide	12	J	13	2.2	mg/L			09/20/19 21:52	25
Sulfate	690		25	9.5	mg/L			09/20/19 21:52	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/20/19 21:52	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0026		0.0020	0.00038	mg/L		09/26/19 08:59	10/16/19 04:15	1
Aluminum	0.075		0.030	0.013	mg/L		09/26/19 08:59	10/16/19 04:15	1
Arsenic	0.16		0.0010	0.00032	mg/L		09/26/19 08:59	10/16/19 04:15	1
Beryllium	0.00024	J	0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:15	1
Boron	7.2		0.080	0.039	mg/L		09/26/19 08:59	10/16/19 04:15	1
Cadmium	0.00035	J	0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:15	1
Barium	0.11		0.010	0.0016	mg/L		09/26/19 08:59	10/16/19 04:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 08:59	10/16/19 04:15	1
Copper	0.0014	J	0.0020	0.00063	mg/L		09/26/19 08:59	10/16/19 04:15	1
Calcium	390		0.50	0.13	mg/L		09/26/19 08:59	10/16/19 04:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:15	1
Nickel	0.0015		0.0010	0.00034	mg/L		09/26/19 08:59	10/16/19 04:15	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/26/19 08:59	10/16/19 04:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/26/19 08:59	10/16/19 04:15	1
Thallium	0.0030	B	0.0010	0.00015	mg/L		09/26/19 08:59	10/16/19 04:15	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/26/19 08:59	10/16/19 04:15	1
Iron	0.085		0.050	0.020	mg/L		09/26/19 08:59	10/16/19 04:15	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:15	1
Potassium	89		0.50	0.16	mg/L		09/26/19 08:59	10/16/19 04:15	1
Magnesium	110		0.50	0.083	mg/L		09/26/19 08:59	10/16/19 04:15	1
Manganese	0.052		0.0050	0.0014	mg/L		09/26/19 08:59	10/16/19 04:15	1
Molybdenum	1.2		0.0050	0.00061	mg/L		09/26/19 08:59	10/16/19 04:15	1
Sodium	2100		0.50	0.35	mg/L		09/26/19 08:59	10/16/19 04:15	1
Strontium	4.3		0.0050	0.00076	mg/L		09/26/19 08:59	10/16/19 04:15	1
Titanium	0.0030	J	0.0050	0.0025	mg/L		09/26/19 08:59	10/16/19 04:15	1
Vanadium	0.053		0.0010	0.00099	mg/L		09/26/19 08:59	10/16/19 04:15	1
Lithium	0.13		0.0050	0.0034	mg/L		09/26/19 08:59	10/16/19 04:15	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 08:59	10/16/19 04:15	1
Silicon	2.5	^	0.50	0.13	mg/L		09/26/19 08:59	10/16/19 21:21	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:53	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 1S-GS

Lab Sample ID: 180-95981-1

Date Collected: 09/19/19 11:02

Matrix: Water

Date Received: 09/20/19 08:45

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1400		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	970		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	450		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	4.0	J B	5.1	1.4	mg/L		10/02/19 10:19	10/02/19 16:08	1
Ammonia	1.3	B	0.20	0.10	mg/L		10/01/19 06:45	10/01/19 12:58	1
Total Kjeldahl Nitrogen	1.4		0.20	0.15	mg/L		10/02/19 19:45	10/03/19 09:49	1
Nitrate Nitrite as N	0.054		0.050	0.020	mg/L			09/30/19 22:04	1
Alkalinity, Total	48	H	5.0	0.79	mg/L			10/05/19 00:00	1
Alkalinity, Bicarbonate	48	H	5.0	0.79	mg/L			10/05/19 00:00	1
Alkalinity, Carbonate	<0.79	H	5.0	0.79	mg/L			10/05/19 00:00	1
Hydroxide Alkalinity	<0.79	H	5.0	0.79	mg/L			10/05/19 00:00	1
Total Dissolved Solids	5300	H	100	40	mg/L			10/01/19 10:29	1
Total Suspended Solids	1.0		0.50	0.50	mg/L			09/24/19 09:54	1
Carbon Dioxide, Free	0.50		0.10	0.10	mg/L			10/21/19 13:52	1
pH	8.3	HF	0.1	0.1	SU			10/01/19 19:00	1
Temperature	20.5	HF	0.001	0.001	Degrees C			10/01/19 19:00	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	1.1		1.0	0.51	mg/L			10/02/19 15:41	1

Client Sample ID: 1D-GS

Lab Sample ID: 180-95981-2

Date Collected: 09/19/19 11:55

Matrix: Water

Date Received: 09/20/19 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	38000		5000	1800	ug/L			09/23/19 18:02	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/20/19 22:22	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/20/19 22:22	25
Fluoride	<0.66		2.5	0.66	mg/L			09/20/19 22:22	25
Chloride	3400		250	180	mg/L			09/20/19 22:37	250
Bromide	9.9	J	13	2.2	mg/L			09/20/19 22:22	25
Sulfate	67		25	9.5	mg/L			09/20/19 22:22	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/20/19 22:22	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0017	J	0.0020	0.00038	mg/L		09/26/19 08:59	10/16/19 04:19	1
Aluminum	0.14		0.030	0.013	mg/L		09/26/19 08:59	10/16/19 04:19	1
Arsenic	0.017		0.0010	0.00032	mg/L		09/26/19 08:59	10/16/19 04:19	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:19	1
Boron	6.2		0.080	0.039	mg/L		09/26/19 08:59	10/16/19 04:19	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:19	1
Barium	1.0		0.010	0.0016	mg/L		09/26/19 08:59	10/16/19 04:19	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 1D-GS

Lab Sample ID: 180-95981-2

Date Collected: 09/19/19 11:55

Matrix: Water

Date Received: 09/20/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 08:59	10/16/19 04:19	1
Copper	0.0012	J	0.0020	0.00063	mg/L		09/26/19 08:59	10/16/19 04:19	1
Calcium	420		0.50	0.13	mg/L		09/26/19 08:59	10/16/19 04:19	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:19	1
Nickel	0.0012		0.0010	0.00034	mg/L		09/26/19 08:59	10/16/19 04:19	1
Cobalt	0.00011	J	0.00050	0.000075	mg/L		09/26/19 08:59	10/16/19 04:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/26/19 08:59	10/16/19 04:19	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/26/19 08:59	10/16/19 04:19	1
Zinc	0.0040	J	0.0050	0.0032	mg/L		09/26/19 08:59	10/16/19 04:19	1
Iron	0.042	J	0.050	0.020	mg/L		09/26/19 08:59	10/16/19 04:19	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:19	1
Potassium	91		0.50	0.16	mg/L		09/26/19 08:59	10/16/19 04:19	1
Magnesium	21		0.50	0.083	mg/L		09/26/19 08:59	10/16/19 04:19	1
Manganese	0.11		0.0050	0.0014	mg/L		09/26/19 08:59	10/16/19 04:19	1
Molybdenum	0.030		0.0050	0.00061	mg/L		09/26/19 08:59	10/16/19 04:19	1
Sodium	1700		0.50	0.35	mg/L		09/26/19 08:59	10/16/19 04:19	1
Strontium	2.5		0.0050	0.00076	mg/L		09/26/19 08:59	10/16/19 04:19	1
Titanium	0.0046	J	0.0050	0.0025	mg/L		09/26/19 08:59	10/16/19 04:19	1
Vanadium	0.0044		0.0010	0.00099	mg/L		09/26/19 08:59	10/16/19 04:19	1
Lithium	0.075		0.0050	0.0034	mg/L		09/26/19 08:59	10/16/19 04:19	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 08:59	10/16/19 04:19	1
Silicon	7.0	^	0.50	0.13	mg/L		09/26/19 08:59	10/16/19 21:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:55	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1100		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	1000		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	86		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.0	J B	5.1	1.4	mg/L		10/02/19 10:19	10/02/19 16:08	1
Ammonia	4.6	B	1.0	0.50	mg/L		10/01/19 06:45	10/01/19 13:28	5
Total Kjeldahl Nitrogen	4.9		0.20	0.15	mg/L		10/02/19 19:45	10/03/19 09:49	1
Nitrate Nitrite as N	0.043	J	0.050	0.020	mg/L			09/30/19 22:08	1
Alkalinity, Total	340	H	5.0	0.79	mg/L			10/05/19 00:07	1
Alkalinity, Bicarbonate	340	H	5.0	0.79	mg/L			10/05/19 00:07	1
Alkalinity, Carbonate	<0.79	H	5.0	0.79	mg/L			10/05/19 00:07	1
Hydroxide Alkalinity	<0.79	H	5.0	0.79	mg/L			10/05/19 00:07	1
Total Dissolved Solids	5800	H	100	40	mg/L			10/01/19 10:29	1
Total Suspended Solids	4.1		0.50	0.50	mg/L			09/24/19 09:54	1
Carbon Dioxide, Free	11		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.8	HF	0.1	0.1	SU			10/01/19 19:06	1
Temperature	20.5	HF	0.001	0.001	Degrees C			10/01/19 19:06	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 1D-GS

Date Collected: 09/19/19 11:55

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-2

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	5.4		1.0	0.51	mg/L			10/02/19 15:57	1

Client Sample ID: 2D-GS

Date Collected: 09/19/19 14:40

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-3

Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	120000		5000	1800	ug/L			09/23/19 18:11	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/20/19 22:52	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/20/19 22:52	25
Fluoride	<0.66		2.5	0.66	mg/L			09/20/19 22:52	25
Chloride	4100		250	180	mg/L			09/20/19 23:06	250
Bromide	14		13	2.2	mg/L			09/20/19 22:52	25
Sulfate	140		25	9.5	mg/L			09/20/19 22:52	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/20/19 22:52	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00059	J	0.0020	0.00038	mg/L		09/26/19 08:59	10/16/19 04:34	1
Aluminum	0.13		0.030	0.013	mg/L		09/26/19 08:59	10/16/19 04:34	1
Arsenic	0.091		0.0010	0.00032	mg/L		09/26/19 08:59	10/16/19 04:34	1
Beryllium	0.00018	J	0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:34	1
Boron	17		0.080	0.039	mg/L		09/26/19 08:59	10/16/19 04:34	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:34	1
Barium	0.86		0.010	0.0016	mg/L		09/26/19 08:59	10/16/19 04:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 08:59	10/16/19 04:34	1
Copper	0.0012	J	0.0020	0.00063	mg/L		09/26/19 08:59	10/16/19 04:34	1
Calcium	490		0.50	0.13	mg/L		09/26/19 08:59	10/16/19 04:34	1
Lead	0.00047	J	0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:34	1
Nickel	0.0012		0.0010	0.00034	mg/L		09/26/19 08:59	10/16/19 04:34	1
Cobalt	0.00016	J	0.00050	0.000075	mg/L		09/26/19 08:59	10/16/19 04:34	1
Selenium	0.0015	J	0.0050	0.0015	mg/L		09/26/19 08:59	10/16/19 04:34	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/26/19 08:59	10/16/19 04:34	1
Zinc	0.011		0.0050	0.0032	mg/L		09/26/19 08:59	10/16/19 04:34	1
Iron	2.7		0.050	0.020	mg/L		09/26/19 08:59	10/16/19 04:34	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:34	1
Potassium	70		0.50	0.16	mg/L		09/26/19 08:59	10/16/19 04:34	1
Magnesium	96		0.50	0.083	mg/L		09/26/19 08:59	10/16/19 04:34	1
Manganese	0.48		0.0050	0.0014	mg/L		09/26/19 08:59	10/16/19 04:34	1
Molybdenum	0.18		0.0050	0.00061	mg/L		09/26/19 08:59	10/16/19 04:34	1
Sodium	2100		0.50	0.35	mg/L		09/26/19 08:59	10/16/19 04:34	1
Strontium	6.1		0.0050	0.00076	mg/L		09/26/19 08:59	10/16/19 04:34	1
Titanium	0.010		0.0050	0.0025	mg/L		09/26/19 08:59	10/16/19 04:34	1
Vanadium	0.0072		0.0010	0.00099	mg/L		09/26/19 08:59	10/16/19 04:34	1
Lithium	0.079		0.0050	0.0034	mg/L		09/26/19 08:59	10/16/19 04:34	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 08:59	10/16/19 04:34	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 2D-GS

Lab Sample ID: 180-95981-3

Date Collected: 09/19/19 14:40

Matrix: Water

Date Received: 09/20/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	7.2	^	0.50	0.13	mg/L		09/26/19 08:59	10/16/19 21:28	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:56	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1600		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	1200		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	400		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.8	J B	5.2	1.4	mg/L		10/02/19 10:19	10/02/19 16:08	1
Ammonia	4.9	B	1.0	0.50	mg/L		10/01/19 06:45	10/01/19 13:28	5
Total Kjeldahl Nitrogen	5.7		0.40	0.30	mg/L		10/02/19 19:45	10/03/19 10:25	2
Nitrate Nitrite as N	0.070		0.050	0.020	mg/L			09/30/19 22:09	1
Alkalinity, Total	810	H	5.0	0.79	mg/L			10/05/19 00:17	1
Alkalinity, Bicarbonate	810	H	5.0	0.79	mg/L			10/05/19 00:17	1
Alkalinity, Carbonate	<0.79	H	5.0	0.79	mg/L			10/05/19 00:17	1
Hydroxide Alkalinity	<0.79	H	5.0	0.79	mg/L			10/05/19 00:17	1
Total Dissolved Solids	5800	H	100	40	mg/L			10/01/19 10:29	1
Total Suspended Solids	2.8		0.50	0.50	mg/L			09/24/19 09:54	1
Carbon Dioxide, Free	55		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.4	HF	0.1	0.1	SU			10/01/19 19:09	1
Temperature	20.3	HF	0.001	0.001	Degrees C			10/01/19 19:09	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	6.7		1.0	0.51	mg/L			10/02/19 16:12	1

Client Sample ID: 2S-GS

Lab Sample ID: 180-95981-4

Date Collected: 09/19/19 14:29

Matrix: Water

Date Received: 09/20/19 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/23/19 18:20	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/20/19 23:51	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/20/19 23:51	25
Fluoride	<0.66		2.5	0.66	mg/L			09/20/19 23:51	25
Chloride	5600		250	180	mg/L			09/21/19 00:06	250
Bromide	16		13	2.2	mg/L			09/20/19 23:51	25
Sulfate	1300		25	9.5	mg/L			09/20/19 23:51	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/20/19 23:51	25

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 2S-GS

Lab Sample ID: 180-95981-4

Date Collected: 09/19/19 14:29

Matrix: Water

Date Received: 09/20/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0044		0.0020	0.00038	mg/L		09/26/19 08:59	10/16/19 04:38	1
Aluminum	0.095		0.030	0.013	mg/L		09/26/19 08:59	10/16/19 04:38	1
Arsenic	0.16		0.0010	0.00032	mg/L		09/26/19 08:59	10/16/19 04:38	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:38	1
Boron	22		0.080	0.039	mg/L		09/26/19 08:59	10/16/19 04:38	1
Cadmium	0.0019		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:38	1
Barium	0.075		0.010	0.0016	mg/L		09/26/19 08:59	10/16/19 04:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 08:59	10/16/19 04:38	1
Copper	0.0021		0.0020	0.00063	mg/L		09/26/19 08:59	10/16/19 04:38	1
Calcium	930		0.50	0.13	mg/L		09/26/19 08:59	10/16/19 04:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:38	1
Nickel	0.0026		0.0010	0.00034	mg/L		09/26/19 08:59	10/16/19 04:38	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/26/19 08:59	10/16/19 04:38	1
Selenium	0.0090		0.0050	0.0015	mg/L		09/26/19 08:59	10/16/19 04:38	1
Thallium	0.0073	B	0.0010	0.00015	mg/L		09/26/19 08:59	10/16/19 04:38	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/26/19 08:59	10/16/19 04:38	1
Iron	<0.020		0.050	0.020	mg/L		09/26/19 08:59	10/16/19 04:38	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:38	1
Potassium	110		0.50	0.16	mg/L		09/26/19 08:59	10/16/19 04:38	1
Magnesium	17		0.50	0.083	mg/L		09/26/19 08:59	10/16/19 04:38	1
Manganese	0.029		0.0050	0.0014	mg/L		09/26/19 08:59	10/16/19 04:38	1
Molybdenum	8.5		0.0050	0.00061	mg/L		09/26/19 08:59	10/16/19 04:38	1
Sodium	2200		0.50	0.35	mg/L		09/26/19 08:59	10/16/19 04:38	1
Strontium	8.2		0.0050	0.00076	mg/L		09/26/19 08:59	10/16/19 04:38	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/26/19 08:59	10/16/19 04:38	1
Vanadium	0.15		0.0010	0.00099	mg/L		09/26/19 08:59	10/16/19 04:38	1
Lithium	0.13		0.0050	0.0034	mg/L		09/26/19 08:59	10/16/19 04:38	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 08:59	10/16/19 04:38	1
Silicon	1.8	^	0.50	0.13	mg/L		09/26/19 08:59	10/16/19 21:38	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:57	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	2400		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	2300		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	70		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	4.5	J B	5.1	1.4	mg/L		10/02/19 10:19	10/02/19 16:08	1
Ammonia	24	B	4.0	2.0	mg/L		10/01/19 06:45	10/01/19 13:29	20
Total Kjeldahl Nitrogen	3.0		0.20	0.15	mg/L		10/03/19 18:05	10/06/19 14:10	1
Nitrate Nitrite as N	0.038	J	0.050	0.020	mg/L			09/30/19 22:12	1
Alkalinity, Total	50	H	5.0	0.79	mg/L			10/05/19 00:23	1
Alkalinity, Bicarbonate	50	H	5.0	0.79	mg/L			10/05/19 00:23	1
Alkalinity, Carbonate	<0.79	H	5.0	0.79	mg/L			10/05/19 00:23	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 2S-GS

Lab Sample ID: 180-95981-4

Date Collected: 09/19/19 14:29

Matrix: Water

Date Received: 09/20/19 08:45

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity	<0.79	H	5.0	0.79	mg/L			10/05/19 00:23	1
Total Dissolved Solids	10000	H	100	40	mg/L			10/01/19 10:29	1
Total Suspended Solids	0.90		0.50	0.50	mg/L			09/24/19 09:54	1
Carbon Dioxide, Free	0.40		0.10	0.10	mg/L			10/21/19 13:52	1
pH	8.4	HF	0.1	0.1	SU			10/01/19 19:11	1
Temperature	20.3	HF	0.001	0.001	Degrees C			10/01/19 19:11	1
Phosphorus	0.11		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	1.5		1.0	0.51	mg/L			10/02/19 16:26	1

Client Sample ID: DUP-01

Lab Sample ID: 180-95981-5

Date Collected: 09/19/19 07:00

Matrix: Water

Date Received: 09/20/19 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/24/19 15:29	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/21/19 00:21	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/21/19 00:21	25
Fluoride	<0.66		2.5	0.66	mg/L			09/21/19 00:21	25
Chloride	6300		250	180	mg/L			09/21/19 00:36	250
Bromide	16		13	2.2	mg/L			09/21/19 00:21	25
Sulfate	1300		25	9.5	mg/L			09/21/19 00:21	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/21/19 00:21	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0038		0.0020	0.00038	mg/L		09/26/19 12:54	10/03/19 01:51	1
Aluminum	0.22		0.030	0.013	mg/L		09/26/19 12:54	10/03/19 01:51	1
Arsenic	0.14		0.0010	0.00032	mg/L		09/26/19 12:54	10/03/19 01:51	1
Beryllium	0.00030	J	0.0010	0.00018	mg/L		09/26/19 12:54	10/03/19 01:51	1
Boron	20		0.080	0.039	mg/L		09/26/19 12:54	10/03/19 01:51	1
Cadmium	0.0021		0.0010	0.00013	mg/L		09/26/19 12:54	10/03/19 01:51	1
Barium	0.073		0.010	0.0016	mg/L		09/26/19 12:54	10/03/19 01:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 12:54	10/03/19 01:51	1
Copper	0.0063		0.0020	0.00063	mg/L		09/26/19 12:54	10/03/19 01:51	1
Calcium	880		0.50	0.13	mg/L		09/26/19 12:54	10/03/19 01:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/26/19 12:54	10/03/19 01:51	1
Nickel	0.0017		0.0010	0.00034	mg/L		09/26/19 12:54	10/03/19 01:51	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/26/19 12:54	10/03/19 01:51	1
Selenium	0.0082		0.0050	0.0015	mg/L		09/26/19 12:54	10/03/19 01:51	1
Thallium	0.0071		0.0010	0.00015	mg/L		09/26/19 12:54	10/03/19 01:51	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/26/19 12:54	10/03/19 01:51	1
Iron	<0.020		0.050	0.020	mg/L		09/26/19 12:54	10/03/19 01:51	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 12:54	10/03/19 01:51	1
Potassium	110		0.50	0.16	mg/L		09/26/19 12:54	10/03/19 01:51	1
Magnesium	16		0.50	0.083	mg/L		09/26/19 12:54	10/03/19 01:51	1
Manganese	0.027		0.0050	0.0014	mg/L		09/26/19 12:54	10/03/19 01:51	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: DUP-01

Lab Sample ID: 180-95981-5

Date Collected: 09/19/19 07:00

Matrix: Water

Date Received: 09/20/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	7.7		0.0050	0.00061	mg/L		09/26/19 12:54	10/03/19 01:51	1
Sodium	2000		0.50	0.35	mg/L		09/26/19 12:54	10/03/19 01:51	1
Strontium	7.9		0.0050	0.00076	mg/L		09/26/19 12:54	10/03/19 01:51	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/26/19 12:54	10/03/19 01:51	1
Vanadium	0.14		0.0010	0.00099	mg/L		09/26/19 12:54	10/03/19 01:51	1
Lithium	0.13		0.0050	0.0034	mg/L		09/26/19 12:54	10/03/19 01:51	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 12:54	10/03/19 01:51	1
Silicon	2.0		0.50	0.13	mg/L		09/26/19 12:54	10/03/19 01:51	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:58	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	2300		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	2200		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	66		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.9	J B	5.1	1.4	mg/L		10/02/19 10:19	10/02/19 16:08	1
Ammonia	3.8	B	0.40	0.20	mg/L		10/01/19 06:45	10/01/19 13:30	2
Total Kjeldahl Nitrogen	3.0		0.20	0.15	mg/L		10/02/19 19:45	10/03/19 09:49	1
Nitrate Nitrite as N	0.036	J	0.050	0.020	mg/L			09/30/19 22:14	1
Alkalinity, Total	51	H	5.0	0.79	mg/L			10/05/19 00:29	1
Alkalinity, Bicarbonate	50	H	5.0	0.79	mg/L			10/05/19 00:29	1
Alkalinity, Carbonate	1.1	J H	5.0	0.79	mg/L			10/05/19 00:29	1
Hydroxide Alkalinity	<0.79	H	5.0	0.79	mg/L			10/05/19 00:29	1
Total Dissolved Solids	9900	H	100	40	mg/L			10/01/19 10:29	1
Total Suspended Solids	1.5		0.50	0.50	mg/L			09/24/19 09:54	1
Carbon Dioxide, Free	0.40		0.10	0.10	mg/L			10/21/19 13:52	1
pH	8.4	HF	0.1	0.1	SU			10/01/19 19:14	1
Temperature	20.4	HF	0.001	0.001	Degrees C			10/01/19 19:14	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	1.5		1.0	0.51	mg/L			10/02/19 16:41	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-147625/25
Matrix: Water
Analysis Batch: 147625

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L	-		09/23/19 17:10	1

Lab Sample ID: MB 200-147625/4
Matrix: Water
Analysis Batch: 147625

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L	-		09/23/19 14:08	1

Lab Sample ID: LCS 200-147625/23
Matrix: Water
Analysis Batch: 147625

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	40000	41800		ug/L	-	104	70 - 130

Lab Sample ID: LCSD 200-147625/24
Matrix: Water
Analysis Batch: 147625

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
Carbon dioxide	40000	48300		ug/L	-	121	70 - 130	15	30

Lab Sample ID: MB 200-147653/4
Matrix: Water
Analysis Batch: 147653

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L	-		09/23/19 20:22	1

Lab Sample ID: LCS 200-147653/2
Matrix: Water
Analysis Batch: 147653

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	40000	46600		ug/L	-	117	70 - 130

Lab Sample ID: LCSD 200-147653/3
Matrix: Water
Analysis Batch: 147653

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
Carbon dioxide	40000	48700		ug/L	-	122	70 - 130	4	30

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-292051/35
Matrix: Water
Analysis Batch: 292051

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/20/19 19:08	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/20/19 19:08	1
Fluoride	<0.026		0.10	0.026	mg/L			09/20/19 19:08	1
Chloride	<0.71		1.0	0.71	mg/L			09/20/19 19:08	1
Bromide	<0.087		0.50	0.087	mg/L			09/20/19 19:08	1
Sulfate	<0.38		1.0	0.38	mg/L			09/20/19 19:08	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/20/19 19:08	1

Lab Sample ID: LCS 180-292051/34
Matrix: Water
Analysis Batch: 292051

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	1.25	1.16		mg/L		93	90 - 110
Nitrite as N	1.25	1.24		mg/L		99	90 - 110
Fluoride	1.25	1.22		mg/L		97	90 - 110
Chloride	25.0	25.5		mg/L		102	90 - 110
Bromide	5.00	4.72		mg/L		94	90 - 110
Sulfate	25.0	24.0		mg/L		96	90 - 110
Orthophosphate as P	1.25	1.23		mg/L		99	90 - 110

Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-292738/1-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/26/19 08:59	10/16/19 02:21	1
Aluminum	<0.013		0.030	0.013	mg/L		09/26/19 08:59	10/16/19 02:21	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/26/19 08:59	10/16/19 02:21	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 02:21	1
Boron	<0.039		0.080	0.039	mg/L		09/26/19 08:59	10/16/19 02:21	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 02:21	1
Barium	<0.0016		0.010	0.0016	mg/L		09/26/19 08:59	10/16/19 02:21	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 08:59	10/16/19 02:21	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/26/19 08:59	10/16/19 02:21	1
Calcium	<0.13		0.50	0.13	mg/L		09/26/19 08:59	10/16/19 02:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 02:21	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/26/19 08:59	10/16/19 02:21	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/26/19 08:59	10/16/19 02:21	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/26/19 08:59	10/16/19 02:21	1
Thallium	0.000380	J	0.0010	0.00015	mg/L		09/26/19 08:59	10/16/19 02:21	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/26/19 08:59	10/16/19 02:21	1
Iron	<0.020		0.050	0.020	mg/L		09/26/19 08:59	10/16/19 02:21	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 02:21	1
Potassium	<0.16		0.50	0.16	mg/L		09/26/19 08:59	10/16/19 02:21	1
Magnesium	<0.083		0.50	0.083	mg/L		09/26/19 08:59	10/16/19 02:21	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/26/19 08:59	10/16/19 02:21	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

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

Lab Sample ID: MB 180-292738/1-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/26/19 08:59	10/16/19 02:21	1
Sodium	<0.35		0.50	0.35	mg/L		09/26/19 08:59	10/16/19 02:21	1
Strontium	<0.00076		0.0050	0.00076	mg/L		09/26/19 08:59	10/16/19 02:21	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/26/19 08:59	10/16/19 02:21	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/26/19 08:59	10/16/19 02:21	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/26/19 08:59	10/16/19 02:21	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 08:59	10/16/19 02:21	1

Lab Sample ID: MB 180-292738/1-A
Matrix: Water
Analysis Batch: 295148

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	<0.13	^	0.50	0.13	mg/L		09/26/19 08:59	10/16/19 21:15	1

Lab Sample ID: LCS 180-292738/2-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.267		mg/L		107	80 - 120
Aluminum	5.00	4.59		mg/L		92	80 - 120
Arsenic	1.00	0.975		mg/L		97	80 - 120
Beryllium	0.500	0.528		mg/L		106	80 - 120
Boron	1.25	1.22		mg/L		98	80 - 120
Cadmium	0.500	0.540		mg/L		108	80 - 120
Barium	1.00	0.920		mg/L		92	80 - 120
Chromium	0.500	0.504		mg/L		101	80 - 120
Copper	0.500	0.510		mg/L		102	80 - 120
Calcium	25.0	23.6		mg/L		94	80 - 120
Lead	0.500	0.498		mg/L		100	80 - 120
Nickel	0.500	0.502		mg/L		100	80 - 120
Cobalt	0.500	0.499		mg/L		100	80 - 120
Selenium	1.00	0.955		mg/L		95	80 - 120
Thallium	1.00	0.987		mg/L		99	80 - 120
Zinc	0.250	0.247		mg/L		99	80 - 120
Iron	5.00	4.29		mg/L		86	80 - 120
Silver	0.250	0.249		mg/L		100	80 - 120
Potassium	25.0	23.4		mg/L		93	80 - 120
Magnesium	25.0	23.7		mg/L		95	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Molybdenum	0.500	0.513		mg/L		103	80 - 120
Sodium	25.0	25.6		mg/L		103	80 - 120
Strontium	0.500	0.463		mg/L		93	80 - 120
Titanium	0.500	0.488		mg/L		98	80 - 120
Vanadium	0.500	0.475		mg/L		95	80 - 120
Lithium	0.500	0.469		mg/L		94	80 - 120
Tin	1.00	1.02		mg/L		102	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

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

Lab Sample ID: LCS 180-292738/2-A
Matrix: Water
Analysis Batch: 295148

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silicon	1.00	0.897	^	mg/L		90	80 - 120

Lab Sample ID: MB 180-292814/1-A
Matrix: Water
Analysis Batch: 293633

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/26/19 12:54	10/03/19 01:13	1
Aluminum	<0.013		0.030	0.013	mg/L		09/26/19 12:54	10/03/19 01:13	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/26/19 12:54	10/03/19 01:13	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/26/19 12:54	10/03/19 01:13	1
Boron	<0.039		0.080	0.039	mg/L		09/26/19 12:54	10/03/19 01:13	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/26/19 12:54	10/03/19 01:13	1
Barium	<0.0016		0.010	0.0016	mg/L		09/26/19 12:54	10/03/19 01:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 12:54	10/03/19 01:13	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/26/19 12:54	10/03/19 01:13	1
Calcium	<0.13		0.50	0.13	mg/L		09/26/19 12:54	10/03/19 01:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/26/19 12:54	10/03/19 01:13	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/26/19 12:54	10/03/19 01:13	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/26/19 12:54	10/03/19 01:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/26/19 12:54	10/03/19 01:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/26/19 12:54	10/03/19 01:13	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/26/19 12:54	10/03/19 01:13	1
Iron	<0.020		0.050	0.020	mg/L		09/26/19 12:54	10/03/19 01:13	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 12:54	10/03/19 01:13	1
Potassium	<0.16		0.50	0.16	mg/L		09/26/19 12:54	10/03/19 01:13	1
Magnesium	<0.083		0.50	0.083	mg/L		09/26/19 12:54	10/03/19 01:13	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/26/19 12:54	10/03/19 01:13	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/26/19 12:54	10/03/19 01:13	1
Sodium	<0.35		0.50	0.35	mg/L		09/26/19 12:54	10/03/19 01:13	1
Strontium	<0.00076		0.0050	0.00076	mg/L		09/26/19 12:54	10/03/19 01:13	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/26/19 12:54	10/03/19 01:13	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/26/19 12:54	10/03/19 01:13	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/26/19 12:54	10/03/19 01:13	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 12:54	10/03/19 01:13	1
Silicon	<0.13		0.50	0.13	mg/L		09/26/19 12:54	10/03/19 01:13	1

Lab Sample ID: LCS 180-292814/2-A
Matrix: Water
Analysis Batch: 293633

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.248		mg/L		99	80 - 120
Arsenic	1.00	0.973		mg/L		97	80 - 120
Beryllium	0.500	0.509		mg/L		102	80 - 120
Boron	1.25	1.18		mg/L		94	80 - 120
Cadmium	0.500	0.493		mg/L		99	80 - 120
Barium	1.00	0.977		mg/L		98	80 - 120
Chromium	0.500	0.500		mg/L		100	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

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

Lab Sample ID: LCS 180-292814/2-A
Matrix: Water
Analysis Batch: 293633

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.500	0.495		mg/L		99	80 - 120
Lead	0.500	0.506		mg/L		101	80 - 120
Nickel	0.500	0.489		mg/L		98	80 - 120
Cobalt	0.500	0.485		mg/L		97	80 - 120
Selenium	1.00	0.958		mg/L		96	80 - 120
Thallium	1.00	1.02		mg/L		102	80 - 120
Zinc	0.250	0.248		mg/L		99	80 - 120
Silver	0.250	0.249		mg/L		100	80 - 120
Manganese	0.500	0.491		mg/L		98	80 - 120
Molybdenum	0.500	0.504		mg/L		101	80 - 120
Strontium	0.500	0.465		mg/L		93	80 - 120
Titanium	0.500	0.493		mg/L		99	80 - 120
Vanadium	0.500	0.488		mg/L		98	80 - 120
Lithium	0.500	0.503		mg/L		101	80 - 120
Tin	1.00	0.966		mg/L		97	80 - 120
Silicon	1.00	1.02		mg/L		102	80 - 120

Lab Sample ID: LCS 180-292814/2-A
Matrix: Water
Analysis Batch: 293760

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5000	5360		ug/L		107	80 - 120
Calcium	25000	24900		ug/L		100	80 - 120
Iron	5000	5240		ug/L		105	80 - 120
Potassium	25000	26400		ug/L		106	80 - 120
Magnesium	25000	26300		ug/L		105	80 - 120
Sodium	25000	26900		ug/L		107	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-293943/1-A
Matrix: Water
Analysis Batch: 294165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:47	1

Lab Sample ID: LCS 180-293943/2-A
Matrix: Water
Analysis Batch: 294165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00252		mg/L		101	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

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

Lab Sample ID: 180-95981-1 MS
Matrix: Water
Analysis Batch: 294165

Client Sample ID: 1S-GS
Prep Type: Total/NA
Prep Batch: 293943
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.000922		mg/L		92	75 - 125

Lab Sample ID: 180-95981-1 MSD
Matrix: Water
Analysis Batch: 294165

Client Sample ID: 1S-GS
Prep Type: Total/NA
Prep Batch: 293943
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000916		mg/L		92	75 - 125	1	20

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-495418/1-A
Matrix: Water
Analysis Batch: 495523

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.80	J	5.0	1.4	mg/L		10/02/19 10:19	10/02/19 16:08	1

Lab Sample ID: LCS 480-495418/2-A
Matrix: Water
Analysis Batch: 495523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495418
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Oil & Grease	40.0	31.10		mg/L		78	78 - 114

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-495150/1-A
Matrix: Water
Analysis Batch: 495213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.166	J	0.20	0.10	mg/L		10/01/19 06:45	10/01/19 12:51	1

Lab Sample ID: LCS 480-495150/2-A
Matrix: Water
Analysis Batch: 495213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495150
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	1.00	0.997		mg/L		100	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-495570/1-A
Matrix: Water
Analysis Batch: 495816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		10/02/19 19:45	10/03/19 09:02	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 480-495570/2-A
Matrix: Water
Analysis Batch: 495816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495570
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.41		mg/L		96	90 - 110

Lab Sample ID: MB 480-495838/1-A
Matrix: Water
Analysis Batch: 496240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		10/03/19 18:05	10/06/19 09:00	1

Lab Sample ID: LCS 480-495838/2-A
Matrix: Water
Analysis Batch: 496240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495838
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.51		mg/L		100	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-495068/4
Matrix: Water
Analysis Batch: 495068

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.020		0.050	0.020	mg/L			09/30/19 21:58	1

Lab Sample ID: LCS 480-495068/5
Matrix: Water
Analysis Batch: 495068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N	1.50	1.50		mg/L		100	90 - 110

Lab Sample ID: 180-95981-1 MS
Matrix: Water
Analysis Batch: 495068

Client Sample ID: 1S-GS
Prep Type: Total/NA
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N	0.054		1.00	1.01		mg/L		96	90 - 110

Lab Sample ID: 180-95981-4 MS
Matrix: Water
Analysis Batch: 495068

Client Sample ID: 2S-GS
Prep Type: Total/NA
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N	0.038	J	1.00	0.980		mg/L		94	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 180-95981-1 DU
Matrix: Water
Analysis Batch: 495068

Client Sample ID: 1S-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.054		0.0593		mg/L		9	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-496193/6
Matrix: Water
Analysis Batch: 496193

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1

Lab Sample ID: LCS 480-496193/7
Matrix: Water
Analysis Batch: 496193

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	94.4		mg/L		94	90 - 110

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

Lab Sample ID: MB 480-495175/1
Matrix: Water
Analysis Batch: 495175

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	<4.0		10	4.0	mg/L			10/01/19 10:29	1

Lab Sample ID: LCS 480-495175/2
Matrix: Water
Analysis Batch: 495175

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	500	450		mg/L		90	85 - 115

Lab Sample ID: 180-95981-1 DU
Matrix: Water
Analysis Batch: 495175

Client Sample ID: 1S-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	5300	H	5320		mg/L		0.4	10

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 180-292382/2
Matrix: Water
Analysis Batch: 292382

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/24/19 09:54	1

Lab Sample ID: LCS 180-292382/1
Matrix: Water
Analysis Batch: 292382

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	82.3	82.0		mg/L		100	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-495554/1
Matrix: Water
Analysis Batch: 495554

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: 180-95981-1 DU
Matrix: Water
Analysis Batch: 495554

Client Sample ID: 1S-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.3	HF	8.4		SU		0.5	5
Temperature	20.5	HF	20.5		Degrees C		0.2	10

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-495438/27
Matrix: Water
Analysis Batch: 495438

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1

Lab Sample ID: LCS 480-495438/28
Matrix: Water
Analysis Batch: 495438

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.200	0.185		mg/L		92	90 - 110

Method: SM 5310C - Total Organic Carbon

Lab Sample ID: MB 180-293568/6
Matrix: Water
Analysis Batch: 293568

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/02/19 14:56	1

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method: SM 5310C - Total Organic Carbon (Continued)

Lab Sample ID: LCS 180-293568/4
Matrix: Water
Analysis Batch: 293568

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	20.0	19.6		mg/L		98	85 - 115

Lab Sample ID: LCSD 180-293568/5
Matrix: Water
Analysis Batch: 293568

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
Total Organic Carbon - Duplicates	20.0	19.4		mg/L		97	85 - 115	1	20

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

GC VOA

Analysis Batch: 147625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	RSK-175	
180-95981-2	1D-GS	Total/NA	Water	RSK-175	
180-95981-3	2D-GS	Total/NA	Water	RSK-175	
180-95981-4	2S-GS	Total/NA	Water	RSK-175	
MB 200-147625/25	Method Blank	Total/NA	Water	RSK-175	
MB 200-147625/4	Method Blank	Total/NA	Water	RSK-175	
LCS 200-147625/23	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-147625/24	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 147653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-5	DUP-01	Total/NA	Water	RSK-175	
MB 200-147653/4	Method Blank	Total/NA	Water	RSK-175	
LCS 200-147653/2	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-147653/3	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 292051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-1	1S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-2	1D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-2	1D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-3	2D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-3	2D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-4	2S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-4	2S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-5	DUP-01	Total/NA	Water	EPA 300.0 R2.1	
180-95981-5	DUP-01	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292051/35	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292051/34	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Analysis Batch: 292462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total Recoverable	Water	SM 2340B	
180-95981-2	1D-GS	Total Recoverable	Water	SM 2340B	
180-95981-3	2D-GS	Total Recoverable	Water	SM 2340B	
180-95981-4	2S-GS	Total Recoverable	Water	SM 2340B	
180-95981-5	DUP-01	Total Recoverable	Water	SM 2340B	

Prep Batch: 292738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total Recoverable	Water	3005A	
180-95981-2	1D-GS	Total Recoverable	Water	3005A	
180-95981-3	2D-GS	Total Recoverable	Water	3005A	
180-95981-4	2S-GS	Total Recoverable	Water	3005A	
MB 180-292738/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292738/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Metals

Prep Batch: 292814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-5	DUP-01	Total Recoverable	Water	3005A	
MB 180-292814/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292814/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 293633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-5	DUP-01	Total Recoverable	Water	EPA 6020	292814
MB 180-292814/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292814
LCS 180-292814/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292814

Analysis Batch: 293760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-292814/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292814

Prep Batch: 293943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	7470A	
180-95981-2	1D-GS	Total/NA	Water	7470A	
180-95981-3	2D-GS	Total/NA	Water	7470A	
180-95981-4	2S-GS	Total/NA	Water	7470A	
180-95981-5	DUP-01	Total/NA	Water	7470A	
MB 180-293943/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293943/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-95981-1 MS	1S-GS	Total/NA	Water	7470A	
180-95981-1 MSD	1S-GS	Total/NA	Water	7470A	

Analysis Batch: 294165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	EPA 7470A	293943
180-95981-2	1D-GS	Total/NA	Water	EPA 7470A	293943
180-95981-3	2D-GS	Total/NA	Water	EPA 7470A	293943
180-95981-4	2S-GS	Total/NA	Water	EPA 7470A	293943
180-95981-5	DUP-01	Total/NA	Water	EPA 7470A	293943
MB 180-293943/1-A	Method Blank	Total/NA	Water	EPA 7470A	293943
LCS 180-293943/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293943
180-95981-1 MS	1S-GS	Total/NA	Water	EPA 7470A	293943
180-95981-1 MSD	1S-GS	Total/NA	Water	EPA 7470A	293943

Analysis Batch: 295123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total Recoverable	Water	EPA 6020	292738
180-95981-2	1D-GS	Total Recoverable	Water	EPA 6020	292738
180-95981-3	2D-GS	Total Recoverable	Water	EPA 6020	292738
180-95981-4	2S-GS	Total Recoverable	Water	EPA 6020	292738
MB 180-292738/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292738
LCS 180-292738/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292738

Analysis Batch: 295148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total Recoverable	Water	EPA 6020	292738
180-95981-2	1D-GS	Total Recoverable	Water	EPA 6020	292738

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Metals (Continued)

Analysis Batch: 295148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-3	2D-GS	Total Recoverable	Water	EPA 6020	292738
180-95981-4	2S-GS	Total Recoverable	Water	EPA 6020	292738
MB 180-292738/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292738
LCS 180-292738/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292738

General Chemistry

Analysis Batch: 292382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 2540D	
180-95981-2	1D-GS	Total/NA	Water	SM 2540D	
180-95981-3	2D-GS	Total/NA	Water	SM 2540D	
180-95981-4	2S-GS	Total/NA	Water	SM 2540D	
180-95981-5	DUP-01	Total/NA	Water	SM 2540D	
MB 180-292382/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 180-292382/1	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 293568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 5310C	
180-95981-2	1D-GS	Total/NA	Water	SM 5310C	
180-95981-3	2D-GS	Total/NA	Water	SM 5310C	
180-95981-4	2S-GS	Total/NA	Water	SM 5310C	
180-95981-5	DUP-01	Total/NA	Water	SM 5310C	
MB 180-293568/6	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-293568/4	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-293568/5	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 495068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	353.2	
180-95981-2	1D-GS	Total/NA	Water	353.2	
180-95981-3	2D-GS	Total/NA	Water	353.2	
180-95981-4	2S-GS	Total/NA	Water	353.2	
180-95981-5	DUP-01	Total/NA	Water	353.2	
MB 480-495068/4	Method Blank	Total/NA	Water	353.2	
LCS 480-495068/5	Lab Control Sample	Total/NA	Water	353.2	
180-95981-1 MS	1S-GS	Total/NA	Water	353.2	
180-95981-4 MS	2S-GS	Total/NA	Water	353.2	
180-95981-1 DU	1S-GS	Total/NA	Water	353.2	

Prep Batch: 495150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	Distill/Ammonia	
180-95981-2	1D-GS	Total/NA	Water	Distill/Ammonia	
180-95981-3	2D-GS	Total/NA	Water	Distill/Ammonia	
180-95981-4	2S-GS	Total/NA	Water	Distill/Ammonia	
180-95981-5	DUP-01	Total/NA	Water	Distill/Ammonia	
MB 480-495150/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-495150/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

General Chemistry

Analysis Batch: 495175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 2540C	
180-95981-2	1D-GS	Total/NA	Water	SM 2540C	
180-95981-3	2D-GS	Total/NA	Water	SM 2540C	
180-95981-4	2S-GS	Total/NA	Water	SM 2540C	
180-95981-5	DUP-01	Total/NA	Water	SM 2540C	
MB 480-495175/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-495175/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-95981-1 DU	1S-GS	Total/NA	Water	SM 2540C	

Analysis Batch: 495213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	350.1	495150
MB 480-495150/1-A	Method Blank	Total/NA	Water	350.1	495150
LCS 480-495150/2-A	Lab Control Sample	Total/NA	Water	350.1	495150

Analysis Batch: 495217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-2	1D-GS	Total/NA	Water	350.1	495150
180-95981-3	2D-GS	Total/NA	Water	350.1	495150
180-95981-4	2S-GS	Total/NA	Water	350.1	495150
180-95981-5	DUP-01	Total/NA	Water	350.1	495150

Prep Batch: 495418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	1664B	
180-95981-2	1D-GS	Total/NA	Water	1664B	
180-95981-3	2D-GS	Total/NA	Water	1664B	
180-95981-4	2S-GS	Total/NA	Water	1664B	
180-95981-5	DUP-01	Total/NA	Water	1664B	
MB 480-495418/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-495418/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 495438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 4500 P E	
180-95981-2	1D-GS	Total/NA	Water	SM 4500 P E	
180-95981-3	2D-GS	Total/NA	Water	SM 4500 P E	
180-95981-4	2S-GS	Total/NA	Water	SM 4500 P E	
180-95981-5	DUP-01	Total/NA	Water	SM 4500 P E	
MB 480-495438/27	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-495438/28	Lab Control Sample	Total/NA	Water	SM 4500 P E	

Analysis Batch: 495523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	1664B	495418
180-95981-2	1D-GS	Total/NA	Water	1664B	495418
180-95981-3	2D-GS	Total/NA	Water	1664B	495418
180-95981-4	2S-GS	Total/NA	Water	1664B	495418
180-95981-5	DUP-01	Total/NA	Water	1664B	495418
MB 480-495418/1-A	Method Blank	Total/NA	Water	1664B	495418
LCS 480-495418/2-A	Lab Control Sample	Total/NA	Water	1664B	495418

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

General Chemistry

Analysis Batch: 495554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 4500 H+ B	
180-95981-2	1D-GS	Total/NA	Water	SM 4500 H+ B	
180-95981-3	2D-GS	Total/NA	Water	SM 4500 H+ B	
180-95981-4	2S-GS	Total/NA	Water	SM 4500 H+ B	
180-95981-5	DUP-01	Total/NA	Water	SM 4500 H+ B	
LCS 480-495554/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
180-95981-1 DU	1S-GS	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 495570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	351.2	
180-95981-2	1D-GS	Total/NA	Water	351.2	
180-95981-3	2D-GS	Total/NA	Water	351.2	
180-95981-5	DUP-01	Total/NA	Water	351.2	
MB 480-495570/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-495570/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 495816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	351.2	495570
180-95981-2	1D-GS	Total/NA	Water	351.2	495570
180-95981-3	2D-GS	Total/NA	Water	351.2	495570
180-95981-5	DUP-01	Total/NA	Water	351.2	495570
MB 480-495570/1-A	Method Blank	Total/NA	Water	351.2	495570
LCS 480-495570/2-A	Lab Control Sample	Total/NA	Water	351.2	495570

Prep Batch: 495838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-4	2S-GS	Total/NA	Water	351.2	
MB 480-495838/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-495838/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 496193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 2320B	
180-95981-2	1D-GS	Total/NA	Water	SM 2320B	
180-95981-3	2D-GS	Total/NA	Water	SM 2320B	
180-95981-4	2S-GS	Total/NA	Water	SM 2320B	
180-95981-5	DUP-01	Total/NA	Water	SM 2320B	
MB 480-496193/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-496193/7	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 496240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-4	2S-GS	Total/NA	Water	351.2	495838
MB 480-495838/1-A	Method Blank	Total/NA	Water	351.2	495838
LCS 480-495838/2-A	Lab Control Sample	Total/NA	Water	351.2	495838

Analysis Batch: 499249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 4500 CO2 B	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

General Chemistry (Continued)

Analysis Batch: 499249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-2	1D-GS	Total/NA	Water	SM 4500 CO2 B	
180-95981-3	2D-GS	Total/NA	Water	SM 4500 CO2 B	
180-95981-4	2S-GS	Total/NA	Water	SM 4500 CO2 B	
180-95981-5	DUP-01	Total/NA	Water	SM 4500 CO2 B	

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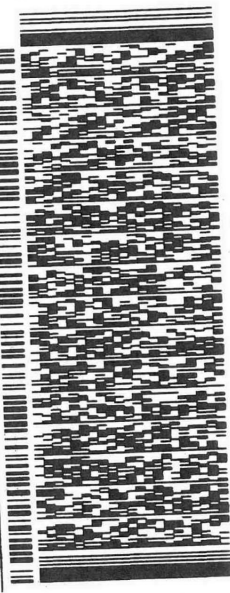
ORIGIN ID: BIXA (850) 336-0192
RICK HAYDORFOR
RDH ENVIRONMENTAL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 19SEP19
ACTWT: 66.70 LB
CAD: 6993600/SSEFE2021
DIMS: 24x19x13 IN
BILL THIRD PARTY

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (000) 000-0000
DEPT: 0201



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FRI - 20 SEP 10:30A
PRIORITY OVERNIGHT

2 of 2
MPS# 7899 3070 6156
0263
Mstr# 7899 3070 6145
0201

XH AGCA
15238
PA-US PIT

Uncorrected temp
Thermometer ID
CF 0 Initials TB
PT-WI-SR-001 effective 11/8/18



180-95981 Waybill

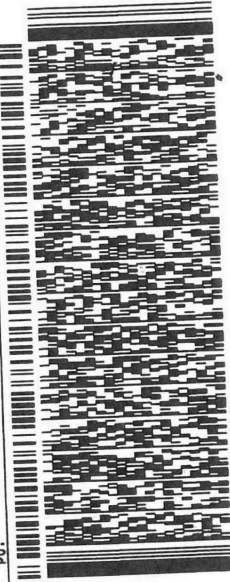
ORIGIN ID: BIXA (850) 336-0192
RICK HAYDORFOR
RDH ENVIRONMENTAL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

P19
ACTWT: 66.70 LB
CAD: 6993600/SSEFE2021
DIMS: 24x19x13 IN
BILL THIRD PARTY

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (000) 000-0000
DEPT: 0201



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FRI - 20 SEP 10:30A
PRIORITY OVERNIGHT

1 of 2
TRK# 7899 3070 6145
0201
MASTER

XH AGCA
15238
PA-US PIT

Uncorrected temp
Thermometer ID
CF 0 Initials TB
PT-WI-SR-001 effective 11/8/18

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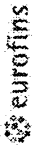
Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:						
Client Contact:		Bortol, Veronica		180-374217.1	180-374217.1						
Shipping/Receiving		E-Mail:	State of Origin:	Page 1 of 1	Page 1 of 1						
Company:		veronica.bortol@testamericainc.com	Georgia	Job #:	180-95981-1						
TestAmerica Laboratories, Inc.		Accreditations Required (See note):									
Address:		Due Date Requested:									
13715 Rider Trail North,		10/2/2019									
City:		TAT Requested (days):									
E-arth City											
State, Zip:		PO #:									
MO, 63045		WO #:									
Phone:		Project #:									
314-298-8566(Tel) 314-298-8757(Fax)		18020186									
Email:		SSOW#:									
Project Name:		CCR - Plant Watson									
Site:											
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315 Ra226/PrecSep_21 Radium 226	9320 Ra228/PrecSep_0 Radium 228	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
1S-GS (180-95981-1)	9/19/19	11:02 Eastern	Water	Water	X	X	X	X	X	2	
1D-GS (180-95981-2)	9/19/19	11:55 Eastern	Water	Water	X	X	X	X	X	2	
2D-GS (180-95981-3)	9/19/19	14:40 Eastern	Water	Water	X	X	X	X	X	2	
2S-GS (180-95981-4)	9/19/19	14:29 Eastern	Water	Water	X	X	X	X	X	2	
DUP-01 (180-95981-5)	9/19/19	07:00 Eastern	Water	Water	X	X	X	X	X	2	
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>											
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify)											
Primary Deliverable Rank: 2											
Empty Kit Relinquished by:											
Relinquished by: [Signature]											
Relinquished by: [Signature]											
Relinquished by: [Signature]											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Custody Seal No.:											
Cooler Temperature(s) °C and Other Remarks:											
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p>											
<p>Method of Shipment:</p> <p>Received by: [Signature] Date/Time: 9/23/19 17:00:00 Company: [Signature]</p> <p>Received by: [Signature] Date/Time: 9/24/19 09:00:00 Company: TA STC</p> <p>Received by: [Signature] Date/Time: _____ Company: _____</p>											



Chain of Custody Record



EUROFINN
TESTAMERICA

Client Information Client Contact: Ms. Lauren Petty Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-5417(Tel) Email: lpetty@southernco.com Project Name: CCR - Plant Watson Special AP Site:		Lab Pmt: Veronica Bortot, Veronica Bortot E-Mail: veronica.bortot@testamericainc.com Phone: 850-336-0192		Carrier Tracking No(s): COC No: 180-54585-11376.1 Page: Page 1 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 18020186 SSOW#:		Analysis Requested 9315 Ra226, 9320 Ra228 2320B, 2540C_Calcd, SM4500_H+ 6020, 7470A 350.1, 351.2, 353.2_Pres, 4500_P_E 300_ORGMS - ortho Phos Bromide, Cl, SO4, F 5310C - TOC 2540D - TSS RSK_175_CO2_CarbonDioxide 1664B - Oil and Grease			
Sample Identification IS-GS LD-GS 2D-GS 2S-GS Dwp-01		Sample Date: 9-19-19 9-19-19 9-19-19 9-19-19 9-19-19	Sample Time: 1102 1155 1440 1729 0200	Sample Type (G-comp, G-grab) G G G G G	Matrix (Water, Solid, Other) 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 J - Ice J - DI Water K - EDTA L - EDA Other:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SZO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Special Instructions/Note: 180-95981 Chain of Custody		Barcode: 180-95981 Chain of Custody			
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: [Signature] Date/Time: 9-19-19 1720 Company: SCS		Relinquished by: [Signature] Date/Time: 9-20-19 845 Company: [Signature]			
Relinquished by: [Signature] Date/Time:		Relinquished by: [Signature] Date/Time:			
Relinquished by: [Signature] Date/Time:		Relinquished by: [Signature] Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:			



ORIGIN ID:AGCA (412) 963-7058
EUROFINS TESTAMERICA PITTSBURGH
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE

SHIP DATE: 20SEP19
ACTWGT: 45.00 LB MAN
CAD: 741733/CAFE3211

PITTSBURGH, PA 152381330
UNITED STATES US

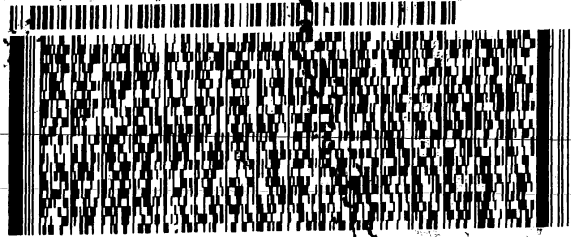
BILL SENDER

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 860-1990
PO: YES

REF: 8180-54723

DEPT: SAMPLE/RECEIVING



FedEx
Express



J181118060501 BY

2 of 3

MPS# 0263 4818 7135 1101

Mstr# 4818 7135 1097

XO BTVA

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

05403

VT-US BTV



ORIGIN ID:AGCA (412) 963-7058
EUROFINS TESTAMERICA PITTSBURGH
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE

SHIP DATE: 20SEP19
ACTWGT: 45.00 LB MAN
CAD: 741733/CAFE3211

PITTSBURGH, PA 152381330
UNITED STATES US

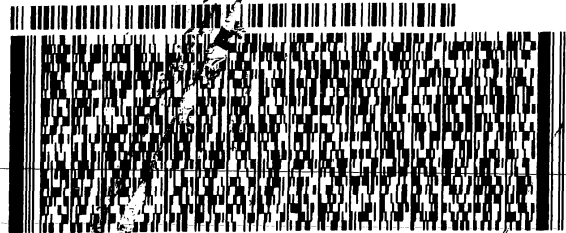
BILL SENDER

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 860-1990
PO: YES

REF: 8180-54723

DEPT: SAMPLE/RECEIVING



FedEx
Express



3 of 3

MPS# 0263 4818 7135 1112

Mstr# 4818 7135 1097

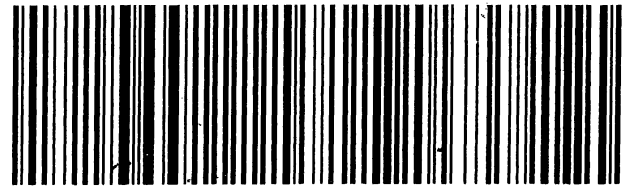
0201

XO BTVA

SATURDAY 12:00P
PRIORITY OVERNIGHT

05403

VT-US BTV



SHIP DATE: 20SEP19
ACTWGT: 45.00 LB MAN
CAD: 741733/CAFE3211

BILL SENDER

ORIGIN ID:AGCA (412) 963-7058
EUROFINS TESTAMERICA PITTSBURGH
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE

PITTSBURGH, PA 152381330
UNITED STATES US

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 860-1990
PO: YES

REF: 8180-54723

DEPT: SAMPLE/RECEIVING



FedEx
Express



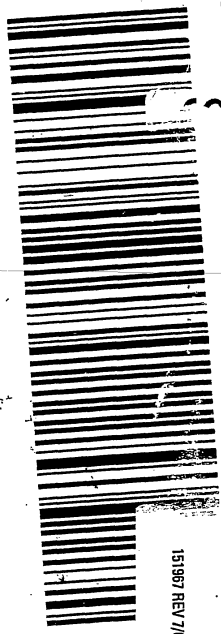
SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 4818 7135 1097

MASTER

XO BTVA

05403
VT-US BTV



15197 REV/7/10

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468



Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:									
Client Contact:		Bortol, Veronica		Bortol, Veronica		180-374476.1		180-374476.1									
Shipping/Receiving		E-Mail:		veronica.bortol@testamericainc.com		State of Origin:		Page:									
Company:		TestAmerica Laboratories, Inc.		Accreditations Required (See note):		180-95981-1		Page 1 of 1									
Address:		10 Hazelwood Drive,		Due Date Requested:		10/2/2019		Job #:									
City:		Amherst		TAT Requested (days):		3		180-95981-1									
State, Zip:		NY, 14228-2298		PO #:				Preservation Codes:									
Phone:		716-691-2600(Tel) 716-691-7991(Fax)		WO #:				A - HCL 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)									
Email:				Project #:		18020186		Other:									
Project Name:		CCR - Plant Watson		SSOW #:													
Site:																	
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, AS=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_H+	2540C_Calcd	4500_P_E (MOD) Local Method	353_2_Pres	1664B/1664_P_W (MOD) Local Method	350_1/Disstill_Ammonia (MOD) Local Method	SM4500_CO2_B	351_2/351_2_Prep	Total Number of Containers	Special Instructions/Note:
1S-GS (180-95981-1)		9/19/19	11:02 Eastern		Water	X	X	X	X	X	X	X	X	X	4		
1D-GS (180-95981-2)		9/19/19	11:55 Eastern		Water	X	X	X	X	X	X	X	X	X	4		
2D-GS (180-95981-3)		9/19/19	14:40 Eastern		Water	X	X	X	X	X	X	X	X	X	4		
2S-GS (180-95981-4)		9/19/19	14:29 Eastern		Water	X	X	X	X	X	X	X	X	X	4		
DUP-01 (180-95981-5)		9/19/19	07:00 Eastern		Water	X	X	X	X	X	X	X	X	X	4		
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>																	
<p>Possible Hazard Identification</p> <p>Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p> <p>Special Instructions/QC Requirements:</p>																	
<p>Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____</p> <p>Relinquished by: _____ Date/Time: 9/26/19 17:00 Company: <i>Unknowl Kob</i> Received by: _____ Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: 313, 2.15 # ICE</p>																	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95981-1

Login Number: 95981

List Number: 1

Creator: Say, Thomas C

List Source: Eurofins TestAmerica, Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95981-1

Login Number: 95981
List Number: 4
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo
List Creation: 09/30/19 06:50 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	3.3, 2.5 ir gun #1 ice
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95981-1

Login Number: 95981
List Number: 2
Creator: Hall, Samuel C

List Source: Eurofins TestAmerica, Burlington
List Creation: 09/21/19 01:34 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	2.1°C, 3.9°C, 3.6°C
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?	N/A	Received project as a subcontract.
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.	N/A	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-95981-2
Laboratory Sample Delivery Group: 1
Client Project/Site: CCR - Plant Watson

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
10/31/2019 9:45:27 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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.

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
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Sample Summary	8
Method Summary	9
Lab Chronicle	10
Client Sample Results	12
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QC Association Summary	17
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Receipt Checklists	20

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Job ID: 180-95981-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-95981-2

Comments

No additional comments.

Receipt

The samples were received on 9/20/2019 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 1.7° C.

Receipt Exceptions

The containers provided for the following samples did not match the information listed on the Chain-of-Custody (COC): 2S-GS (180-95981-4) and DUP-01 (180-95981-5). No containers were provided for Oil and Grease, RAD, and Metals analysis. Analysis was cancelled for these tests until further instruction from the PM.

Information from PM on 10/9/2019:

Client couldn't fill all the containers before fed ex location closed; He sent what he had - he did have short holds collected hence the need to send that day; He then went back to the site to fill the sample containers he didn't fill; He called me in the morning to let me know that we would be missing some containers ; sample volumes for these missing parameters were sent with the next shipment.

RAD

Methods 903.0, 9315: Radium-226 prep batch 160-444126-

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4), DUP-01 (180-95981-5), (LCS 160-444126/1-A), (LCSD 160-444126/2-A) and (MB 160-444126/23-A)

Methods 904.0, 9320: Ra-228 Prep Batch 160-444140

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4), DUP-01 (180-95981-5), (LCS 160-444140/1-A), (LCSD 160-444140/2-A) and (MB 160-444140/23-A)

Method PrecSep_0: Radium 228 Prep Batch 160-444140:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4) and DUP-01 (180-95981-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-444126:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4) and DUP-01 (180-95981-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Job ID: 180-95981-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

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

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 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.
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)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
 SDG: 1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19
Iowa	State	373	09-17-20
Iowa	State Program	373	12-01-20
Kansas	NELAP	E-10236	10-31-19 *
Kentucky (DW)	State	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
Washington	State Program	C592	08-30-20
West Virginia DEP	State	381	10-31-19
West Virginia DEP	State Program	381	10-31-19 *

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

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95981-1	1S-GS	Water	09/19/19 11:02	09/20/19 08:45	
180-95981-2	1D-GS	Water	09/19/19 11:55	09/20/19 08:45	
180-95981-3	2D-GS	Water	09/19/19 14:40	09/20/19 08:45	
180-95981-4	2S-GS	Water	09/19/19 14:29	09/20/19 08:45	
180-95981-5	DUP-01	Water	09/19/19 07:00	09/20/19 08:45	

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Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 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
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

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

Laboratory References:

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



Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Client Sample ID: 1S-GS

Date Collected: 09/19/19 11:02

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.70 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 12:46	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.70 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:25	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 1D-GS

Date Collected: 09/19/19 11:55

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.56 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 12:46	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.56 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:25	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 2D-GS

Date Collected: 09/19/19 14:40

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.98 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 12:46	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.98 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:25	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 2S-GS

Date Collected: 09/19/19 14:29

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.50 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 12:46	KLS	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Client Sample ID: 2S-GS

Date Collected: 09/19/19 14:29

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.50 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:25	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Date Collected: 09/19/19 07:00

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.87 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 12:46	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.87 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445782	10/11/19 08:27	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

EJQ = Erin Quinn

Batch Type: Analysis

AJD = Audra DeMariano

KLS = Kody Saulters

SMP = Siobhan Perry

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Client Sample ID: 1S-GS

Date Collected: 09/19/19 11:02

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-1

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	0.347		0.132	0.136	1.00	0.154	pCi/L	09/25/19 11:11	10/18/19 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					09/25/19 11:11	10/18/19 12:46	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		0.237	0.240	1.00	0.354	pCi/L	09/25/19 12:09	10/11/19 08:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					09/25/19 12:09	10/11/19 08:25	1
Y Carrier	92.3		40 - 110					09/25/19 12:09	10/11/19 08:25	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	0.787		0.271	0.276	5.00	0.354	pCi/L		10/24/19 08:44	1

Client Sample ID: 1D-GS

Date Collected: 09/19/19 11:55

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-2

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	2.66		0.297	0.381	1.00	0.134	pCi/L	09/25/19 11:11	10/18/19 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					09/25/19 11:11	10/18/19 12:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.71		0.321	0.357	1.00	0.327	pCi/L	09/25/19 12:09	10/11/19 08:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					09/25/19 12:09	10/11/19 08:25	1
Y Carrier	88.6		40 - 110					09/25/19 12:09	10/11/19 08:25	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Client Sample ID: 1D-GS

Lab Sample ID: 180-95981-2

Date Collected: 09/19/19 11:55

Matrix: Water

Date Received: 09/20/19 08:45

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	4.37		0.437	0.522	5.00	0.327	pCi/L		10/24/19 08:44	1

Client Sample ID: 2D-GS

Lab Sample ID: 180-95981-3

Date Collected: 09/19/19 14:40

Matrix: Water

Date Received: 09/20/19 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.48		0.290	0.366	1.00	0.148	pCi/L	09/25/19 11:11	10/18/19 12:46	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	91.0		40 - 110					09/25/19 11:11	10/18/19 12:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.42		0.416	0.521	1.00	0.342	pCi/L	09/25/19 12:09	10/11/19 08:25	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	91.0		40 - 110					09/25/19 12:09	10/11/19 08:25	1
Y Carrier	87.9		40 - 110					09/25/19 12:09	10/11/19 08:25	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	5.90		0.507	0.637	5.00	0.342	pCi/L		10/24/19 08:44	1

Client Sample ID: 2S-GS

Lab Sample ID: 180-95981-4

Date Collected: 09/19/19 14:29

Matrix: Water

Date Received: 09/20/19 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.293		0.127	0.129	1.00	0.158	pCi/L	09/25/19 11:11	10/18/19 12:46	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	91.2		40 - 110					09/25/19 11:11	10/18/19 12:46	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Client Sample ID: 2S-GS

Lab Sample ID: 180-95981-4

Date Collected: 09/19/19 14:29

Matrix: Water

Date Received: 09/20/19 08:45

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.667		0.289	0.296	1.00	0.420	pCi/L	09/25/19 12:09	10/11/19 08:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					09/25/19 12:09	10/11/19 08:25	1
Y Carrier	84.5		40 - 110					09/25/19 12:09	10/11/19 08:25	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	0.960		0.316	0.323	5.00	0.420	pCi/L		10/24/19 08:44	1

Client Sample ID: DUP-01

Lab Sample ID: 180-95981-5

Date Collected: 09/19/19 07:00

Matrix: Water

Date Received: 09/20/19 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.374		0.133	0.137	1.00	0.148	pCi/L	09/25/19 11:11	10/18/19 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					09/25/19 11:11	10/18/19 12:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.712		0.309	0.316	1.00	0.453	pCi/L	09/25/19 12:09	10/11/19 08:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					09/25/19 12:09	10/11/19 08:27	1
Y Carrier	86.4		40 - 110					09/25/19 12:09	10/11/19 08:27	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	1.09		0.336	0.344	5.00	0.453	pCi/L		10/24/19 08:44	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-444126/23-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444126

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02198	U	0.0850	0.0850	1.00	0.157	pCi/L	09/25/19 11:11	10/18/19 12:48	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	90.1		40 - 110	09/25/19 11:11	10/18/19 12:48	1				

Lab Sample ID: LCS 160-444126/1-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444126

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.118		0.984	1.00	0.109	pCi/L	80	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed				
Ba Carrier	90.4		40 - 110	09/25/19 11:11	10/18/19 12:48	1			

Lab Sample ID: LCSD 160-444126/2-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444126

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	11.4	10.58		1.12	1.00	0.140	pCi/L	93	75 - 125	0.70	1
Carrier	LCSD	LCSD	Limits			Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed						
Ba Carrier	88.4		40 - 110	09/25/19 12:09	10/11/19 08:28	1					

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-444140/23-A
Matrix: Water
Analysis Batch: 445782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444140

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2824	U	0.246	0.247	1.00	0.394	pCi/L	09/25/19 12:09	10/11/19 08:28	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	90.1		40 - 110	09/25/19 12:09	10/11/19 08:28	1				
Y Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Y Carrier	%Yield	Qualifier		Prepared	Analyzed					
Y Carrier	86.7		40 - 110	09/25/19 12:09	10/11/19 08:28	1				

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
 SDG: 1

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

Lab Sample ID: LCS 160-444140/1-A
Matrix: Water
Analysis Batch: 445862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444140

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.50	10.42		1.18	1.00	0.410	pCi/L	110	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.4		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: LCSD 160-444140/2-A
Matrix: Water
Analysis Batch: 445862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444140

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	9.50	9.714		1.12	1.00	0.393	pCi/L	102	75 - 125	0.31	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	88.4		40 - 110
Y Carrier	87.9		40 - 110

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Rad

Prep Batch: 444126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	PrecSep-21	
180-95981-2	1D-GS	Total/NA	Water	PrecSep-21	
180-95981-3	2D-GS	Total/NA	Water	PrecSep-21	
180-95981-4	2S-GS	Total/NA	Water	PrecSep-21	
180-95981-5	DUP-01	Total/NA	Water	PrecSep-21	
MB 160-444126/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-444126/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-444126/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 444140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	PrecSep_0	
180-95981-2	1D-GS	Total/NA	Water	PrecSep_0	
180-95981-3	2D-GS	Total/NA	Water	PrecSep_0	
180-95981-4	2S-GS	Total/NA	Water	PrecSep_0	
180-95981-5	DUP-01	Total/NA	Water	PrecSep_0	
MB 160-444140/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-444140/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-444140/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Do Not Lift Using This Tag

Recipient's Name Please print.

Phone Number

Part # 15629-56711/904/05R2 12/19

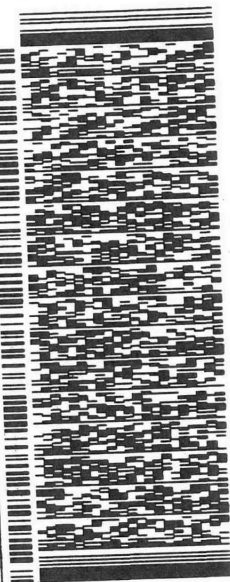
ORIGIN ID: BIXA (850) 336-0192
RICK HAYDORFOR
RDH ENVIRONMENTAL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 19SEP19
ACTWT: 66.70 LB
CAD: 6993600/SSEFE2021
DIMS: 24x19x13 IN
BILL THIRD PARTY

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (000) 000-0000
DEPT: 0201



FRI - 20 SEP 10:30A
PRIORITY OVERNIGHT

2 of 2
MPS# 7899 3070 6156
Mstr# 7899 3070 6145

XH AGCA 15238
PA-US PIT

Uncorrected temp 12
Thermometer ID 10
CF 0 Initials TS
PT-WI-SR-001 effective 11/8/18



180-95981 Waybill

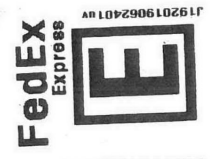
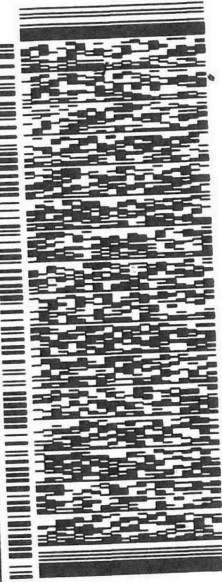
ORIGIN ID: BIXA (850) 336-0192
RICK HAYDORFOR
RDH ENVIRONMENTAL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

P19
ACTWT: 66.70 LB
CAD: 6993600/SSEFE2021
DIMS: 24x19x13 IN
BILL THIRD PARTY

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (000) 000-0000
DEPT: 0201



FRI - 20 SEP 10:30A
PRIORITY OVERNIGHT

1 of 2
TRK# 7899 3070 6145
MASTER

XH AGCA 15238
PA-US PIT

Uncorrected temp 12
Thermometer ID 10
CF 0 Initials TS
PT-WI-SR-001 effective 11/8/18

Do Not Lift Using This Tag

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95981-2

SDG Number: 1

Login Number: 95981

List Number: 1

Creator: Say, Thomas C

List Source: Eurofins TestAmerica, Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95981-2

SDG Number: 1

Login Number: 95981

List Number: 3

Creator: Harris, Lorin C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 09/24/19 05:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
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.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-96046-1
Client Project/Site: CCR - Plant Watson

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
10/24/2019 4:44:39 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

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results through
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Visit us at:
www.testamericainc.com

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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Job ID: 180-96046-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-96046-1

Comments

No additional comments.

Receipt

The samples were received on 9/21/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.3° C, 1.6° C, 1.6° C, 3.4° C and 3.4° C.

GC VOA

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

GC Semi VOA

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

Metals

Methods 6020, 6020A: The following sample was diluted due to the nature of the sample matrix: 4D-GS (180-96046-1). Elevated reporting limits (RLs) are provided.

Methods 6020, 6020A, 6020B: The ICSAB for batch 180-295148 was outside the acceptance limits for element: silicon. Elevated concentration of silicon within the stock reagent is suspected.

Method 6020: The low level continuing calibration verification (CCVL) associated with batch 180-295148 recovered above the upper control limit for sodium. The samples associated with this CCVL were 10x the RL for the affected analytes; therefore, the data have been reported.

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

General Chemistry

Method SM 5310C: The RPD between the duplicate analyses was >10%. The difference between the results was less than the reporting limit; therefore the results are reported with this NCM.

4D-GS (180-96046-1)

Method SM 5310C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 180-294515. LCS/LCSD analyzed.

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), EB-01 (180-96046-6) and (180-96046-F-3 DU). The reporting limits (RLs) have been adjusted proportionately.

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: DUP-02 (180-96046-8). The reporting limits (RLs) have been adjusted proportionately.

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8).

Method SM 2540C: Reanalysis of the following samples were performed outside of the analytical holding time due to confirmation of over-residue; both results are reported : 4D-GS (180-96046-1) and 6D-GS (180-96046-5).

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 4D-GS (180-96046-1) and 6D-GS (180-96046-5). The reporting limits (RLs) have been adjusted proportionately.

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Job ID: 180-96046-1 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

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

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
California	State	2931	04-01-20
Connecticut	State	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	03-31-20
Georgia	State Program	10026 (NY)	03-31-20
Georgia (DW)	State	956	03-31-20
Iowa	State	374	02-28-21
Kansas	NELAP	E-10187	01-31-20
Kentucky (DW)	State	90029	12-31-20
Kentucky (UST)	State	30	03-31-20
Kentucky (UST)	State Program	30	03-31-20
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-05-20
Maine	State Program	NY00044	12-04-20
Maryland	State	294	03-31-20
Massachusetts	State	M-NY044	06-30-20
Massachusetts	State Program	M-NY044	06-30-20
Michigan	State	9937	03-31-20
Minnesota	NELAP	1524384	12-31-19
New Hampshire	NELAP	2337	11-17-19 *
New Hampshire	NELAP	2337	11-17-19
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-01-20
North Dakota	State	R-176	03-31-20
Oklahoma	State	9421	09-01-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Rhode Island	State	LAO00328	12-30-20
Tennessee	State	02970	03-31-20
Texas	NELAP	T104704412-18-10	08-01-20
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Virginia	NELAP	460185	09-14-20
Washington	State	C784	02-10-20
Wisconsin	State	998310390	08-31-20

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

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-20
Connecticut	State	PH-0751	09-30-19 *
Connecticut	State Program	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-19
New Hampshire	NELAP	2006	12-18-19
New Hampshire	NELAP	2006	10-18-19
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	03-31-20
Pennsylvania	NELAP	68-00489	04-30-20
Rhode Island	State	LAO00298	12-30-19
Rhode Island	State Program	LAO00298	12-30-19
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-19
Virginia	NELAP	460209	12-14-19

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

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-96046-1	4D-GS	Water	09/20/19 08:55	09/21/19 09:30	
180-96046-2	4A-GS	Water	09/20/19 11:05	09/21/19 09:30	
180-96046-3	3S-GS	Water	09/20/19 14:20	09/21/19 09:30	
180-96046-4	4B-GS	Water	09/20/19 10:19	09/21/19 09:30	
180-96046-5	6D-GS	Water	09/20/19 14:25	09/21/19 09:30	
180-96046-6	EB-01	Water	09/20/19 07:58	09/21/19 09:30	
180-96046-7	FB-01	Water	09/20/19 08:35	09/21/19 09:30	
180-96046-8	DUP-02	Water	09/20/19 12:00	09/21/19 09:30	



Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL BUR
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL PIT
1664B	HEM and SGT-HEM	1664B	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PIT
SM 4500 CO2 B	Free Carbon Dioxide	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF
SM 5310C	Total Organic Carbon	SM	TAL PIT
1664B	HEM and SGT-HEM (Aqueous)	1664B	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
7470A	Preparation, Mercury	SW846	TAL PIT
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

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

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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 BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4D-GS

Lab Sample ID: 180-96046-1

Date Collected: 09/20/19 08:55

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 15:46	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		50			292188	09/21/19 15:00	JBF	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		500			292188	09/21/19 15:15	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			295148	10/16/19 20:42	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:04	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:07	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			985 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		5	5 mL	5 mL	494916	09/30/19 09:44	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		2			495223	10/01/19 13:03	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:29	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:08	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	494938	09/30/19 11:46	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	500 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:39	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 11:06	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4A-GS

Lab Sample ID: 180-96046-2

Date Collected: 09/20/19 11:05

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 15:55	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		10			292188	09/21/19 15:30	JBF	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		100			292188	09/21/19 15:45	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 20:45	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:09	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:08	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			966 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		2	5 mL	5 mL	494916	09/30/19 09:45	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 10:02	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:31	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:24	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	25 mL	100 mL	493984	09/25/19 09:57	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:45	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 11:21	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 3S-GS

Lab Sample ID: 180-96046-3

Date Collected: 09/20/19 14:20

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 16:04	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		10			292188	09/21/19 16:30	JBF	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		100			292188	09/21/19 16:44	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 20:48	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:13	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:09	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			961 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	494916	09/30/19 09:28	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 09:53	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:33	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:28	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	493984	09/25/19 09:57	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:48	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 11:36	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4B-GS

Lab Sample ID: 180-96046-4

Date Collected: 09/20/19 10:19

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 16:12	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		10			292188	09/21/19 16:59	JBF	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		100			292188	09/21/19 17:14	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 20:58	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:18	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:10	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			964 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	494916	09/30/19 09:29	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 09:53	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:34	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:33	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	25 mL	100 mL	493984	09/25/19 09:57	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	500 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:51	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 11:51	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 6D-GS

Lab Sample ID: 180-96046-5

Date Collected: 09/20/19 14:25

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 16:21	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292188	09/21/19 17:29	JBF	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292188	09/21/19 17:44	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:01	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:23	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:11	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			960 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	494916	09/30/19 09:30	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 09:53	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:36	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:39	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	494938	09/30/19 11:46	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:53	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 12:07	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: EB-01

Lab Sample ID: 180-96046-6

Date Collected: 09/20/19 07:58

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 16:30	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			292188	09/21/19 17:59	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:05	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:28	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:12	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			971 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	494916	09/30/19 09:31	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 09:53	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:39	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:51	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	50 mL	100 mL	493984	09/25/19 09:57	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:56	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genysis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 12:50	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: FB-01

Lab Sample ID: 180-96046-7

Date Collected: 09/20/19 08:35

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 16:38	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			292188	09/21/19 18:14	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:08	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:42	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:13	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			979 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	494916	09/30/19 09:33	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 10:11	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:41	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:55	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	100 mL	100 mL	494023	09/25/19 11:42	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:59	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genysis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 13:04	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: DUP-02

Lab Sample ID: 180-96046-8

Date Collected: 09/20/19 12:00

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 16:47	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		10			292188	09/21/19 18:29	JBF	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		100			292188	09/21/19 18:44	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:11	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:47	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:14	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			965 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	494916	09/30/19 09:34	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 09:53	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:42	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 22:00	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	25 mL	100 mL	494023	09/25/19 11:42	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 21:02	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 13:20	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL BUF

Batch Type: Prep

CLT = Christine Thomas

CRK = Christian Kriner

KEB = Katherine Bauer

Batch Type: Analysis

AEF = Alex Fritz

BEF = Brianna Fallon

CLT = Christine Thomas

CRK = Christian Kriner

CSS = Chandler Stone

KEB = Katherine Bauer

MTM2 = Michael Mosscrop

RP = Rosemary Pietras

Lab: TAL BUR

Batch Type: Analysis

MLT = Melissa Tice

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

RJR = Ron Rosenbaum

Batch Type: Analysis

AGP = Angela Partridge

JBF = Joshua Fritsch

MM1 = Mary Beth Miller

RJR = Ron Rosenbaum

RSK = Robert Kurtz

TAM = Tessa Mastalski

WTR = Bill Reinheimer

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4D-GS

Lab Sample ID: 180-96046-1

Date Collected: 09/20/19 08:55

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	44000		5000	1800	ug/L			09/25/19 15:46	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<1.2		5.0	1.2	mg/L			09/21/19 15:00	50
Nitrite as N	5.1		2.5	1.4	mg/L			09/21/19 15:00	50
Fluoride	<1.3		5.0	1.3	mg/L			09/21/19 15:00	50
Chloride	10000		500	360	mg/L			09/21/19 15:15	500
Bromide	32		25	4.4	mg/L			09/21/19 15:00	50
Sulfate	1000		50	19	mg/L			09/21/19 15:00	50
Orthophosphate as P	<3.1		25	3.1	mg/L			09/21/19 15:00	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:04	1
Aluminum	0.11		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:04	1
Arsenic	0.11		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:04	1
Beryllium	0.00065	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:04	1
Boron	5.0		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:04	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:04	1
Barium	0.18		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:04	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:04	1
Calcium	310		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:04	1
Lead	0.00022	J	0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:04	1
Nickel	0.00039	J	0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:04	1
Cobalt	0.00019	J	0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:04	1
Selenium	0.0016	J	0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:04	1
Thallium	0.00075	J	0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:04	1
Zinc	0.0038	J	0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:04	1
Iron	8.5		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:04	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:04	1
Potassium	180		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:04	1
Magnesium	610		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:04	1
Manganese	0.76		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:04	1
Molybdenum	0.066		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:04	1
Sodium	5700	^	5.0	3.5	mg/L		09/27/19 10:01	10/16/19 20:42	10
Strontium	7.1		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:04	1
Titanium	0.0043	J	0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:04	1
Vanadium	0.0015		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:04	1
SiO2, Silica	21		11	2.8	mg/L		09/27/19 10:01	10/16/19 20:42	10
Lithium	0.13		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:04	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:07	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	3300		0.67	0.022	mg/L			09/24/19 13:30	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4D-GS

Lab Sample ID: 180-96046-1

Date Collected: 09/20/19 08:55

Matrix: Water

Date Received: 09/21/19 09:30

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	770		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	2500		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.5	J B	5.1	1.4	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	6.6	B	1.0	0.50	mg/L		09/26/19 07:05	09/30/19 09:44	5
Total Kjeldahl Nitrogen	7.6		0.40	0.30	mg/L		09/30/19 11:47	10/01/19 13:03	2
Nitrate Nitrite as N	0.035	J B	0.050	0.020	mg/L			09/25/19 19:29	1
Alkalinity, Total	420		5.0	0.79	mg/L			09/30/19 21:08	1
Alkalinity, Bicarbonate	420		5.0	0.79	mg/L			09/30/19 21:08	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:08	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 21:08	1
Total Dissolved Solids	9000	H	100	40	mg/L			09/30/19 11:46	1
Total Suspended Solids	32		1.0	1.0	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	30		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.4	HF	0.1	0.1	SU			09/30/19 20:39	1
Temperature	20.1	HF	0.001	0.001	Degrees C			09/30/19 20:39	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	3.7		1.0	0.51	mg/L			10/10/19 11:06	1

Client Sample ID: 4A-GS

Lab Sample ID: 180-96046-2

Date Collected: 09/20/19 11:05

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	80000		5000	1800	ug/L			09/25/19 15:55	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.23		1.0	0.23	mg/L			09/21/19 15:30	10
Nitrite as N	1.0		0.50	0.29	mg/L			09/21/19 15:30	10
Fluoride	0.45	J	1.0	0.26	mg/L			09/21/19 15:30	10
Chloride	1900		100	71	mg/L			09/21/19 15:45	100
Bromide	6.1		5.0	0.87	mg/L			09/21/19 15:30	10
Sulfate	370		10	3.8	mg/L			09/21/19 15:30	10
Orthophosphate as P	<0.62		5.0	0.62	mg/L			09/21/19 15:30	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:09	1
Aluminum	0.039		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:09	1
Arsenic	0.044		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:09	1
Beryllium	0.00060	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:09	1
Boron	5.2		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:09	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:09	1
Barium	0.29		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:09	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4A-GS

Lab Sample ID: 180-96046-2

Date Collected: 09/20/19 11:05

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.00070	J	0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:09	1
Calcium	270		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:09	1
Lead	0.00021	J	0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:09	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:09	1
Cobalt	0.0072		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:09	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:09	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:09	1
Zinc	0.0033	J	0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:09	1
Iron	9.9		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:09	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:09	1
Potassium	26		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:09	1
Magnesium	110		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:09	1
Manganese	4.6		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:09	1
Molybdenum	0.093		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:09	1
Sodium	880		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:09	1
Strontium	3.8		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:09	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:09	1
Vanadium	0.0012		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:09	1
SiO2, Silica	10		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 20:45	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:09	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:08	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1100		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	670		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	450		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.5	J B	5.2	1.4	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	2.4	B	0.40	0.20	mg/L		09/26/19 07:05	09/30/19 09:45	2
Total Kjeldahl Nitrogen	2.5		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 10:02	1
Nitrate Nitrite as N	<0.020	F1	0.050	0.020	mg/L			09/25/19 19:31	1
Alkalinity, Total	350		5.0	0.79	mg/L			09/30/19 21:24	1
Alkalinity, Bicarbonate	350		5.0	0.79	mg/L			09/30/19 21:24	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:24	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 21:24	1
Total Dissolved Solids	3400		40	16	mg/L			09/25/19 09:57	1
Total Suspended Solids	21		0.50	0.50	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	40		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.2	HF	0.1	0.1	SU			09/30/19 20:45	1
Temperature	19.8	HF	0.001	0.001	Degrees C			09/30/19 20:45	1
Phosphorus	0.081		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	2.9		1.0	0.51	mg/L			10/10/19 11:21	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 3S-GS

Lab Sample ID: 180-96046-3

Date Collected: 09/20/19 14:20

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 16:04	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.23		1.0	0.23	mg/L			09/21/19 16:30	10
Nitrite as N	1.2		0.50	0.29	mg/L			09/21/19 16:30	10
Fluoride	<0.26		1.0	0.26	mg/L			09/21/19 16:30	10
Chloride	2700		100	71	mg/L			09/21/19 16:44	100
Bromide	8.3		5.0	0.87	mg/L			09/21/19 16:30	10
Sulfate	650		100	38	mg/L			09/21/19 16:44	100
Orthophosphate as P	<0.62		5.0	0.62	mg/L			09/21/19 16:30	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0064		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:13	1
Aluminum	0.59		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:13	1
Arsenic	0.16		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:13	1
Beryllium	0.00070	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:13	1
Boron	19		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:13	1
Cadmium	0.00092	J	0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:13	1
Barium	0.090		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:13	1
Chromium	0.13		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:13	1
Copper	0.0036		0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:13	1
Calcium	460		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:13	1
Lead	0.00078	J	0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:13	1
Nickel	0.062		0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:13	1
Cobalt	0.0015		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:13	1
Selenium	0.0030	J	0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:13	1
Zinc	0.0040	J	0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:13	1
Iron	0.53		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:13	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:13	1
Potassium	54		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:13	1
Magnesium	2.5		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:13	1
Manganese	0.018		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:13	1
Molybdenum	2.5		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:13	1
Sodium	1200		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:13	1
Strontium	6.6		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:13	1
Titanium	0.0091		0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:13	1
Vanadium	0.040		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:13	1
SiO2, Silica	4.0		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 20:48	1
Lithium	0.10		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:13	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:09	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1200		0.67	0.022	mg/L			09/24/19 13:30	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 3S-GS

Lab Sample ID: 180-96046-3

Date Collected: 09/20/19 14:20

Matrix: Water

Date Received: 09/21/19 09:30

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	1100		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	10		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.2	J B	5.2	1.5	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	0.90	B	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:28	1
Total Kjeldahl Nitrogen	1.1		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 09:53	1
Nitrate Nitrite as N	0.028	J B	0.050	0.020	mg/L			09/25/19 19:33	1
Alkalinity, Total	94		5.0	0.79	mg/L			09/30/19 21:28	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:28	1
Alkalinity, Carbonate	93		5.0	0.79	mg/L			09/30/19 21:28	1
Hydroxide Alkalinity	1.6	J	5.0	0.79	mg/L			09/30/19 21:28	1
Total Dissolved Solids	2300		100	40	mg/L			09/25/19 09:57	1
Total Suspended Solids	4.2		0.50	0.50	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	<0.10		0.10	0.10	mg/L			10/21/19 13:52	1
pH	9.2	HF	0.1	0.1	SU			09/30/19 20:48	1
Temperature	19.6	HF	0.001	0.001	Degrees C			09/30/19 20:48	1
Phosphorus	0.014		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	1.1		1.0	0.51	mg/L			10/10/19 11:36	1

Client Sample ID: 4B-GS

Lab Sample ID: 180-96046-4

Date Collected: 09/20/19 10:19

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	160000		5000	1800	ug/L			09/25/19 16:12	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.23		1.0	0.23	mg/L			09/21/19 16:59	10
Nitrite as N	1.0		0.50	0.29	mg/L			09/21/19 16:59	10
Fluoride	<0.26		1.0	0.26	mg/L			09/21/19 16:59	10
Chloride	2000		100	71	mg/L			09/21/19 17:14	100
Bromide	5.9		5.0	0.87	mg/L			09/21/19 16:59	10
Sulfate	800		100	38	mg/L			09/21/19 17:14	100
Orthophosphate as P	<0.62		5.0	0.62	mg/L			09/21/19 16:59	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:18	1
Aluminum	<0.013		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:18	1
Arsenic	0.064		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:18	1
Beryllium	0.00042	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:18	1
Boron	3.2		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:18	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:18	1
Barium	0.11		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:18	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4B-GS

Lab Sample ID: 180-96046-4

Date Collected: 09/20/19 10:19

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0037		0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:18	1
Calcium	340		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:18	1
Nickel	0.0020		0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:18	1
Cobalt	0.0063		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:18	1
Thallium	0.00020	J	0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:18	1
Zinc	0.0042	J	0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:18	1
Iron	4.2		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:18	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:18	1
Potassium	19		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:18	1
Magnesium	160		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:18	1
Manganese	6.7		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:18	1
Molybdenum	0.039		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:18	1
Sodium	1100		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:18	1
Strontium	3.0		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:18	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:18	1
Vanadium	0.0017		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:18	1
SiO2, Silica	12		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 20:58	1
Lithium	0.0034	J	0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:18	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:10	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1500		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	850		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	660		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.8	J B	5.2	1.5	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	1.2	B	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:29	1
Total Kjeldahl Nitrogen	1.4		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 09:53	1
Nitrate Nitrite as N	0.028	J B	0.050	0.020	mg/L			09/25/19 19:34	1
Alkalinity, Total	460		5.0	0.79	mg/L			09/30/19 21:33	1
Alkalinity, Bicarbonate	460		5.0	0.79	mg/L			09/30/19 21:33	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:33	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 21:33	1
Total Dissolved Solids	4300		40	16	mg/L			09/25/19 09:57	1
Total Suspended Solids	7.8		1.0	1.0	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	75		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.1	HF	0.1	0.1	SU			09/30/19 20:51	1
Temperature	19.5	HF	0.001	0.001	Degrees C			09/30/19 20:51	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	3.7		1.0	0.51	mg/L			10/10/19 11:51	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 6D-GS

Lab Sample ID: 180-96046-5

Date Collected: 09/20/19 14:25

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	390000		5000	1800	ug/L			09/25/19 16:21	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/21/19 17:29	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/21/19 17:29	25
Fluoride	<0.66		2.5	0.66	mg/L			09/21/19 17:29	25
Chloride	3100		250	180	mg/L			09/21/19 17:44	250
Bromide	13		13	2.2	mg/L			09/21/19 17:29	25
Sulfate	130		25	9.5	mg/L			09/21/19 17:29	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/21/19 17:29	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:23	1
Aluminum	0.21		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:23	1
Arsenic	0.0090		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:23	1
Beryllium	0.0048		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:23	1
Boron	8.2		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:23	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:23	1
Barium	1.5		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:23	1
Chromium	0.0023		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:23	1
Copper	0.0012	J	0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:23	1
Calcium	270		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:23	1
Nickel	0.0049		0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:23	1
Cobalt	0.0025		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:23	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:23	1
Zinc	0.0063		0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:23	1
Iron	110		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:23	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:23	1
Potassium	35		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:23	1
Magnesium	180		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:23	1
Manganese	1.2		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:23	1
Molybdenum	0.025		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:23	1
Sodium	980		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:23	1
Strontium	2.9		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:23	1
Titanium	0.0037	J	0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:23	1
Vanadium	0.0033		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:23	1
SiO2, Silica	22		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 21:01	1
Lithium	0.15		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:23	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:11	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1400		0.67	0.022	mg/L			09/24/19 13:30	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 6D-GS

Lab Sample ID: 180-96046-5

Date Collected: 09/20/19 14:25

Matrix: Water

Date Received: 09/21/19 09:30

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	670		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	740		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.1	J B	5.2	1.5	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	1.0	B	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:30	1
Total Kjeldahl Nitrogen	0.95		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 09:53	1
Nitrate Nitrite as N	0.063	B	0.050	0.020	mg/L			09/25/19 19:36	1
Alkalinity, Total	220		5.0	0.79	mg/L			09/30/19 21:39	1
Alkalinity, Bicarbonate	220		5.0	0.79	mg/L			09/30/19 21:39	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:39	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 21:39	1
Total Dissolved Solids	5400	H	100	40	mg/L			09/30/19 11:46	1
Total Suspended Solids	4.1		0.50	0.50	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	210		0.10	0.10	mg/L			10/21/19 13:52	1
pH	6.3	HF	0.1	0.1	SU			09/30/19 20:53	1
Temperature	19.4	HF	0.001	0.001	Degrees C			09/30/19 20:53	1
Phosphorus	0.092		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	7.8		1.0	0.51	mg/L			10/10/19 12:07	1

Client Sample ID: EB-01

Lab Sample ID: 180-96046-6

Date Collected: 09/20/19 07:58

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 16:30	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/21/19 17:59	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/21/19 17:59	1
Fluoride	<0.026		0.10	0.026	mg/L			09/21/19 17:59	1
Chloride	<0.71		1.0	0.71	mg/L			09/21/19 17:59	1
Bromide	<0.087		0.50	0.087	mg/L			09/21/19 17:59	1
Sulfate	0.53	J	1.0	0.38	mg/L			09/21/19 17:59	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/21/19 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:28	1
Aluminum	<0.013		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:28	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:28	1
Beryllium	0.00018	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:28	1
Boron	0.045	J	0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:28	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:28	1
Barium	<0.0016		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:28	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: EB-01

Lab Sample ID: 180-96046-6

Date Collected: 09/20/19 07:58

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0016	J	0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:28	1
Calcium	<0.13		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:28	1
Nickel	0.00057	J	0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:28	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:28	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:28	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:28	1
Iron	<0.020		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:28	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:28	1
Potassium	<0.16		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:28	1
Magnesium	<0.083		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:28	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:28	1
Molybdenum	0.00067	J	0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:28	1
Sodium	<0.35		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:28	1
Strontium	<0.00076		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:28	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:28	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:28	1
SiO ₂ , Silica	<0.28		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 21:05	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:28	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:12	1

Method: SM 2340B - Total Hardness (as CaCO₃) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	<0.022		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	<0.0071		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	<0.0048		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	4.4	J B	5.1	1.4	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	0.17	J B	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:31	1
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 09:53	1
Nitrate Nitrite as N	<0.020		0.050	0.020	mg/L			09/25/19 19:39	1
Alkalinity, Total	<0.79		5.0	0.79	mg/L			09/30/19 21:51	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:51	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:51	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 21:51	1
Total Dissolved Solids	56		20	8.0	mg/L			09/25/19 09:57	1
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	2.0		0.10	0.10	mg/L			10/21/19 13:52	1
pH	5.7	HF	0.1	0.1	SU			09/30/19 20:56	1
Temperature	19.3	HF	0.001	0.001	Degrees C			09/30/19 20:56	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/10/19 12:50	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: FB-01

Lab Sample ID: 180-96046-7

Date Collected: 09/20/19 08:35

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 16:38	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/21/19 18:14	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/21/19 18:14	1
Fluoride	<0.026		0.10	0.026	mg/L			09/21/19 18:14	1
Chloride	<0.71		1.0	0.71	mg/L			09/21/19 18:14	1
Bromide	<0.087		0.50	0.087	mg/L			09/21/19 18:14	1
Sulfate	0.43	J	1.0	0.38	mg/L			09/21/19 18:14	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/21/19 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:42	1
Aluminum	<0.013		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:42	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:42	1
Beryllium	0.00022	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:42	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:42	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:42	1
Barium	<0.0016		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:42	1
Copper	0.00069	J	0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:42	1
Calcium	<0.13		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:42	1
Nickel	0.00079	J	0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:42	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:42	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:42	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:42	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:42	1
Iron	<0.020		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:42	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:42	1
Potassium	<0.16		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:42	1
Magnesium	<0.083		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:42	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:42	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:42	1
Sodium	<0.35		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:42	1
Strontium	<0.00076		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:42	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:42	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:42	1
SiO2, Silica	<0.28		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 21:08	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:42	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:13	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	<0.022		0.67	0.022	mg/L			09/24/19 13:30	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: FB-01

Lab Sample ID: 180-96046-7

Date Collected: 09/20/19 08:35

Matrix: Water

Date Received: 09/21/19 09:30

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	<0.0071		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	<0.0048		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.7	J B	5.1	1.4	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	0.24	B	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:33	1
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 10:11	1
Nitrate Nitrite as N	<0.020		0.050	0.020	mg/L			09/25/19 19:41	1
Alkalinity, Total	<0.79		5.0	0.79	mg/L			09/30/19 21:55	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:55	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:55	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 21:55	1
Total Dissolved Solids	23		10	4.0	mg/L			09/25/19 11:42	1
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	2.2		0.10	0.10	mg/L			10/21/19 13:52	1
pH	5.6	HF	0.1	0.1	SU			09/30/19 20:59	1
Temperature	19.4	HF	0.001	0.001	Degrees C			09/30/19 20:59	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/10/19 13:04	1

Client Sample ID: DUP-02

Lab Sample ID: 180-96046-8

Date Collected: 09/20/19 12:00

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	160000		5000	1800	ug/L			09/25/19 16:47	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.23		1.0	0.23	mg/L			09/21/19 18:29	10
Nitrite as N	0.93		0.50	0.29	mg/L			09/21/19 18:29	10
Fluoride	<0.26		1.0	0.26	mg/L			09/21/19 18:29	10
Chloride	2000		100	71	mg/L			09/21/19 18:44	100
Bromide	5.9		5.0	0.87	mg/L			09/21/19 18:29	10
Sulfate	790		100	38	mg/L			09/21/19 18:44	100
Orthophosphate as P	<0.62		5.0	0.62	mg/L			09/21/19 18:29	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:47	1
Aluminum	<0.013		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:47	1
Arsenic	0.066		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:47	1
Beryllium	0.00022	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:47	1
Boron	3.1		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:47	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:47	1
Barium	0.11		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:47	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: DUP-02

Lab Sample ID: 180-96046-8

Date Collected: 09/20/19 12:00

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.00071	J	0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:47	1
Calcium	350		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:47	1
Nickel	0.0019		0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:47	1
Cobalt	0.0064		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:47	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:47	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:47	1
Zinc	0.0037	J	0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:47	1
Iron	4.1		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:47	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:47	1
Potassium	19		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:47	1
Magnesium	160		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:47	1
Manganese	6.8		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:47	1
Molybdenum	0.035		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:47	1
Sodium	1100		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:47	1
Strontium	3.1		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:47	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:47	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:47	1
SiO2, Silica	13		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 21:11	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:47	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:14	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1500		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	870		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	660		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.0	J B	5.2	1.5	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	1.4	B	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:34	1
Total Kjeldahl Nitrogen	1.3		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 09:53	1
Nitrate Nitrite as N	0.021	J B	0.050	0.020	mg/L			09/25/19 19:42	1
Alkalinity, Total	450		5.0	0.79	mg/L			09/30/19 22:00	1
Alkalinity, Bicarbonate	450		5.0	0.79	mg/L			09/30/19 22:00	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 22:00	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 22:00	1
Total Dissolved Solids	4000		40	16	mg/L			09/25/19 11:42	1
Total Suspended Solids	7.5		0.50	0.50	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	65		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.1	HF	0.1	0.1	SU			09/30/19 21:02	1
Temperature	19.6	HF	0.001	0.001	Degrees C			09/30/19 21:02	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	3.7		1.0	0.51	mg/L			10/10/19 13:20	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-147732/24
Matrix: Water
Analysis Batch: 147732

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 15:37	1

Lab Sample ID: MB 200-147732/4
Matrix: Water
Analysis Batch: 147732

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 12:43	1

Lab Sample ID: LCS 200-147732/22
Matrix: Water
Analysis Batch: 147732

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	40000	46400		ug/L		116	70 - 130

Lab Sample ID: LCSD 200-147732/23
Matrix: Water
Analysis Batch: 147732

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
Carbon dioxide	40000	46400		ug/L		116	70 - 130	0	30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-292188/6
Matrix: Water
Analysis Batch: 292188

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/21/19 13:45	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/21/19 13:45	1
Fluoride	<0.026		0.10	0.026	mg/L			09/21/19 13:45	1
Chloride	<0.71		1.0	0.71	mg/L			09/21/19 13:45	1
Bromide	<0.087		0.50	0.087	mg/L			09/21/19 13:45	1
Sulfate	<0.38		1.0	0.38	mg/L			09/21/19 13:45	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/21/19 13:45	1

Lab Sample ID: LCS 180-292188/5
Matrix: Water
Analysis Batch: 292188

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.25	1.18		mg/L		94	90 - 110
Nitrite as N	1.25	1.22		mg/L		97	90 - 110
Fluoride	1.25	1.18		mg/L		95	90 - 110
Chloride	25.0	25.8		mg/L		103	90 - 110
Bromide	5.00	4.77		mg/L		95	90 - 110
Sulfate	25.0	24.3		mg/L		97	90 - 110
Orthophosphate as P	1.25	1.14		mg/L		91	90 - 110

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-292939/1-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/15/19 23:54	1
Aluminum	<0.013		0.030	0.013	mg/L		09/27/19 10:01	10/15/19 23:54	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/15/19 23:54	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/15/19 23:54	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/15/19 23:54	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/15/19 23:54	1
Barium	<0.0016		0.010	0.0016	mg/L		09/27/19 10:01	10/15/19 23:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/15/19 23:54	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/27/19 10:01	10/15/19 23:54	1
Calcium	<0.13		0.50	0.13	mg/L		09/27/19 10:01	10/15/19 23:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/15/19 23:54	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/27/19 10:01	10/15/19 23:54	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:01	10/15/19 23:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/15/19 23:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/15/19 23:54	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/27/19 10:01	10/15/19 23:54	1
Iron	<0.020		0.050	0.020	mg/L		09/27/19 10:01	10/15/19 23:54	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/15/19 23:54	1
Potassium	<0.16		0.50	0.16	mg/L		09/27/19 10:01	10/15/19 23:54	1
Magnesium	<0.083		0.50	0.083	mg/L		09/27/19 10:01	10/15/19 23:54	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/27/19 10:01	10/15/19 23:54	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:01	10/15/19 23:54	1
Sodium	<0.35		0.50	0.35	mg/L		09/27/19 10:01	10/15/19 23:54	1
Strontium	<0.00076		0.0050	0.00076	mg/L		09/27/19 10:01	10/15/19 23:54	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/27/19 10:01	10/15/19 23:54	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/27/19 10:01	10/15/19 23:54	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/15/19 23:54	1

Lab Sample ID: MB 180-292939/1-A
Matrix: Water
Analysis Batch: 295148

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
SiO2, Silica	<0.28		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 20:35	1

Lab Sample ID: LCS 180-292939/2-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.261		mg/L		104	80 - 120
Aluminum	5.00	4.74		mg/L		95	80 - 120
Arsenic	1.00	0.866		mg/L		87	80 - 120
Beryllium	0.500	0.482		mg/L		96	80 - 120
Boron	1.25	1.28		mg/L		102	80 - 120
Cadmium	0.500	0.437		mg/L		87	80 - 120
Barium	1.00	0.816		mg/L		82	80 - 120
Chromium	0.500	0.453		mg/L		91	80 - 120
Copper	0.500	0.448		mg/L		90	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

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

Lab Sample ID: LCS 180-292939/2-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25.0	25.5		mg/L		102	80 - 120
Lead	0.500	0.427		mg/L		85	80 - 120
Nickel	0.500	0.452		mg/L		90	80 - 120
Cobalt	0.500	0.443		mg/L		89	80 - 120
Selenium	1.00	0.842		mg/L		84	80 - 120
Thallium	1.00	0.849		mg/L		85	80 - 120
Zinc	0.250	0.245		mg/L		98	80 - 120
Iron	5.00	4.57		mg/L		91	80 - 120
Silver	0.250	0.243		mg/L		97	80 - 120
Potassium	25.0	24.8		mg/L		99	80 - 120
Magnesium	25.0	24.1		mg/L		96	80 - 120
Manganese	0.500	0.426		mg/L		85	80 - 120
Molybdenum	0.500	0.436		mg/L		87	80 - 120
Sodium	25.0	25.9		mg/L		103	80 - 120
Strontium	0.500	0.409		mg/L		82	80 - 120
Titanium	0.500	0.432		mg/L		86	80 - 120
Vanadium	0.500	0.448		mg/L		90	80 - 120
Lithium	0.500	0.442		mg/L		88	80 - 120

Lab Sample ID: LCS 180-292939/2-A
Matrix: Water
Analysis Batch: 295315

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
SiO ₂ , Silica	2.14	1.96		mg/L		92	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-293943/1-A
Matrix: Water
Analysis Batch: 294165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:47	1

Lab Sample ID: LCS 180-293943/2-A
Matrix: Water
Analysis Batch: 294165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00252		mg/L		101	80 - 120

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-494305/1-A
Matrix: Water
Analysis Batch: 494325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.25	J	5.1	1.4	mg/L		09/26/19 13:06	09/26/19 14:23	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: 1664B - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 480-494305/2-A
Matrix: Water
Analysis Batch: 494325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494305
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Oil & Grease	40.0	38.84		mg/L		97	78 - 114

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-494186/1-A
Matrix: Water
Analysis Batch: 494916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.102	J	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:23	1

Lab Sample ID: LCS 480-494186/2-A
Matrix: Water
Analysis Batch: 494916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494186
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	1.00	0.980		mg/L		98	90 - 110

Lab Sample ID: 180-96046-2 MS
Matrix: Water
Analysis Batch: 494916

Client Sample ID: 4A-GS
Prep Type: Total/NA
Prep Batch: 494186
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Ammonia	2.4	B	0.500	2.60	4	mg/L		48	90 - 110

Lab Sample ID: 180-96046-1 DU
Matrix: Water
Analysis Batch: 494916

Client Sample ID: 4D-GS
Prep Type: Total/NA
Prep Batch: 494186

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ammonia	6.6	B	6.15		mg/L		6	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-494940/1-A
Matrix: Water
Analysis Batch: 495223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 09:41	1

Lab Sample ID: LCS 480-494940/2-A
Matrix: Water
Analysis Batch: 495223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494940
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.55		mg/L		102	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 180-96046-1 MS
Matrix: Water
Analysis Batch: 495223

Client Sample ID: 4D-GS
Prep Type: Total/NA
Prep Batch: 494940
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	7.6		1.00	7.82	4	mg/L		20	90 - 110

Lab Sample ID: 180-96046-8 MS
Matrix: Water
Analysis Batch: 495223

Client Sample ID: DUP-02
Prep Type: Total/NA
Prep Batch: 494940
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	1.3		1.00	2.28		mg/L		98	90 - 110

Lab Sample ID: 180-96046-7 DU
Matrix: Water
Analysis Batch: 495223

Client Sample ID: FB-01
Prep Type: Total/NA
Prep Batch: 494940

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Kjeldahl Nitrogen	<0.15		<0.15		mg/L		NC	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-494149/4
Matrix: Water
Analysis Batch: 494149

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0211	J	0.050	0.020	mg/L			09/25/19 19:25	1

Lab Sample ID: LCS 480-494149/5
Matrix: Water
Analysis Batch: 494149

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N	1.50	1.48		mg/L		99	90 - 110

Lab Sample ID: 180-96046-2 MS
Matrix: Water
Analysis Batch: 494149

Client Sample ID: 4A-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N	<0.020	F1	1.00	0.887	F1	mg/L		89	90 - 110

Lab Sample ID: 180-96046-6 MS
Matrix: Water
Analysis Batch: 494149

Client Sample ID: EB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N	<0.020		1.00	0.925		mg/L		93	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 180-96046-1 DU
Matrix: Water
Analysis Batch: 494149

Client Sample ID: 4D-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.035	J B	<0.020		mg/L		NC	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-495181/7
Matrix: Water
Analysis Batch: 495181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1

Lab Sample ID: LCS 480-495181/8
Matrix: Water
Analysis Batch: 495181

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	92.0		mg/L		92	90 - 110

Lab Sample ID: 180-96046-1 MS
Matrix: Water
Analysis Batch: 495181

Client Sample ID: 4D-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	420		100	454	4	mg/L		34	60 - 140

Lab Sample ID: 180-96046-1 DU
Matrix: Water
Analysis Batch: 495181

Client Sample ID: 4D-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	420		380		mg/L		10	20
Alkalinity, Bicarbonate	420		380		mg/L		10	20
Alkalinity, Carbonate	<0.79		<0.79		mg/L		NC	20
Hydroxide Alkalinity	<0.79		<0.79		mg/L		NC	20

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

Lab Sample ID: MB 480-493984/1
Matrix: Water
Analysis Batch: 493984

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	<4.0		10	4.0	mg/L			09/25/19 09:57	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

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

Lab Sample ID: LCS 480-493984/2
Matrix: Water
Analysis Batch: 493984

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	500	469		mg/L		94	85 - 115

Lab Sample ID: 180-96046-3 DU
Matrix: Water
Analysis Batch: 493984

Client Sample ID: 3S-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2300		2560		mg/L		10	10

Lab Sample ID: MB 480-494023/1
Matrix: Water
Analysis Batch: 494023

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	<4.0		10	4.0	mg/L			09/25/19 11:42	1

Lab Sample ID: LCS 480-494023/2
Matrix: Water
Analysis Batch: 494023

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	500	527		mg/L		105	85 - 115

Lab Sample ID: 180-96046-7 DU
Matrix: Water
Analysis Batch: 494023

Client Sample ID: FB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	23		24.0		mg/L		4	10

Lab Sample ID: MB 480-494938/1
Matrix: Water
Analysis Batch: 494938

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	<4.0		10	4.0	mg/L			09/30/19 11:46	1

Lab Sample ID: LCS 480-494938/2
Matrix: Water
Analysis Batch: 494938

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	500	462		mg/L		92	85 - 115

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 180-292457/2
Matrix: Water
Analysis Batch: 292457

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/24/19 13:18	1

Lab Sample ID: LCS 180-292457/1
Matrix: Water
Analysis Batch: 292457

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	82.3	90.0		mg/L		109	80 - 120

Lab Sample ID: 180-96046-1 DU
Matrix: Water
Analysis Batch: 292457

Client Sample ID: 4D-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	32		31.8		mg/L		1	10

Lab Sample ID: 180-96046-4 DU
Matrix: Water
Analysis Batch: 292457

Client Sample ID: 4B-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	7.8		7.80		mg/L		0	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-495182/1
Matrix: Water
Analysis Batch: 495182

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: 180-96046-1 DU
Matrix: Water
Analysis Batch: 495182

Client Sample ID: 4D-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.4	HF	7.4		SU		0	5
Temperature	20.1	HF	20.1		Degrees C		0.1	10

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-495438/27
Matrix: Water
Analysis Batch: 495438

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: SM 4500 P E - Phosphorus (Continued)

Lab Sample ID: MB 480-495438/51
Matrix: Water
Analysis Batch: 495438

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1

Lab Sample ID: LCS 480-495438/28
Matrix: Water
Analysis Batch: 495438

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.200	0.185		mg/L		92	90 - 110

Lab Sample ID: LCS 480-495438/52
Matrix: Water
Analysis Batch: 495438

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.200	0.183		mg/L		91	90 - 110

Lab Sample ID: 180-96046-4 MS
Matrix: Water
Analysis Batch: 495438

Client Sample ID: 4B-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	<0.0050		0.500	0.492		mg/L		98	52 - 148

Lab Sample ID: 180-96046-4 MSD
Matrix: Water
Analysis Batch: 495438

Client Sample ID: 4B-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	<0.0050		0.500	0.492		mg/L		98	52 - 148	0	20

Method: SM 5310C - Total Organic Carbon

Lab Sample ID: MB 180-294515/6
Matrix: Water
Analysis Batch: 294515

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/10/19 10:51	1

Lab Sample ID: LCS 180-294515/4
Matrix: Water
Analysis Batch: 294515

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	20.0	18.8		mg/L		94	85 - 115

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: SM 5310C - Total Organic Carbon (Continued)

Lab Sample ID: LCSD 180-294515/5
Matrix: Water
Analysis Batch: 294515

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
Total Organic Carbon - Duplicates	20.0	18.8		mg/L		94	85 - 115	0	20

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

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

GC VOA

Analysis Batch: 147732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	RSK-175	
180-96046-2	4A-GS	Total/NA	Water	RSK-175	
180-96046-3	3S-GS	Total/NA	Water	RSK-175	
180-96046-4	4B-GS	Total/NA	Water	RSK-175	
180-96046-5	6D-GS	Total/NA	Water	RSK-175	
180-96046-6	EB-01	Total/NA	Water	RSK-175	
180-96046-7	FB-01	Total/NA	Water	RSK-175	
180-96046-8	DUP-02	Total/NA	Water	RSK-175	
MB 200-147732/24	Method Blank	Total/NA	Water	RSK-175	
MB 200-147732/4	Method Blank	Total/NA	Water	RSK-175	
LCS 200-147732/22	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-147732/23	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 292188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-1	4D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-2	4A-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-2	4A-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-3	3S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-3	3S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-4	4B-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-4	4B-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-5	6D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-5	6D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-6	EB-01	Total/NA	Water	EPA 300.0 R2.1	
180-96046-7	FB-01	Total/NA	Water	EPA 300.0 R2.1	
180-96046-8	DUP-02	Total/NA	Water	EPA 300.0 R2.1	
180-96046-8	DUP-02	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292188/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292188/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Analysis Batch: 292462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total Recoverable	Water	SM 2340B	
180-96046-2	4A-GS	Total Recoverable	Water	SM 2340B	
180-96046-3	3S-GS	Total Recoverable	Water	SM 2340B	
180-96046-4	4B-GS	Total Recoverable	Water	SM 2340B	
180-96046-5	6D-GS	Total Recoverable	Water	SM 2340B	
180-96046-6	EB-01	Total Recoverable	Water	SM 2340B	
180-96046-7	FB-01	Total Recoverable	Water	SM 2340B	
180-96046-8	DUP-02	Total Recoverable	Water	SM 2340B	

Prep Batch: 292939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total Recoverable	Water	3005A	
180-96046-2	4A-GS	Total Recoverable	Water	3005A	
180-96046-3	3S-GS	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Metals (Continued)

Prep Batch: 292939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-4	4B-GS	Total Recoverable	Water	3005A	
180-96046-5	6D-GS	Total Recoverable	Water	3005A	
180-96046-6	EB-01	Total Recoverable	Water	3005A	
180-96046-7	FB-01	Total Recoverable	Water	3005A	
180-96046-8	DUP-02	Total Recoverable	Water	3005A	
MB 180-292939/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292939/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 293943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	7470A	
180-96046-2	4A-GS	Total/NA	Water	7470A	
180-96046-3	3S-GS	Total/NA	Water	7470A	
180-96046-4	4B-GS	Total/NA	Water	7470A	
180-96046-5	6D-GS	Total/NA	Water	7470A	
180-96046-6	EB-01	Total/NA	Water	7470A	
180-96046-7	FB-01	Total/NA	Water	7470A	
180-96046-8	DUP-02	Total/NA	Water	7470A	
MB 180-293943/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293943/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 294165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	EPA 7470A	293943
180-96046-2	4A-GS	Total/NA	Water	EPA 7470A	293943
180-96046-3	3S-GS	Total/NA	Water	EPA 7470A	293943
180-96046-4	4B-GS	Total/NA	Water	EPA 7470A	293943
180-96046-5	6D-GS	Total/NA	Water	EPA 7470A	293943
180-96046-6	EB-01	Total/NA	Water	EPA 7470A	293943
180-96046-7	FB-01	Total/NA	Water	EPA 7470A	293943
180-96046-8	DUP-02	Total/NA	Water	EPA 7470A	293943
MB 180-293943/1-A	Method Blank	Total/NA	Water	EPA 7470A	293943
LCS 180-293943/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293943

Analysis Batch: 295123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-2	4A-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-3	3S-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-4	4B-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-5	6D-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-6	EB-01	Total Recoverable	Water	EPA 6020	292939
180-96046-7	FB-01	Total Recoverable	Water	EPA 6020	292939
180-96046-8	DUP-02	Total Recoverable	Water	EPA 6020	292939
MB 180-292939/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292939
LCS 180-292939/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292939

Analysis Batch: 295148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-2	4A-GS	Total Recoverable	Water	EPA 6020	292939

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Metals (Continued)

Analysis Batch: 295148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-3	3S-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-4	4B-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-5	6D-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-6	EB-01	Total Recoverable	Water	EPA 6020	292939
180-96046-7	FB-01	Total Recoverable	Water	EPA 6020	292939
180-96046-8	DUP-02	Total Recoverable	Water	EPA 6020	292939
MB 180-292939/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292939

Analysis Batch: 295315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-292939/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292939

General Chemistry

Analysis Batch: 292457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 2540D	
180-96046-2	4A-GS	Total/NA	Water	SM 2540D	
180-96046-3	3S-GS	Total/NA	Water	SM 2540D	
180-96046-4	4B-GS	Total/NA	Water	SM 2540D	
180-96046-5	6D-GS	Total/NA	Water	SM 2540D	
180-96046-6	EB-01	Total/NA	Water	SM 2540D	
180-96046-7	FB-01	Total/NA	Water	SM 2540D	
180-96046-8	DUP-02	Total/NA	Water	SM 2540D	
MB 180-292457/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 180-292457/1	Lab Control Sample	Total/NA	Water	SM 2540D	
180-96046-1 DU	4D-GS	Total/NA	Water	SM 2540D	
180-96046-4 DU	4B-GS	Total/NA	Water	SM 2540D	

Analysis Batch: 294515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 5310C	
180-96046-2	4A-GS	Total/NA	Water	SM 5310C	
180-96046-3	3S-GS	Total/NA	Water	SM 5310C	
180-96046-4	4B-GS	Total/NA	Water	SM 5310C	
180-96046-5	6D-GS	Total/NA	Water	SM 5310C	
180-96046-6	EB-01	Total/NA	Water	SM 5310C	
180-96046-7	FB-01	Total/NA	Water	SM 5310C	
180-96046-8	DUP-02	Total/NA	Water	SM 5310C	
MB 180-294515/6	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-294515/4	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-294515/5	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 493984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-2	4A-GS	Total/NA	Water	SM 2540C	
180-96046-3	3S-GS	Total/NA	Water	SM 2540C	
180-96046-4	4B-GS	Total/NA	Water	SM 2540C	
180-96046-6	EB-01	Total/NA	Water	SM 2540C	
MB 480-493984/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-493984/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

General Chemistry (Continued)

Analysis Batch: 493984 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-3 DU	3S-GS	Total/NA	Water	SM 2540C	

Analysis Batch: 494023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-7	FB-01	Total/NA	Water	SM 2540C	
180-96046-8	DUP-02	Total/NA	Water	SM 2540C	
MB 480-494023/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-494023/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-96046-7 DU	FB-01	Total/NA	Water	SM 2540C	

Analysis Batch: 494149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	353.2	
180-96046-2	4A-GS	Total/NA	Water	353.2	
180-96046-3	3S-GS	Total/NA	Water	353.2	
180-96046-4	4B-GS	Total/NA	Water	353.2	
180-96046-5	6D-GS	Total/NA	Water	353.2	
180-96046-6	EB-01	Total/NA	Water	353.2	
180-96046-7	FB-01	Total/NA	Water	353.2	
180-96046-8	DUP-02	Total/NA	Water	353.2	
MB 480-494149/4	Method Blank	Total/NA	Water	353.2	
LCS 480-494149/5	Lab Control Sample	Total/NA	Water	353.2	
180-96046-2 MS	4A-GS	Total/NA	Water	353.2	
180-96046-6 MS	EB-01	Total/NA	Water	353.2	
180-96046-1 DU	4D-GS	Total/NA	Water	353.2	

Prep Batch: 494186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	Distill/Ammonia	
180-96046-2	4A-GS	Total/NA	Water	Distill/Ammonia	
180-96046-3	3S-GS	Total/NA	Water	Distill/Ammonia	
180-96046-4	4B-GS	Total/NA	Water	Distill/Ammonia	
180-96046-5	6D-GS	Total/NA	Water	Distill/Ammonia	
180-96046-6	EB-01	Total/NA	Water	Distill/Ammonia	
180-96046-7	FB-01	Total/NA	Water	Distill/Ammonia	
180-96046-8	DUP-02	Total/NA	Water	Distill/Ammonia	
MB 480-494186/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-494186/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
180-96046-2 MS	4A-GS	Total/NA	Water	Distill/Ammonia	
180-96046-1 DU	4D-GS	Total/NA	Water	Distill/Ammonia	

Prep Batch: 494305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	1664B	
180-96046-2	4A-GS	Total/NA	Water	1664B	
180-96046-3	3S-GS	Total/NA	Water	1664B	
180-96046-4	4B-GS	Total/NA	Water	1664B	
180-96046-5	6D-GS	Total/NA	Water	1664B	
180-96046-6	EB-01	Total/NA	Water	1664B	
180-96046-7	FB-01	Total/NA	Water	1664B	
180-96046-8	DUP-02	Total/NA	Water	1664B	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

General Chemistry (Continued)

Prep Batch: 494305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-494305/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-494305/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 494325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	1664B	494305
180-96046-2	4A-GS	Total/NA	Water	1664B	494305
180-96046-3	3S-GS	Total/NA	Water	1664B	494305
180-96046-4	4B-GS	Total/NA	Water	1664B	494305
180-96046-5	6D-GS	Total/NA	Water	1664B	494305
180-96046-6	EB-01	Total/NA	Water	1664B	494305
180-96046-7	FB-01	Total/NA	Water	1664B	494305
180-96046-8	DUP-02	Total/NA	Water	1664B	494305
MB 480-494305/1-A	Method Blank	Total/NA	Water	1664B	494305
LCS 480-494305/2-A	Lab Control Sample	Total/NA	Water	1664B	494305

Analysis Batch: 494916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	350.1	494186
180-96046-2	4A-GS	Total/NA	Water	350.1	494186
180-96046-3	3S-GS	Total/NA	Water	350.1	494186
180-96046-4	4B-GS	Total/NA	Water	350.1	494186
180-96046-5	6D-GS	Total/NA	Water	350.1	494186
180-96046-6	EB-01	Total/NA	Water	350.1	494186
180-96046-7	FB-01	Total/NA	Water	350.1	494186
180-96046-8	DUP-02	Total/NA	Water	350.1	494186
MB 480-494186/1-A	Method Blank	Total/NA	Water	350.1	494186
LCS 480-494186/2-A	Lab Control Sample	Total/NA	Water	350.1	494186
180-96046-2 MS	4A-GS	Total/NA	Water	350.1	494186
180-96046-1 DU	4D-GS	Total/NA	Water	350.1	494186

Analysis Batch: 494938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 2540C	
180-96046-5	6D-GS	Total/NA	Water	SM 2540C	
MB 480-494938/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-494938/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Prep Batch: 494940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	351.2	
180-96046-2	4A-GS	Total/NA	Water	351.2	
180-96046-3	3S-GS	Total/NA	Water	351.2	
180-96046-4	4B-GS	Total/NA	Water	351.2	
180-96046-5	6D-GS	Total/NA	Water	351.2	
180-96046-6	EB-01	Total/NA	Water	351.2	
180-96046-7	FB-01	Total/NA	Water	351.2	
180-96046-8	DUP-02	Total/NA	Water	351.2	
MB 480-494940/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-494940/2-A	Lab Control Sample	Total/NA	Water	351.2	
180-96046-1 MS	4D-GS	Total/NA	Water	351.2	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

General Chemistry (Continued)

Prep Batch: 494940 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-8 MS	DUP-02	Total/NA	Water	351.2	
180-96046-7 DU	FB-01	Total/NA	Water	351.2	

Analysis Batch: 495181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 2320B	
180-96046-2	4A-GS	Total/NA	Water	SM 2320B	
180-96046-3	3S-GS	Total/NA	Water	SM 2320B	
180-96046-4	4B-GS	Total/NA	Water	SM 2320B	
180-96046-5	6D-GS	Total/NA	Water	SM 2320B	
180-96046-6	EB-01	Total/NA	Water	SM 2320B	
180-96046-7	FB-01	Total/NA	Water	SM 2320B	
180-96046-8	DUP-02	Total/NA	Water	SM 2320B	
MB 480-495181/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-495181/8	Lab Control Sample	Total/NA	Water	SM 2320B	
180-96046-1 MS	4D-GS	Total/NA	Water	SM 2320B	
180-96046-1 DU	4D-GS	Total/NA	Water	SM 2320B	

Analysis Batch: 495182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 4500 H+ B	
180-96046-2	4A-GS	Total/NA	Water	SM 4500 H+ B	
180-96046-3	3S-GS	Total/NA	Water	SM 4500 H+ B	
180-96046-4	4B-GS	Total/NA	Water	SM 4500 H+ B	
180-96046-5	6D-GS	Total/NA	Water	SM 4500 H+ B	
180-96046-6	EB-01	Total/NA	Water	SM 4500 H+ B	
180-96046-7	FB-01	Total/NA	Water	SM 4500 H+ B	
180-96046-8	DUP-02	Total/NA	Water	SM 4500 H+ B	
LCS 480-495182/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
180-96046-1 DU	4D-GS	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 495223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	351.2	494940
180-96046-2	4A-GS	Total/NA	Water	351.2	494940
180-96046-3	3S-GS	Total/NA	Water	351.2	494940
180-96046-4	4B-GS	Total/NA	Water	351.2	494940
180-96046-5	6D-GS	Total/NA	Water	351.2	494940
180-96046-6	EB-01	Total/NA	Water	351.2	494940
180-96046-7	FB-01	Total/NA	Water	351.2	494940
180-96046-8	DUP-02	Total/NA	Water	351.2	494940
MB 480-494940/1-A	Method Blank	Total/NA	Water	351.2	494940
LCS 480-494940/2-A	Lab Control Sample	Total/NA	Water	351.2	494940
180-96046-1 MS	4D-GS	Total/NA	Water	351.2	494940
180-96046-8 MS	DUP-02	Total/NA	Water	351.2	494940
180-96046-7 DU	FB-01	Total/NA	Water	351.2	494940

Analysis Batch: 495438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 4500 P E	
180-96046-2	4A-GS	Total/NA	Water	SM 4500 P E	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

General Chemistry (Continued)

Analysis Batch: 495438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-3	3S-GS	Total/NA	Water	SM 4500 P E	
180-96046-4	4B-GS	Total/NA	Water	SM 4500 P E	
180-96046-5	6D-GS	Total/NA	Water	SM 4500 P E	
180-96046-6	EB-01	Total/NA	Water	SM 4500 P E	
180-96046-7	FB-01	Total/NA	Water	SM 4500 P E	
180-96046-8	DUP-02	Total/NA	Water	SM 4500 P E	
MB 480-495438/27	Method Blank	Total/NA	Water	SM 4500 P E	
MB 480-495438/51	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-495438/28	Lab Control Sample	Total/NA	Water	SM 4500 P E	
LCS 480-495438/52	Lab Control Sample	Total/NA	Water	SM 4500 P E	
180-96046-4 MS	4B-GS	Total/NA	Water	SM 4500 P E	
180-96046-4 MSD	4B-GS	Total/NA	Water	SM 4500 P E	

Analysis Batch: 499249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 4500 CO2 B	
180-96046-2	4A-GS	Total/NA	Water	SM 4500 CO2 B	
180-96046-3	3S-GS	Total/NA	Water	SM 4500 CO2 B	
180-96046-4	4B-GS	Total/NA	Water	SM 4500 CO2 B	
180-96046-5	6D-GS	Total/NA	Water	SM 4500 CO2 B	
180-96046-6	EB-01	Total/NA	Water	SM 4500 CO2 B	
180-96046-7	FB-01	Total/NA	Water	SM 4500 CO2 B	
180-96046-8	DUP-02	Total/NA	Water	SM 4500 CO2 B	

Client Information Client Contact: Ms. Lauren Petty Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-5417(Tel) Email: lpetty@southernco.com Project Name: CCR - Plant Watson Special AP Site:		Lab PM: Veronica Bortot E-Mail: veronica.bortot@testamericainc.com Sampler: <i>Rick Alexander / Bradd</i> Phone: <i>850-336-6092</i>		Carner Tracking No(s): COC No: 180-54585-11376.2 Page: Page 2 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 18020186 SOW#:		Analysis Requested Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) 9315_Ra226_9320_Ra228 220B_2540C_CalcI_SM4500_H+ 6020_7470A 350.1_351.2_Pres_4500_P_E 300_ORGFMS - ortho Phos Bromide, Cl, SO4, F 5310C - TOC 2540D - TSS RSK_175_CO2 - CarbonDioxide 1664B - Oil and Grease			
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=soil, BT=Tissue, AA=Air) Preservation Code: 4D-GS 9-20-19 0855 G Water F 4A-GS 1105 Water 3S-GS 1420 Water 4B-GS 1019 Water 6D-GS 1425 Water GB-01 0758 Water FB-01 0835 Water Dup-02 1200 Water		Total Number of Containers: Special Instructions/Note: 180-96046 Chain of Custody			
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: _____ Relinquished by: <i>[Signature]</i> Date: 9-20-19 1659 Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____		Method of Shipment: _____ Received by: <i>[Signature]</i> Date/Time: 9/21/19 0930 Received by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Cooler Temperature(s) °C and Other Remarks:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Company: <i>[Signature]</i> Company: <i>[Signature]</i> Company: <i>[Signature]</i>			





151967 REV 7/08 RRD

ay Delivery

Uncorrected temp
Thermometer ID 2.4
10

CF 0 Initials B

PT-WI-SR-001 effective 11/8/18

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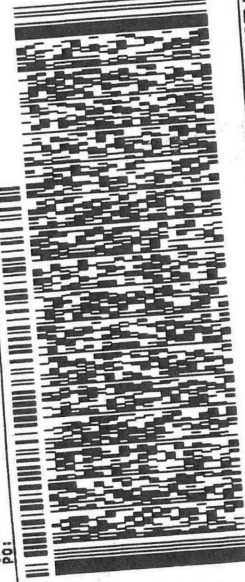
Part # 156207 2825 12/19

SHIP DATE: 20SEP19
ACTWT: 57.40 LB
CAD: 6993800/SSFE2021
DIMS: 24x13x14 IN
BILL THIRD PARTY

ORIGIN ID: BIXA (850) 336-0192
RICK HAGENDORFER
RDH ENVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

TO SAMPLE CONTROL
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(565) 666-6666
REF: (565) 666-6666
DEPT: REF: (565) 666-6666



SATURDAY 12:00P
PRIORITY OVERNIGHT

2 of 5
MPS# 7899 5620 3440
0263
Mistr# 7899 5620 3430

0201

XO AGCA

15238
PA-US
PI



Uncorrected temp
Thermometer ID

Initials

CF 0

PT-WI-SR-001 effective 11/8/18

RT 639
ST 6
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3440
09.21

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Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 398-0192
RICK HASENDORFER

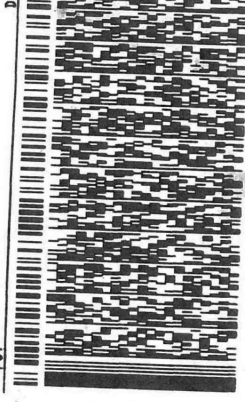
RDH ENVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

SHIP DATE: 20SEF19
ACT WT: 5.30 LB
CAD: 699300/3SFE2021
DIMS: 24x19x14 IN
BILL THIRD PARTY

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(556) 565-5566 REF:
INOT
P01

DEPT:



11292019062401 UP

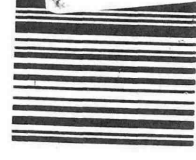
3 of 5
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# **7899 5620 3451**
0263
Met# **7899 5620 5430**
0201

XO AGCA

15238
PA-US
PIT

Uncorrected temp
Thermometer ID



CF 0 Initials B

2.4 °C
10

PT-WI-SR-001 effective 11/8/18

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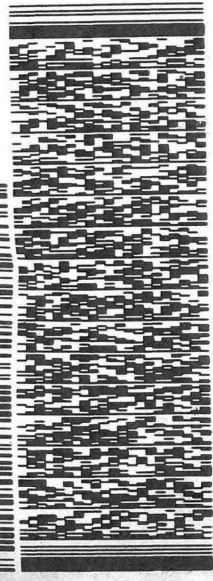
398-0192

ORIGIN: RICK HAGE RDH EVIRONMENTAL 5720 DOVE DR PACE, FL 32571 UNITED STATES US

SHIP DATE: 20SEP19
ACT WT: 85.50 LB
CWB: 5983800/58FE2021
DIM: 24x13x14 IN
BILL THIRD PARTY

TO SAMPLE CONTROL
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

REF: (555) 555-5555 DEPT: (555) 555-5555



FedEx Express

4 of 5
SATURDAY 12:00P
PRIORITY OVERNIGHT
15238
PA-US PIT

MPS# 7899 5620 3462
Mstr# 7899 5620 3480

XO AGCA

Uncorrected temp Thermometer ID
CF 0 Initials JB
PT-WI-SR-001 effective 11/8/18

A 5 12:00 3462 09.21

RT 639 ST 6

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- 12
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ORIGIN ID: BIXA (850) 336-0192
RICK HAGENDORFER

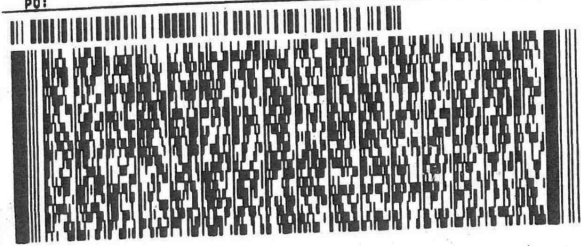
RDH ENVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

SHIP DATE: 20SEP19
ACTWGT: 70.10 LB
CAD: 6993800/SSFE2021
DIMS: 24x13x14 IN
BILL THIRD PARTY

TO **SAMPLE CONTROL
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238**

(666) 555-5555
INU:
PO:

REF:
DEPT:



FedEx
Express



5 of 5
MPS# 7899 5620 3473
0263
Metr# 7899 5620 3430

**SATURDAY 12:00
PRIORITY OVERNIGHT**

XO AGCA

0201

15238
PA-US RT

Uncorrected temp
Thermometer ID

1.6 °C
10

CF 6 Initials B

PT-WI-SR-001 effective 11/8/18



RT 639
ST 6
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12:00
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3473
09/21

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ORIGIN ID:AGCA (412) 963-7058
EUROFINS TESTAMERICA PITTSBURGH
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE

SHIP DATE: 23SEP19
ACTWGT: 45.00 LB MAN
CAD: 741733/CAFE3211

PITTSBURGH, PA 152381330
UNITED STATES US

BILL RECIPIENT

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 860-1980
PO: YES

REF: 8180-54754

DEPT: SAMPLE RECEIVING

351C1/9004/204C
J181118060501 BY

ORIGIN ID:AGCA (412) 963-7058
EUROFINS TESTAMERICA PITTSBURGH
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE

SHIP DATE: 23SEP19
ACTWGT: 45.00 LB MAN
CAD: 741733/CAFE3211

PITTSBURGH, PA 152381330
UNITED STATES US

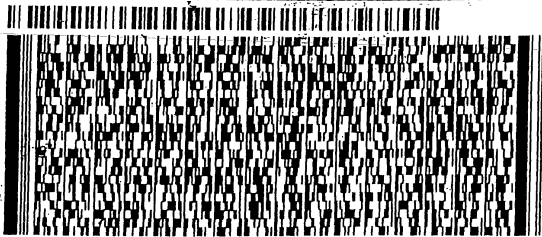
BILL RECIPIENT

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

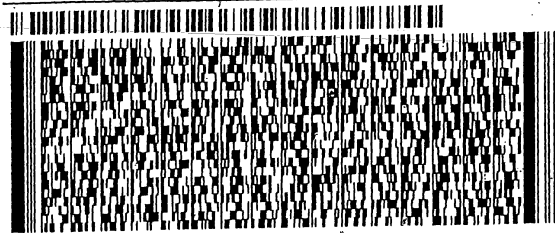
(802) 860-1980
PO: YES

REF: 8180-54754

DEPT: SAMPLE RECEIVING



FedEx
Express



FedEx
Exp



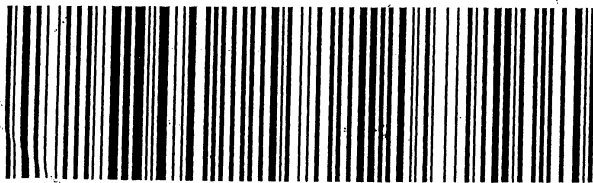
7 of 2
MPS# 4818 7135 1454
0263
Mstr# 4818 7135 1443

TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

0201

NL BTVA

05403
VT-US BTV

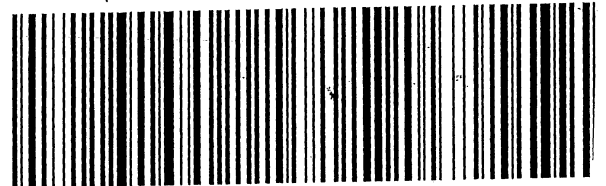


1 of 2
TRK# 4818 7135 1443
0201
MASTER

TUE - 24 SEP 10:
PRIORITY OVERNIGHT

NL BTVA

054
VT-US



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96046-1

Login Number: 96046

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96046-1

Login Number: 96046

List Number: 3

Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

List Creation: 09/24/19 01:14 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	4.9 ICE IRGUN #1
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96046-1

Login Number: 96046

List Number: 2

Creator: McNabb, Robert W

List Source: Eurofins TestAmerica, Burlington

List Creation: 09/24/19 11:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	2.0°C, 1.5°C
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?	N/A	Received project as a subcontract.
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-96046-2
Client Project/Site: CCR - Plant Watson

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
10/31/2019 9:39:18 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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.

PA Lab ID: 02-00416

Table of Contents

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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Job ID: 180-96046-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-96046-2

Comments

No additional comments.

Receipt

The samples were received on 9/21/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.3° C, 1.6° C, 1.6° C, 3.4° C and 3.4° C.

RAD

Method 9315: Radium-226 Prep Batch 160-444175

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7), DUP-02 (180-96046-8), (LCS 160-444175/2-B) and (MB 160-444175/22-A)

Method 9320: <Ra-228> Prep Batch 160-444178

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7), DUP-02 (180-96046-8), (LCS 160-444178/2-B) and (MB 160-444178/22-A)

Method PrecSep_0: Radium 228 Prep Batch 160-444175:

The following sample had cloudy discoloration:4D-GS (180-96046-1).

Method PrecSep_0: Radium 228 Prep Batch 160-444175:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision

Method PrecSep_0: Radium 228 Prep Batch 160-445767:

The following samples were prepared at a reduced aliquot due to limited volume for re-prep: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8). Sample 180-96046-D-1 had light yellow discoloration.

Method PrecSep_0: Radium 228 Prep Batch 160-445767:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-444175:

The following sample had cloudy discoloration:4D-GS (180-96046-1).

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Job ID: 180-96046-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Method PrecSep-21: Radium 226 Prep Batch 160-444175:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-445766:

The following samples were prepared at a reduced aliquot due to limited volume for re-prep: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8). Sample 180-96046-D-1 had light yellow discoloration.

Method PrecSep-21: Radium 226 Prep Batch 160-445766:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

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	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)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19
Iowa	State	373	09-17-20
Iowa	State Program	373	12-01-20
Kansas	NELAP	E-10236	10-31-19 *
Kentucky (DW)	State	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
Washington	State Program	C592	08-30-20
West Virginia DEP	State	381	10-31-19
West Virginia DEP	State Program	381	10-31-19 *

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

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-96046-1	4D-GS	Water	09/20/19 08:55	09/21/19 09:30	
180-96046-2	4A-GS	Water	09/20/19 11:05	09/21/19 09:30	
180-96046-3	3S-GS	Water	09/20/19 14:20	09/21/19 09:30	
180-96046-4	4B-GS	Water	09/20/19 10:19	09/21/19 09:30	
180-96046-5	6D-GS	Water	09/20/19 14:25	09/21/19 09:30	
180-96046-6	EB-01	Water	09/20/19 07:58	09/21/19 09:30	
180-96046-7	FB-01	Water	09/20/19 08:35	09/21/19 09:30	
180-96046-8	DUP-02	Water	09/20/19 12:00	09/21/19 09:30	



Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

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
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

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

Laboratory References:

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



Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: 4D-GS

Date Collected: 09/20/19 08:55

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.77 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:49	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.77 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:12	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 4A-GS

Date Collected: 09/20/19 11:05

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.33 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:49	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.33 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:12	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 3S-GS

Date Collected: 09/20/19 14:20

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.62 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:50	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.62 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:12	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 4B-GS

Date Collected: 09/20/19 10:19

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.32 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:50	KLS	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: 4B-GS

Date Collected: 09/20/19 10:19

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.32 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:12	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 6D-GS

Date Collected: 09/20/19 14:25

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.67 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:50	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.67 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:12	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-01

Date Collected: 09/20/19 07:58

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.04 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:50	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.04 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:13	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-01

Date Collected: 09/20/19 08:35

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.29 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:50	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.29 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:13	KLS	TAL SL
Instrument ID: GFPCPURPLE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: FB-01

Date Collected: 09/20/19 08:35

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL

Client Sample ID: DUP-02

Date Collected: 09/20/19 12:00

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.55 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:51	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.55 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:13	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

ORM = Octavia Moore

Batch Type: Analysis

KLS = Kody Saulters

SMP = Siobhan Perry

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: 4D-GS

Date Collected: 09/20/19 08:55

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-1

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	0.939		0.177	0.196	1.00	0.123	pCi/L	09/25/19 15:02	10/18/19 08:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					09/25/19 15:02	10/18/19 08:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.51		0.448	0.552	1.00	0.414	pCi/L	09/25/19 15:15	10/10/19 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					09/25/19 15:15	10/10/19 09:12	1
Y Carrier	87.1		40 - 110					09/25/19 15:15	10/10/19 09:12	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	4.45		0.482	0.586	5.00	0.414	pCi/L		10/28/19 08:20	1

Client Sample ID: 4A-GS

Date Collected: 09/20/19 11:05

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-2

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	1.09		0.191	0.215	1.00	0.116	pCi/L	09/25/19 15:02	10/18/19 08:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					09/25/19 15:02	10/18/19 08:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.18		0.382	0.431	1.00	0.404	pCi/L	09/25/19 15:15	10/10/19 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					09/25/19 15:15	10/10/19 09:12	1
Y Carrier	86.0		40 - 110					09/25/19 15:15	10/10/19 09:12	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: 4A-GS

Date Collected: 09/20/19 11:05

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-2

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	3.28		0.427	0.482	5.00	0.404	pCi/L		10/28/19 08:20	1

Client Sample ID: 3S-GS

Date Collected: 09/20/19 14:20

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-3

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	0.139		0.0863	0.0872	1.00	0.119	pCi/L	09/25/19 15:02	10/18/19 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					09/25/19 15:02	10/18/19 08:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.621		0.267	0.273	1.00	0.380	pCi/L	09/25/19 15:15	10/10/19 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					09/25/19 15:15	10/10/19 09:12	1
Y Carrier	81.5		40 - 110					09/25/19 15:15	10/10/19 09:12	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	0.759		0.281	0.287	5.00	0.380	pCi/L		10/28/19 08:20	1

Client Sample ID: 4B-GS

Date Collected: 09/20/19 10:19

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-4

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	0.261		0.0978	0.101	1.00	0.0969	pCi/L	09/25/19 15:02	10/18/19 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					09/25/19 15:02	10/18/19 08:50	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: 4B-GS

Lab Sample ID: 180-96046-4

Date Collected: 09/20/19 10:19

Matrix: Water

Date Received: 09/21/19 09:30

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.659		0.285	0.291	1.00	0.411	pCi/L	09/25/19 15:15	10/10/19 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					09/25/19 15:15	10/10/19 09:12	1
Y Carrier	82.6		40 - 110					09/25/19 15:15	10/10/19 09:12	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	0.921		0.301	0.308	5.00	0.411	pCi/L		10/28/19 08:20	1

Client Sample ID: 6D-GS

Lab Sample ID: 180-96046-5

Date Collected: 09/20/19 14:25

Matrix: Water

Date Received: 09/21/19 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.08		0.298	0.407	1.00	0.123	pCi/L	09/25/19 15:02	10/18/19 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		40 - 110					09/25/19 15:02	10/18/19 08:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.29		0.427	0.523	1.00	0.387	pCi/L	09/25/19 15:15	10/10/19 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		40 - 110					09/25/19 15:15	10/10/19 09:12	1
Y Carrier	86.7		40 - 110					09/25/19 15:15	10/10/19 09:12	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	6.37		0.521	0.663	5.00	0.387	pCi/L		10/28/19 08:20	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: EB-01

Lab Sample ID: 180-96046-6

Date Collected: 09/20/19 07:58

Matrix: Water

Date Received: 09/21/19 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00374	U	0.0607	0.0607	1.00	0.121	pCi/L	09/25/19 15:02	10/18/19 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					09/25/19 15:02	10/18/19 08:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.216	U	0.218	0.219	1.00	0.355	pCi/L	09/25/19 15:15	10/10/19 09:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					09/25/19 15:15	10/10/19 09:13	1
Y Carrier	90.1		40 - 110					09/25/19 15:15	10/10/19 09:13	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	0.226	0.227	5.00	0.355	pCi/L		10/28/19 08:20	1

Client Sample ID: FB-01

Lab Sample ID: 180-96046-7

Date Collected: 09/20/19 08:35

Matrix: Water

Date Received: 09/21/19 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0195	U	0.0533	0.0533	1.00	0.116	pCi/L	09/25/19 15:02	10/18/19 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					09/25/19 15:02	10/18/19 08:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.404		0.213	0.217	1.00	0.316	pCi/L	09/25/19 15:15	10/10/19 09:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					09/25/19 15:15	10/10/19 09:13	1
Y Carrier	89.7		40 - 110					09/25/19 15:15	10/10/19 09:13	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: FB-01

Lab Sample ID: 180-96046-7

Date Collected: 09/20/19 08:35

Matrix: Water

Date Received: 09/21/19 09:30

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	0.384		0.220	0.223	5.00	0.316	pCi/L		10/28/19 08:20	1

Client Sample ID: DUP-02

Lab Sample ID: 180-96046-8

Date Collected: 09/20/19 12:00

Matrix: Water

Date Received: 09/21/19 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.274		0.116	0.119	1.00	0.137	pCi/L	09/25/19 15:02	10/18/19 08:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					09/25/19 15:02	10/18/19 08:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.985		0.315	0.328	1.00	0.417	pCi/L	09/25/19 15:15	10/10/19 09:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					09/25/19 15:15	10/10/19 09:13	1
Y Carrier	81.9		40 - 110					09/25/19 15:15	10/10/19 09:13	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	1.26		0.336	0.349	5.00	0.417	pCi/L		10/28/19 08:20	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-444175/22-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444175

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.04546	U	0.0492	0.0494	1.00	0.122	pCi/L	09/25/19 15:02	10/18/19 10:43	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					09/25/19 15:02	10/18/19 10:43	1
	96.3									

Lab Sample ID: LCS 160-444175/2-B
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444175

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits		
				Uncert. (2σ+/-)							
Radium-226	11.4	9.442		1.00	1.00	0.137	pCi/L	83	75 - 125		
Carrier	LCS	LCS									
Ba Carrier	%Yield	Qualifier	Limits								
	95.8		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-444178/22-A
Matrix: Water
Analysis Batch: 445721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444178

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.5422		0.261	0.266	1.00	0.381	pCi/L	09/25/19 15:15	10/10/19 09:16	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					09/25/19 15:15	10/10/19 09:16	1
Y Carrier	84.9		40 - 110					09/25/19 15:15	10/10/19 09:16	1

Lab Sample ID: LCS 160-444178/2-B
Matrix: Water
Analysis Batch: 445720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444178

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits		
				Uncert. (2σ+/-)							
Radium-228	9.51	9.766		1.13	1.00	0.425	pCi/L	103	75 - 125		
Carrier	LCS	LCS									
Ba Carrier	%Yield	Qualifier	Limits								
Y Carrier	95.8		40 - 110								
	84.9		40 - 110								

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Rad

Prep Batch: 444175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	PrecSep-21	
180-96046-2	4A-GS	Total/NA	Water	PrecSep-21	
180-96046-3	3S-GS	Total/NA	Water	PrecSep-21	
180-96046-4	4B-GS	Total/NA	Water	PrecSep-21	
180-96046-5	6D-GS	Total/NA	Water	PrecSep-21	
180-96046-6	EB-01	Total/NA	Water	PrecSep-21	
180-96046-7	FB-01	Total/NA	Water	PrecSep-21	
180-96046-8	DUP-02	Total/NA	Water	PrecSep-21	
MB 160-444175/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-444175/2-B	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 444178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	PrecSep_0	
180-96046-2	4A-GS	Total/NA	Water	PrecSep_0	
180-96046-3	3S-GS	Total/NA	Water	PrecSep_0	
180-96046-4	4B-GS	Total/NA	Water	PrecSep_0	
180-96046-5	6D-GS	Total/NA	Water	PrecSep_0	
180-96046-6	EB-01	Total/NA	Water	PrecSep_0	
180-96046-7	FB-01	Total/NA	Water	PrecSep_0	
180-96046-8	DUP-02	Total/NA	Water	PrecSep_0	
MB 160-444178/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-444178/2-B	Lab Control Sample	Total/NA	Water	PrecSep_0	

Chain of Custody Record

Client Information Client Contact: Ms. Lauren Petty Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-5417(Tel) Email: lpetty@southernco.com Project Name: CCR - Plant Watson Special AP SOW#:		Lab PM: Veronica Bortot E-Mail: veronica.bortot@testamericainc.com Phone: 850-336-6092 PO #: SCS10382606 WO #:		Sampler: <i>Rick Alexander / Bradd</i> Lab PM: Veronica Bortot E-Mail: veronica.bortot@testamericainc.com Phone: 850-336-6092		Carner Tracking No(s): COC No: 180-54585-11376.2 Page: Page 2 of 3 Job #:			
Analysis Requested Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 18020186 SOW#:				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 L - EDA Other:				Special Instructions/Note: Total Number of Containers:	
Sample Identification Sample ID: 4D-GS 4A-GS 3S-GS 4B-GS 6D-GS GB-01 FB-01 Dup-02 Sample Date: 9-20-19 Sample Time: 0855 1105 1420 1019 1425 0758 0835 1200 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, BT=Tissue, AA=Air): Water		Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): 9315_Ra226_9320_Ra228 220B_2540C_CalcI_SM4500_H+ 6020_7470A 350.1_351.2_Pres_4500_P_E 300_ORGFMS - ortho Phos Bromide, Cl, SO4, F 5310C - TOC 2540D - TSS RSK_175_CO2 - CarbonDioxide 1664B - Oil and Grease		Special Instructions/Note: Total Number of Containers:		Barcode: 180-96046 Chain of Custody			
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:		Method of Shipment:		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			
Relinquished by: <i>[Signature]</i>		Date: 9-20-19 1659		Received by: <i>[Signature]</i>		Date/Time: 9/21/19 0930			
Relinquished by:		Date/Time:		Received by:		Date/Time:			
Relinquished by:		Date/Time:		Received by:		Date/Time:			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Company: <i>[Signature]</i>			





151967 REV 7/08 RRD

av Delivery

Uncorrected temp
Thermometer ID 2.4
10

CF 0 Initials B

PT-WI-SR-001 effective 11/8/18

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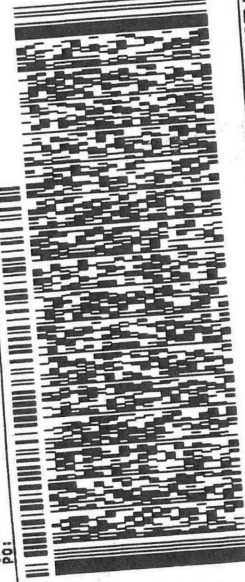
Part # 156207 2825 12/19

SHIP DATE: 20SEP19
ACTWT: 57.40 LB
CAD: 6993800/SSFE2021
DIMS: 24x13x14 IN
BILL THIRD PARTY

ORIGIN ID: BIXA (850) 336-0192
RICK HAGENDORFER
RDH ENVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

TO
SAMPLE CONTROL
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(565) 666-6666
REF: (565) 666-6666
DEPT: 1101



SATURDAY 12:00P
PRIORITY OVERNIGHT

2 of 5
MPS# 7899 5620 3440
0263
Mistr# 7899 5620 3430

0201

XO AGCA

15238
PA-US
PI



Uncorrected temp
Thermometer ID

CF 0 Initials IS

PT-WI-SR-001 effective 11/8/18

RT 639
ST 6
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Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 398-0192
RICK HASENDORFER

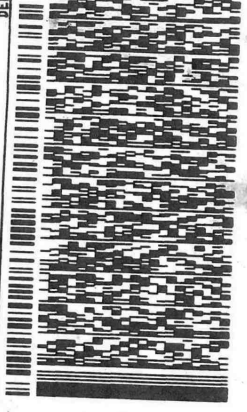
RDH ENVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

SHIP DATE: 20SEF19
ACT WT: 5.30 LB
CAD: 699300/3SFE2021
DIMS: 24x19x14 IN
BILL THIRD PARTY

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(556) 565-5566
REF: 101
P01

DEPT:



11292019062401 01

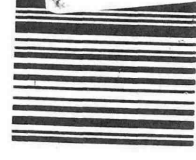
3 of 5
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# **7899 5620 3451**
0263
Met# **7899 5620 5430**
0201

XO AGCA

15238
PA-US
PIT

Uncorrected temp
Thermometer ID



CF 0 Initials B

2.4 °C
1.0

PT-WI-SR-001 effective 11/8/18

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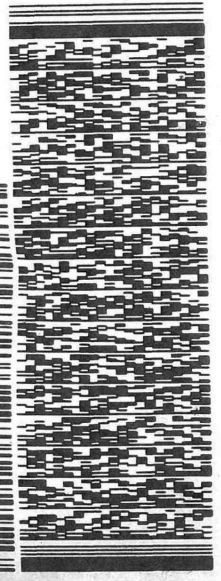
398-0192

ORIGIN: RICK HAGE RDH EVIRONMENTAL 5720 DOVE DR PACE, FL 32571 UNITED STATES US

SHIP DATE: 20SEP19
ACT WT: 85.50 LB
CMB: 5989800/58FE2021
DIM: 24x13x14 IN
BILL THIRD PARTY

TO SAMPLE CONTROL
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

REF: (555) 555-5555 DEPT: (555) 555-5555



4 of 5
SATURDAY 12:00P
PRIORITY OVERNIGHT
15238
PA-US PIT

MPS# 7899 5620 3462
Mstr# 7899 5620 3480

XO AGCA

Uncorrected temp Thermometer ID
CF 0 Initials JB
PT-WI-SR-001 effective 11/8/18

A 5 12:00 3462 09.21

RT 639 ST 6

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ORIGIN ID: BIXA (850) 336-0192
RICK HAGENDORFER

SHIP DATE: 20SEP19
ACTWTG: 70.10 LB
CAD: 6993800/SSFE2021
DIMS: 24x13x14 IN

RDH ENVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

BILL THIRD PARTY

TO **SAMPLE CONTROL
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238**

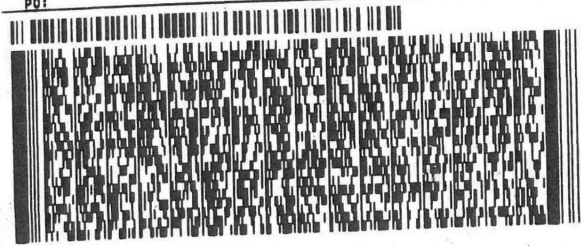
(666) 555-5555

REF:

DEPT:

INU:

PO:



FedEx
Express



5 of 5
MPS# 7899 5620 3473
0263
Metr# 7899 5620 3430

**SATURDAY 12:00
PRIORITY OVERNIGHT**

XO AGCA

0201

15238
PA-US RT

Uncorrected temp
Thermometer ID

1.6 °C
10

CF 6 Initials B

PT-WI-SR-001 effective 11/8/18



RT 639
ST 6
5
12:00
A
3473
09/21

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96046-2

Login Number: 96046

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96046-2

Login Number: 96046
List Number: 4
Creator: Harris, Lorin C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 09/24/19 05:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
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.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-96077-1
Client Project/Site: CCR - Plant Watson

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
10/24/2019 4:43:47 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

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www.testamericainc.com

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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Job ID: 180-96077-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-96077-1

Comments

No additional comments.

Receipt

The samples were received on 9/24/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.5° C, 1.6° C, 1.8° C and 4.0° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 5D-GS (180-96077-2). The container labels for the toc containers only list a sample id of 5D-GR, while the COC lists 5D-GS. The id on the COC was used.

GC VOA

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

GC Semi VOA

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

Metals

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

General Chemistry

Method SM 5310C: The RPD between the duplicate analyses was >10%. The difference between the results was less than the reporting limit; therefore the results are reported with this NCM.

7D-GS (180-96077-3)

Method SM 5310C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 180-294581. LCS/LCSD analyzed.

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 5S-GS (180-96077-1), 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4), FB-02 (180-96077-5), EB-02 (180-96077-6) and DUP-03 (180-96077-7).

Method SM 2320B: Due to the high concentration of alkalinity, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 480-495181 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 351.2: The inter-parameter relationship does not meet acceptable criteria. Reanalysis was preformed, and the results confirmed.

6S-GS (180-96077-4), FB-02 (180-96077-5) and EB-02 (180-96077-6)

Method SM 2540C: Reanalysis of the following samples were performed outside of the analytical holding time due to first result was over-residue; both results are reported : 5S-GS (180-96077-1), 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4) and DUP-03 (180-96077-7).

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 5S-GS (180-96077-1), 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4) and DUP-03 (180-96077-7). The reporting limits (RLs) have been adjusted proportionately.

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Job ID: 180-96077-1 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

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

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Qualifiers

GC VOA

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.

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.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
California	State	2931	04-01-20
Connecticut	State	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	03-31-20
Georgia	State Program	10026 (NY)	03-31-20
Georgia (DW)	State	956	03-31-20
Iowa	State	374	02-28-21
Kansas	NELAP	E-10187	01-31-20
Kentucky (DW)	State	90029	12-31-20
Kentucky (UST)	State	30	03-31-20
Kentucky (UST)	State Program	30	03-31-20
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-05-20
Maine	State Program	NY00044	12-04-20
Maryland	State	294	03-31-20
Massachusetts	State	M-NY044	06-30-20
Massachusetts	State Program	M-NY044	06-30-20
Michigan	State	9937	03-31-20
Minnesota	NELAP	1524384	12-31-19
New Hampshire	NELAP	2337	11-17-19 *
New Hampshire	NELAP	2337	11-17-19
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-01-20
North Dakota	State	R-176	03-31-20
Oklahoma	State	9421	09-01-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Rhode Island	State	LAO00328	12-30-20
Tennessee	State	02970	03-31-20
Texas	NELAP	T104704412-18-10	08-01-20
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Virginia	NELAP	460185	09-14-20
Washington	State	C784	02-10-20
Wisconsin	State	998310390	08-31-20

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

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-20
Connecticut	State	PH-0751	09-30-19 *
Connecticut	State Program	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-19
New Hampshire	NELAP	2006	12-18-19
New Hampshire	NELAP	2006	10-18-19
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	03-31-20
Pennsylvania	NELAP	68-00489	04-30-20
Rhode Island	State	LAO00298	12-30-19
Rhode Island	State Program	LAO00298	12-30-19
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-19
Virginia	NELAP	460209	12-14-19

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

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-96077-1	5S-GS	Water	09/23/19 10:00	09/24/19 09:45	
180-96077-2	5D-GS	Water	09/23/19 12:20	09/24/19 09:45	
180-96077-3	7D-GS	Water	09/23/19 11:20	09/24/19 09:45	
180-96077-4	6S-GS	Water	09/23/19 14:14	09/24/19 09:45	
180-96077-5	FB-02	Water	09/23/19 08:50	09/24/19 09:45	
180-96077-6	EB-02	Water	09/23/19 09:06	09/24/19 09:45	
180-96077-7	DUP-03	Water	09/23/19 07:00	09/24/19 09:45	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL BUR
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2340B	Total Hardness (as CaCO ₃) by calculation	SM	TAL PIT
1664B	HEM and SGT-HEM	1664B	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PIT
SM 4500 CO ₂ B	Free Carbon Dioxide	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF
SM 5310C	Total Organic Carbon	SM	TAL PIT
1664B	HEM and SGT-HEM (Aqueous)	1664B	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
7470A	Preparation, Mercury	SW846	TAL PIT
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

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

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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 BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 5S-GS

Lab Sample ID: 180-96077-1

Date Collected: 09/23/19 10:00

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147746	09/25/19 19:24	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292385	09/24/19 13:01	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292385	09/24/19 13:46	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293749	10/03/19 15:53	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293883	10/04/19 13:51	WTR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293908	10/05/19 17:21	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:23	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			294117	10/08/19 11:47	MM1	TAL PIT
Total/NA	Prep	1664B			968 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494980	09/30/19 13:45	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	495213	10/01/19 13:03	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495571	10/02/19 19:49	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495816	10/03/19 10:15	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494814	09/29/19 14:24	RLM	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 22:05	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495439	10/02/19 11:52	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 21:05	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genysis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 5S-GS

Date Collected: 09/23/19 10:00

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5310C		1			294581	10/10/19 17:51	TAM	TAL PIT

Client Sample ID: 5D-GS

Date Collected: 09/23/19 12:20

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147746	09/25/19 19:33	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292385	09/24/19 14:01	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292385	09/24/19 14:16	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293749	10/03/19 15:56	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293883	10/04/19 13:54	WTR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293908	10/05/19 17:25	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:25	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			294117	10/08/19 11:47	MM1	TAL PIT
Total/NA	Prep	1664B			981 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494980	09/30/19 13:45	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		5	5 mL	5 mL	495217	10/01/19 13:31	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495571	10/02/19 19:49	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495816	10/03/19 10:15	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494814	09/29/19 14:25	RLM	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator		1	25 mL	25 mL	496193	10/05/19 00:36	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495439	10/02/19 11:52	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 5D-GS

Lab Sample ID: 180-96077-2

Date Collected: 09/23/19 12:20

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 CO2 B		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 21:11	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genysis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294581	10/10/19 18:06	TAM	TAL PIT

Client Sample ID: 7D-GS

Lab Sample ID: 180-96077-3

Date Collected: 09/23/19 11:20

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147746	09/25/19 19:41	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292385	09/24/19 14:31	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292385	09/24/19 14:46	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293749	10/03/19 16:06	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293883	10/04/19 13:58	WTR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293908	10/05/19 17:28	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:26	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			294117	10/08/19 11:47	MM1	TAL PIT
Total/NA	Prep	1664B			972 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494980	09/30/19 13:45	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		5	5 mL	5 mL	495213	10/01/19 13:16	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495571	10/02/19 19:49	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495816	10/03/19 10:15	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LCHAT3		1	5 mL	5 mL	494814	09/29/19 14:26	RLM	TAL BUF

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 7D-GS

Lab Sample ID: 180-96077-3

Date Collected: 09/23/19 11:20

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	496193	10/05/19 00:43	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495439	10/02/19 11:52	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 21:13	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genysis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294581	10/10/19 18:21	TAM	TAL PIT

Client Sample ID: 6S-GS

Lab Sample ID: 180-96077-4

Date Collected: 09/23/19 14:14

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147746	09/25/19 19:50	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292385	09/24/19 15:01	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292385	09/24/19 15:16	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293749	10/03/19 16:10	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293883	10/04/19 14:01	WTR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293908	10/05/19 17:31	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:27	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			294117	10/08/19 11:47	MM1	TAL PIT
Total/NA	Prep	1664B			958 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494980	09/30/19 13:45	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		5	5 mL	5 mL	495217	10/01/19 13:33	CLT	TAL BUF

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 6S-GS

Lab Sample ID: 180-96077-4

Date Collected: 09/23/19 14:14

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			25 mL	25 mL	495838	10/03/19 18:05	LAW	TAL BUF
Total/NA	Analysis	351.2		1			496240	10/06/19 14:05	KEB	TAL BUF
		Instrument ID: KONE1								
Total/NA	Analysis	353.2		1	5 mL	5 mL	494814	09/29/19 14:27	RLM	TAL BUF
		Instrument ID: LACHAT3								
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	496193	10/05/19 01:25	AEF	TAL BUF
		Instrument ID: PC_Titrator								
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	495439	10/02/19 11:52	CSS	TAL BUF
		Instrument ID: Balance-1								
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 CO2 B		1			499249	10/21/19 13:52	MTM2	TAL BUF
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1			495182	09/30/19 21:16	AEF	TAL BUF
		Instrument ID: PC_Titrator								
Total/NA	Analysis	SM 4500 P E		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
		Instrument ID: Genysis Spec3								
Total/NA	Analysis	SM 5310C		1			294581	10/10/19 18:36	TAM	TAL PIT
		Instrument ID: TOC1030								

Client Sample ID: FB-02

Lab Sample ID: 180-96077-5

Date Collected: 09/23/19 08:50

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	147746	09/25/19 19:59	MLT	TAL BUR
		Instrument ID: CH1031.i								
Total/NA	Analysis	EPA 300.0 R2.1		1			292385	09/24/19 16:00	CMR	TAL PIT
		Instrument ID: CHICS2000								
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293749	10/03/19 16:13	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293883	10/04/19 14:04	WTR	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293908	10/05/19 17:35	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 12:28	RJR	TAL PIT
		Instrument ID: HGY								
Total Recoverable	Analysis	SM 2340B		1			294117	10/08/19 11:47	MM1	TAL PIT
		Instrument ID: NOEQUIP								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: FB-02

Lab Sample ID: 180-96077-5

Date Collected: 09/23/19 08:50

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664B			958 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B		1			494980	09/30/19 13:45	CRK	TAL BUF
Instrument ID: NOEQUIP										
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1		1	5 mL	5 mL	495213	10/01/19 13:07	CLT	TAL BUF
Instrument ID: LACHAT1										
Total/NA	Prep	351.2			25 mL	25 mL	495838	10/03/19 18:05	LAW	TAL BUF
Total/NA	Analysis	351.2		1			496240	10/06/19 14:05	KEB	TAL BUF
Instrument ID: KONE1										
Total/NA	Analysis	353.2		1	5 mL	5 mL	494814	09/29/19 14:29	RLM	TAL BUF
Instrument ID: LACHAT3										
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	496193	10/05/19 01:12	AEF	TAL BUF
Instrument ID: PC_Titrator										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	494505	09/27/19 09:27	CSS	TAL BUF
Instrument ID: Balance-1										
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 CO2 B		1			499249	10/21/19 13:52	MTM2	TAL BUF
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1			495182	09/30/19 21:19	AEF	TAL BUF
Instrument ID: PC_Titrator										
Total/NA	Analysis	SM 4500 P E		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Instrument ID: Genysis Spec3										
Total/NA	Analysis	SM 5310C		1			294581	10/10/19 18:50	TAM	TAL PIT
Instrument ID: TOC1030										

Client Sample ID: EB-02

Lab Sample ID: 180-96077-6

Date Collected: 09/23/19 09:06

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	147746	09/25/19 20:08	MLT	TAL BUR
Instrument ID: CH1031.i										
Total/NA	Analysis	EPA 300.0 R2.1		1			292385	09/24/19 16:45	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293749	10/03/19 16:16	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293883	10/04/19 14:15	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 12:29	RJR	TAL PIT
Instrument ID: HGY										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: EB-02
Date Collected: 09/23/19 09:06
Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	SM 2340B		1			294117	10/08/19 11:47	MM1	TAL PIT
Total/NA	Prep	1664B			957 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B		1			494980	09/30/19 13:45	CRK	TAL BUF
		Instrument ID: NOEQUIP								
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1		10	5 mL	5 mL	495217	10/01/19 13:34	CLT	TAL BUF
		Instrument ID: LACHAT1								
Total/NA	Prep	351.2			25 mL	25 mL	495838	10/03/19 18:05	LAW	TAL BUF
Total/NA	Analysis	351.2		1			496240	10/06/19 14:05	KEB	TAL BUF
		Instrument ID: KONE1								
Total/NA	Analysis	353.2		1	5 mL	5 mL	494814	09/29/19 14:30	RLM	TAL BUF
		Instrument ID: LACHAT3								
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	496193	10/05/19 01:36	AEF	TAL BUF
		Instrument ID: PC_Titrator								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	494505	09/27/19 09:27	CSS	TAL BUF
		Instrument ID: Balance-1								
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 CO2 B		1			499249	10/21/19 13:52	MTM2	TAL BUF
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1			495182	09/30/19 21:22	AEF	TAL BUF
		Instrument ID: PC_Titrator								
Total/NA	Analysis	SM 4500 P E		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
		Instrument ID: Genysis Spec3								
Total/NA	Analysis	SM 5310C		1			294581	10/10/19 19:34	TAM	TAL PIT
		Instrument ID: TOC1030								

Client Sample ID: DUP-03
Date Collected: 09/23/19 07:00
Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	147746	09/25/19 20:16	MLT	TAL BUR
		Instrument ID: CH1031.i								
Total/NA	Analysis	EPA 300.0 R2.1		25			292385	09/24/19 15:31	CMR	TAL PIT
		Instrument ID: CHICS2000								
Total/NA	Analysis	EPA 300.0 R2.1		250			292385	09/24/19 15:46	CMR	TAL PIT
		Instrument ID: CHICS2000								
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293749	10/03/19 16:20	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		10			293883	10/04/19 14:18	WTR	TAL PIT
		Instrument ID: A								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: DUP-03

Lab Sample ID: 180-96077-7

Date Collected: 09/23/19 07:00

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:33	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			294117	10/08/19 11:47	MM1	TAL PIT
Total/NA	Prep	1664B			960 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494980	09/30/19 13:45	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		5	5 mL	5 mL	495217	10/01/19 13:34	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495837	10/03/19 18:05	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			496240	10/06/19 12:23	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494814	09/29/19 14:31	RLM	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator		1	25 mL	25 mL	496193	10/05/19 01:44	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495439	10/02/19 11:52	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 21:25	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genysis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294581	10/10/19 19:49	TAM	TAL PIT

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Analyst References:

Lab: TAL BUF

Batch Type: Prep

CLT = Christine Thomas

CRK = Christian Kriner

LAW = Larry Wolfe

Batch Type: Analysis

AEF = Alex Fritz

CLT = Christine Thomas

CRK = Christian Kriner

CSS = Chandler Stone

KEB = Katherine Bauer

MTM2 = Michael Mosscrop

RLM = Rachel Molino

RP = Rosemary Pietras

Lab: TAL BUR

Batch Type: Analysis

MLT = Melissa Tice

Lab: TAL PIT

Batch Type: Prep

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

Batch Type: Analysis

AGP = Angela Partridge

CMR = Carl Reagle

MM1 = Mary Beth Miller

RJR = Ron Rosenbaum

RSK = Robert Kurtz

TAM = Tessa Mastalski

WTR = Bill Reinheimer

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 5S-GS

Lab Sample ID: 180-96077-1

Date Collected: 09/23/19 10:00

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 19:24	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/24/19 13:46	25
Nitrite as N	2.4		1.3	0.72	mg/L			09/24/19 13:46	25
Fluoride	<0.66		2.5	0.66	mg/L			09/24/19 13:46	25
Chloride	6300		250	180	mg/L			09/24/19 13:01	250
Bromide	21		13	2.2	mg/L			09/24/19 13:46	25
Sulfate	1200		25	9.5	mg/L			09/24/19 13:46	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/24/19 13:46	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0016	J	0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 15:53	1
Aluminum	0.093		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 15:53	1
Arsenic	0.16		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 15:53	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 15:53	1
Boron	18		0.80	0.39	mg/L		09/28/19 06:32	10/05/19 17:21	10
Cadmium	0.00070	J	0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 15:53	1
Barium	0.13		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 15:53	1
Chromium	0.0024		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 15:53	1
Copper	0.00078	J	0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 15:53	1
Calcium	740		0.50	0.13	mg/L		09/28/19 06:32	10/03/19 15:53	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 15:53	1
Nickel	0.015		0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 15:53	1
Cobalt	0.00049	J	0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 15:53	1
Selenium	0.0023	J	0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 15:53	1
Thallium	0.0014		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 15:53	1
Zinc	0.0035	J	0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 15:53	1
Iron	0.044	J	0.050	0.020	mg/L		09/28/19 06:32	10/03/19 15:53	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 15:53	1
Potassium	150		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 15:53	1
Magnesium	37		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 15:53	1
Manganese	0.052		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 15:53	1
Molybdenum	3.4		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 15:53	1
Sodium	2700		5.0	3.5	mg/L		09/28/19 06:32	10/04/19 13:51	10
Strontium	9.1		0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 15:53	1
Titanium	0.0033	J	0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 15:53	1
Vanadium	0.0062		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 15:53	1
SiO2, Silica	4.0		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 15:53	1
Lithium	0.14		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 15:53	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:23	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	2000		0.67	0.022	mg/L			10/08/19 11:47	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 5S-GS

Lab Sample ID: 180-96077-1

Date Collected: 09/23/19 10:00

Matrix: Water

Date Received: 09/24/19 09:45

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	1800		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	150		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.1	J B	5.2	1.4	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	1.7	B	0.20	0.10	mg/L		10/01/19 06:45	10/01/19 13:03	1
Total Kjeldahl Nitrogen	1.8		0.20	0.15	mg/L		10/02/19 19:49	10/03/19 10:15	1
Nitrate Nitrite as N	0.042	J	0.050	0.020	mg/L			09/29/19 14:24	1
Alkalinity, Total	48		5.0	0.79	mg/L			09/30/19 22:05	1
Alkalinity, Bicarbonate	35		5.0	0.79	mg/L			09/30/19 22:05	1
Alkalinity, Carbonate	14		5.0	0.79	mg/L			09/30/19 22:05	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 22:05	1
Total Dissolved Solids	6900	H	100	40	mg/L			10/02/19 11:52	1
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	0.20		0.10	0.10	mg/L			10/21/19 13:52	1
pH	8.5	HF	0.1	0.1	SU			09/30/19 21:05	1
Temperature	19.2	HF	0.001	0.001	Degrees C			09/30/19 21:05	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	0.94	J	1.0	0.51	mg/L			10/10/19 17:51	1

Client Sample ID: 5D-GS

Lab Sample ID: 180-96077-2

Date Collected: 09/23/19 12:20

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	140000		5000	1800	ug/L			09/25/19 19:33	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/24/19 14:01	25
Nitrite as N	2.5		1.3	0.72	mg/L			09/24/19 14:01	25
Fluoride	<0.66		2.5	0.66	mg/L			09/24/19 14:01	25
Chloride	2900		250	180	mg/L			09/24/19 14:16	250
Bromide	24		13	2.2	mg/L			09/24/19 14:01	25
Sulfate	1000		25	9.5	mg/L			09/24/19 14:01	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/24/19 14:01	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 15:56	1
Aluminum	<0.013		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 15:56	1
Arsenic	0.0045		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 15:56	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 15:56	1
Boron	13		0.80	0.39	mg/L		09/28/19 06:32	10/05/19 17:25	10
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 15:56	1
Barium	0.21		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 15:56	1
Chromium	0.0017	J	0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 5D-GS

Lab Sample ID: 180-96077-2

Date Collected: 09/23/19 12:20

Matrix: Water

Date Received: 09/24/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 15:56	1
Calcium	320		0.50	0.13	mg/L		09/28/19 06:32	10/03/19 15:56	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 15:56	1
Nickel	0.00051	J	0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 15:56	1
Cobalt	0.00026	J	0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 15:56	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 15:56	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 15:56	1
Zinc	0.0038	J	0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 15:56	1
Iron	75		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 15:56	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 15:56	1
Potassium	76		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 15:56	1
Magnesium	180		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 15:56	1
Manganese	0.92		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 15:56	1
Molybdenum	0.0028	J	0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 15:56	1
Sodium	2000		5.0	3.5	mg/L		09/28/19 06:32	10/04/19 13:54	10
Strontium	2.8		0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 15:56	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 15:56	1
Vanadium	0.0019		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 15:56	1
SiO2, Silica	31		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 15:56	1
Lithium	0.034		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 15:56	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:25	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1500		0.67	0.022	mg/L			10/08/19 11:47	1
Calcium hardness as calcium carbonate	800		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	730		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.1	J B	5.1	1.4	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	4.6	B	1.0	0.50	mg/L		10/01/19 06:45	10/01/19 13:31	5
Total Kjeldahl Nitrogen	4.6		0.20	0.15	mg/L		10/02/19 19:49	10/03/19 10:15	1
Nitrate Nitrite as N	0.031	J	0.050	0.020	mg/L			09/29/19 14:25	1
Alkalinity, Total	280		5.0	0.79	mg/L			10/05/19 00:36	1
Alkalinity, Bicarbonate	280		5.0	0.79	mg/L			10/05/19 00:36	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 00:36	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 00:36	1
Total Dissolved Solids	4700	H	100	40	mg/L			10/02/19 11:52	1
Total Suspended Solids	81		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	80		0.10	0.10	mg/L			10/21/19 13:52	1
pH	6.8	HF	0.1	0.1	SU			09/30/19 21:11	1
Temperature	18.8	HF	0.001	0.001	Degrees C			09/30/19 21:11	1
Phosphorus	0.046		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	3.0		1.0	0.51	mg/L			10/10/19 18:06	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 7D-GS

Lab Sample ID: 180-96077-3

Date Collected: 09/23/19 11:20

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	8600		5000	1800	ug/L			09/25/19 19:41	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/24/19 14:31	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/24/19 14:31	25
Fluoride	0.66	J	2.5	0.66	mg/L			09/24/19 14:31	25
Chloride	5200		250	180	mg/L			09/24/19 14:46	250
Bromide	18		13	2.2	mg/L			09/24/19 14:31	25
Sulfate	860		25	9.5	mg/L			09/24/19 14:31	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/24/19 14:31	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 16:06	1
Aluminum	0.033		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 16:06	1
Arsenic	0.0025		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 16:06	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:06	1
Boron	20		0.80	0.39	mg/L		09/28/19 06:32	10/05/19 17:28	10
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:06	1
Barium	0.23		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 16:06	1
Chromium	0.0024		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 16:06	1
Copper	0.00070	J	0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 16:06	1
Calcium	650		0.50	0.13	mg/L		09/28/19 06:32	10/03/19 16:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:06	1
Nickel	0.00065	J	0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 16:06	1
Cobalt	0.00038	J	0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 16:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 16:06	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 16:06	1
Zinc	0.0047	J	0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 16:06	1
Iron	2.9		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 16:06	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:06	1
Potassium	100		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 16:06	1
Magnesium	61		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 16:06	1
Manganese	0.14		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 16:06	1
Molybdenum	0.0090		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 16:06	1
Sodium	2300		5.0	3.5	mg/L		09/28/19 06:32	10/04/19 13:58	10
Strontium	7.4		0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 16:06	1
Titanium	0.0029	J	0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 16:06	1
Vanadium	0.0018		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 16:06	1
SiO2, Silica	11		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 16:06	1
Lithium	0.038		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 16:06	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:26	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1900		0.67	0.022	mg/L			10/08/19 11:47	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 7D-GS

Lab Sample ID: 180-96077-3

Date Collected: 09/23/19 11:20

Matrix: Water

Date Received: 09/24/19 09:45

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	1600		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	250		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	5.8	B	5.1	1.4	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	5.4		1.0	0.50	mg/L		10/01/19 06:45	10/01/19 13:16	5
Total Kjeldahl Nitrogen	4.5		0.20	0.15	mg/L		10/02/19 19:49	10/03/19 10:15	1
Nitrate Nitrite as N	0.027	J	0.050	0.020	mg/L			09/29/19 14:26	1
Alkalinity, Total	300		5.0	0.79	mg/L			10/05/19 00:43	1
Alkalinity, Bicarbonate	300		5.0	0.79	mg/L			10/05/19 00:43	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 00:43	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 00:43	1
Total Dissolved Solids	5900	H	100	40	mg/L			10/02/19 11:52	1
Total Suspended Solids	9.2		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	7.5		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.9	HF	0.1	0.1	SU			09/30/19 21:13	1
Temperature	18.6	HF	0.001	0.001	Degrees C			09/30/19 21:13	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	3.0		1.0	0.51	mg/L			10/10/19 18:21	1

Client Sample ID: 6S-GS

Lab Sample ID: 180-96077-4

Date Collected: 09/23/19 14:14

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	2300	J	5000	1800	ug/L			09/25/19 19:50	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/24/19 15:01	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/24/19 15:01	25
Fluoride	<0.66		2.5	0.66	mg/L			09/24/19 15:01	25
Chloride	4500		250	180	mg/L			09/24/19 15:16	250
Bromide	15		13	2.2	mg/L			09/24/19 15:01	25
Sulfate	480		25	9.5	mg/L			09/24/19 15:01	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/24/19 15:01	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00085	J	0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 16:10	1
Aluminum	0.069		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 16:10	1
Arsenic	1.6		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 16:10	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:10	1
Boron	17		0.80	0.39	mg/L		09/28/19 06:32	10/05/19 17:31	10
Cadmium	0.0011		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:10	1
Barium	0.78		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 16:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 16:10	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 6S-GS

Lab Sample ID: 180-96077-4

Date Collected: 09/23/19 14:14

Matrix: Water

Date Received: 09/24/19 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 16:10	1
Calcium	530		0.50	0.13	mg/L		09/28/19 06:32	10/03/19 16:10	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:10	1
Nickel	0.0020		0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 16:10	1
Cobalt	0.00032	J	0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 16:10	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 16:10	1
Thallium	0.00021	J	0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 16:10	1
Zinc	0.0042	J	0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 16:10	1
Iron	0.49		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 16:10	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:10	1
Potassium	120		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 16:10	1
Magnesium	32		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 16:10	1
Manganese	0.17		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 16:10	1
Molybdenum	5.6		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 16:10	1
Sodium	1800		5.0	3.5	mg/L		09/28/19 06:32	10/04/19 14:01	10
Strontium	7.0		0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 16:10	1
Titanium	0.0033	J	0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 16:10	1
Vanadium	0.0018		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 16:10	1
SiO2, Silica	6.1		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 16:10	1
Lithium	0.29		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 16:10	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:27	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1500		0.67	0.022	mg/L			10/08/19 11:47	1
Calcium hardness as calcium carbonate	1300		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	130		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	1.6	J B	5.2	1.5	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	4.9	B	1.0	0.50	mg/L		10/01/19 06:45	10/01/19 13:33	5
Total Kjeldahl Nitrogen	3.2		0.20	0.15	mg/L		10/03/19 18:05	10/06/19 14:05	1
Nitrate Nitrite as N	0.067		0.050	0.020	mg/L			09/29/19 14:27	1
Alkalinity, Total	73		5.0	0.79	mg/L			10/05/19 01:25	1
Alkalinity, Bicarbonate	73		5.0	0.79	mg/L			10/05/19 01:25	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:25	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 01:25	1
Total Dissolved Solids	5000	H	100	40	mg/L			10/02/19 11:52	1
Total Suspended Solids	1.3		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	1.2		0.10	0.10	mg/L			10/21/19 13:52	1
pH	8.1	HF	0.1	0.1	SU			09/30/19 21:16	1
Temperature	18.4	HF	0.001	0.001	Degrees C			09/30/19 21:16	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	1.4		1.0	0.51	mg/L			10/10/19 18:36	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: FB-02

Lab Sample ID: 180-96077-5

Date Collected: 09/23/19 08:50

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 19:59	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/24/19 16:00	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/24/19 16:00	1
Fluoride	<0.026		0.10	0.026	mg/L			09/24/19 16:00	1
Chloride	<0.71		1.0	0.71	mg/L			09/24/19 16:00	1
Bromide	<0.087		0.50	0.087	mg/L			09/24/19 16:00	1
Sulfate	<0.38		1.0	0.38	mg/L			09/24/19 16:00	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/24/19 16:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 16:13	1
Aluminum	<0.013		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 16:13	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 16:13	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:13	1
Boron	0.079	J	0.080	0.039	mg/L		09/28/19 06:32	10/05/19 17:35	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:13	1
Barium	<0.0016		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 16:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 16:13	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 16:13	1
Calcium	0.15	J	0.50	0.13	mg/L		09/28/19 06:32	10/03/19 16:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:13	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 16:13	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 16:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 16:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 16:13	1
Zinc	0.0037	J	0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 16:13	1
Iron	<0.020		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 16:13	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:13	1
Potassium	<0.16		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 16:13	1
Magnesium	<0.083		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 16:13	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 16:13	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 16:13	1
Sodium	0.38	J	0.50	0.35	mg/L		09/28/19 06:32	10/04/19 14:04	1
Strontium	0.0013	J	0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 16:13	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 16:13	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 16:13	1
SiO2, Silica	<0.28		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 16:13	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 16:13	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:28	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	0.38	J	0.67	0.022	mg/L			10/08/19 11:47	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: FB-02

Lab Sample ID: 180-96077-5

Date Collected: 09/23/19 08:50

Matrix: Water

Date Received: 09/24/19 09:45

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	0.38		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	<0.0048		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.0	J B	5.2	1.5	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	0.53	B	0.20	0.10	mg/L		10/01/19 06:45	10/01/19 13:07	1
Total Kjeldahl Nitrogen	0.17	J	0.20	0.15	mg/L		10/03/19 18:05	10/06/19 14:05	1
Nitrate Nitrite as N	0.024	J	0.050	0.020	mg/L			09/29/19 14:29	1
Alkalinity, Total	<0.79		5.0	0.79	mg/L			10/05/19 01:12	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:12	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:12	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 01:12	1
Total Dissolved Solids	160		10	4.0	mg/L			09/27/19 09:27	1
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	2.1		0.10	0.10	mg/L			10/21/19 13:52	1
pH	5.9	HF	0.1	0.1	SU			09/30/19 21:19	1
Temperature	18.5	HF	0.001	0.001	Degrees C			09/30/19 21:19	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/10/19 18:50	1

Client Sample ID: EB-02

Lab Sample ID: 180-96077-6

Date Collected: 09/23/19 09:06

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 20:08	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/24/19 16:45	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/24/19 16:45	1
Fluoride	<0.026		0.10	0.026	mg/L			09/24/19 16:45	1
Chloride	<0.71		1.0	0.71	mg/L			09/24/19 16:45	1
Bromide	<0.087		0.50	0.087	mg/L			09/24/19 16:45	1
Sulfate	<0.38		1.0	0.38	mg/L			09/24/19 16:45	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/24/19 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 16:16	1
Aluminum	<0.013		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 16:16	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 16:16	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:16	1
Boron	<0.039		0.080	0.039	mg/L		09/28/19 06:32	10/04/19 14:15	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:16	1
Barium	<0.0016		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 16:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 16:16	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: EB-02
Date Collected: 09/23/19 09:06
Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 16:16	1
Calcium	0.18	J	0.50	0.13	mg/L		09/28/19 06:32	10/03/19 16:16	1
Lead	0.00014	J	0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:16	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 16:16	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 16:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 16:16	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 16:16	1
Zinc	0.0054		0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 16:16	1
Iron	<0.020		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 16:16	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:16	1
Potassium	<0.16		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 16:16	1
Magnesium	<0.083		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 16:16	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 16:16	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 16:16	1
Sodium	<0.35		0.50	0.35	mg/L		09/28/19 06:32	10/04/19 14:15	1
Strontium	0.0010	J	0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 16:16	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 16:16	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 16:16	1
SiO2, Silica	<0.28		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 16:16	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 16:16	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:29	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	0.46	J	0.67	0.022	mg/L			10/08/19 11:47	1
Calcium hardness as calcium carbonate	0.46		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	<0.0048		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.9	J B	5.2	1.5	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	14	B	2.0	1.0	mg/L		10/01/19 06:45	10/01/19 13:34	10
Total Kjeldahl Nitrogen	0.24		0.20	0.15	mg/L		10/03/19 18:05	10/06/19 14:05	1
Nitrate Nitrite as N	0.027	J	0.050	0.020	mg/L			09/29/19 14:30	1
Alkalinity, Total	<0.79		5.0	0.79	mg/L			10/05/19 01:36	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:36	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:36	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 01:36	1
Total Dissolved Solids	140		10	4.0	mg/L			09/27/19 09:27	1
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	2.1		0.10	0.10	mg/L			10/21/19 13:52	1
pH	5.7	HF	0.1	0.1	SU			09/30/19 21:22	1
Temperature	18.8	HF	0.001	0.001	Degrees C			09/30/19 21:22	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/10/19 19:34	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: DUP-03

Lab Sample ID: 180-96077-7

Date Collected: 09/23/19 07:00

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	9200		5000	1800	ug/L			09/25/19 20:16	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/24/19 15:31	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/24/19 15:31	25
Fluoride	<0.66		2.5	0.66	mg/L			09/24/19 15:31	25
Chloride	4900		250	180	mg/L			09/24/19 15:46	250
Bromide	17		13	2.2	mg/L			09/24/19 15:31	25
Sulfate	820		25	9.5	mg/L			09/24/19 15:31	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/24/19 15:31	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 16:20	1
Aluminum	0.030		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 16:20	1
Arsenic	0.0025		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 16:20	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:20	1
Boron	19		0.80	0.39	mg/L		09/28/19 06:32	10/04/19 14:18	10
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:20	1
Barium	0.24		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 16:20	1
Chromium	0.0023		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 16:20	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 16:20	1
Calcium	670		0.50	0.13	mg/L		09/28/19 06:32	10/03/19 16:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:20	1
Nickel	0.00056	J	0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 16:20	1
Cobalt	0.00039	J	0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 16:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 16:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 16:20	1
Zinc	0.0039	J	0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 16:20	1
Iron	3.0		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 16:20	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:20	1
Potassium	100		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 16:20	1
Magnesium	63		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 16:20	1
Manganese	0.14		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 16:20	1
Molybdenum	0.0094		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 16:20	1
Sodium	2400		5.0	3.5	mg/L		09/28/19 06:32	10/04/19 14:18	10
Strontium	7.7		0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 16:20	1
Titanium	0.0028	J	0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 16:20	1
Vanadium	0.0018		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 16:20	1
SiO2, Silica	11		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 16:20	1
Lithium	0.039		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 16:20	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:33	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1900		0.67	0.022	mg/L			10/08/19 11:47	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: DUP-03
Date Collected: 09/23/19 07:00
Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-7
Matrix: Water

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	1700		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	260		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	1.8	J B	5.2	1.5	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	6.2	B	1.0	0.50	mg/L		10/01/19 06:45	10/01/19 13:34	5
Total Kjeldahl Nitrogen	4.5	B	0.20	0.15	mg/L		10/03/19 18:05	10/06/19 12:23	1
Nitrate Nitrite as N	0.031	J	0.050	0.020	mg/L			09/29/19 14:31	1
Alkalinity, Total	300		5.0	0.79	mg/L			10/05/19 01:44	1
Alkalinity, Bicarbonate	300		5.0	0.79	mg/L			10/05/19 01:44	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:44	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 01:44	1
Total Dissolved Solids	8300	H	100	40	mg/L			10/02/19 11:52	1
Total Suspended Solids	8.8		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	6.5		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.9	HF	0.1	0.1	SU			09/30/19 21:25	1
Temperature	19.2	HF	0.001	0.001	Degrees C			09/30/19 21:25	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	3.1		1.0	0.51	mg/L			10/10/19 19:49	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-147746/4
Matrix: Water
Analysis Batch: 147746

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 18:32	1

Lab Sample ID: LCS 200-147746/2
Matrix: Water
Analysis Batch: 147746

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	40000	44500		ug/L		111	70 - 130

Lab Sample ID: LCSD 200-147746/3
Matrix: Water
Analysis Batch: 147746

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
Carbon dioxide	40000	46700		ug/L		117	70 - 130	5	30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-292385/6
Matrix: Water
Analysis Batch: 292385

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/24/19 09:50	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/24/19 09:50	1
Fluoride	<0.026		0.10	0.026	mg/L			09/24/19 09:50	1
Chloride	<0.71		1.0	0.71	mg/L			09/24/19 09:50	1
Bromide	<0.087		0.50	0.087	mg/L			09/24/19 09:50	1
Sulfate	<0.38		1.0	0.38	mg/L			09/24/19 09:50	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/24/19 09:50	1

Lab Sample ID: LCS 180-292385/5
Matrix: Water
Analysis Batch: 292385

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.25	1.17		mg/L		94	90 - 110
Nitrite as N	1.25	1.18		mg/L		95	90 - 110
Fluoride	1.25	1.25		mg/L		100	90 - 110
Chloride	25.0	24.9		mg/L		100	90 - 110
Bromide	5.00	4.72		mg/L		94	90 - 110
Sulfate	25.0	24.8		mg/L		99	90 - 110
Orthophosphate as P	1.25	1.23		mg/L		98	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-293045/1-A
Matrix: Water
Analysis Batch: 293749

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00038		0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 15:26	1
Aluminum	<0.013		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 15:26	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 15:26	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 15:26	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 15:26	1
Barium	<0.0016		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 15:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 15:26	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 15:26	1
Calcium	<0.13		0.50	0.13	mg/L		09/28/19 06:32	10/03/19 15:26	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 15:26	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 15:26	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 15:26	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 15:26	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 15:26	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 15:26	1
Iron	<0.020		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 15:26	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 15:26	1
Potassium	<0.16		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 15:26	1
Magnesium	<0.083		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 15:26	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 15:26	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 15:26	1
Strontium	<0.00076		0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 15:26	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 15:26	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 15:26	1
SiO2, Silica	<0.28		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 15:26	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 15:26	1

Lab Sample ID: MB 180-293045/1-A
Matrix: Water
Analysis Batch: 293883

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sodium	<0.35		0.50	0.35	mg/L		09/28/19 06:32	10/04/19 13:21	1

Lab Sample ID: MB 180-293045/1-A
Matrix: Water
Analysis Batch: 293908

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.039		0.080	0.039	mg/L		09/28/19 06:32	10/05/19 16:51	1

Lab Sample ID: LCS 180-293045/2-A
Matrix: Water
Analysis Batch: 293749

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5.00	5.06		mg/L		101	80 - 120
Arsenic	1.00	1.02		mg/L		102	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

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

Lab Sample ID: LCS 180-293045/2-A
Matrix: Water
Analysis Batch: 293749

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.500	0.499		mg/L		100	80 - 120
Cadmium	0.500	0.515		mg/L		103	80 - 120
Barium	1.00	1.06		mg/L		106	80 - 120
Chromium	0.500	0.514		mg/L		103	80 - 120
Copper	0.500	0.516		mg/L		103	80 - 120
Calcium	25.0	26.4		mg/L		106	80 - 120
Lead	0.500	0.512		mg/L		102	80 - 120
Nickel	0.500	0.519		mg/L		104	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	0.995		mg/L		99	80 - 120
Zinc	0.250	0.276		mg/L		111	80 - 120
Iron	5.00	5.26		mg/L		105	80 - 120
Silver	0.250	0.265		mg/L		106	80 - 120
Potassium	25.0	25.4		mg/L		102	80 - 120
Magnesium	25.0	26.3		mg/L		105	80 - 120
Manganese	0.500	0.491		mg/L		98	80 - 120
Molybdenum	0.500	0.510		mg/L		102	80 - 120
Strontium	0.500	0.501		mg/L		100	80 - 120
Titanium	0.500	0.504		mg/L		101	80 - 120
Vanadium	0.500	0.514		mg/L		103	80 - 120
SiO2, Silica	2.14	1.99		mg/L		93	80 - 120
Lithium	0.500	0.492		mg/L		98	80 - 120

Lab Sample ID: LCS 180-293045/2-A
Matrix: Water
Analysis Batch: 293883

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	25.0	26.7		mg/L		107	80 - 120

Lab Sample ID: LCS 180-293045/2-A
Matrix: Water
Analysis Batch: 293908

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.41		mg/L		113	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-293944/1-A
Matrix: Water
Analysis Batch: 294165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:21	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

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

Lab Sample ID: LCS 180-293944/2-A
Matrix: Water
Analysis Batch: 294165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293944
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00244		mg/L		98	80 - 120

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-494943/1-A
Matrix: Water
Analysis Batch: 494980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.10	J	5.0	1.4	mg/L		09/30/19 11:52	09/30/19 13:45	1

Lab Sample ID: LCS 480-494943/2-A
Matrix: Water
Analysis Batch: 494980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494943
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Oil & Grease	40.0	32.10		mg/L		80	78 - 114

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-495150/1-A
Matrix: Water
Analysis Batch: 495213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.166	J	0.20	0.10	mg/L		10/01/19 06:45	10/01/19 12:51	1

Lab Sample ID: LCS 480-495150/2-A
Matrix: Water
Analysis Batch: 495213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495150
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	1.00	0.997		mg/L		100	90 - 110

Lab Sample ID: 180-96077-7 MS
Matrix: Water
Analysis Batch: 495217

Client Sample ID: DUP-03
Prep Type: Total/NA
Prep Batch: 495150
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Ammonia	6.2	B	0.500	6.50	4	mg/L		70	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-495571/1-A
Matrix: Water
Analysis Batch: 495816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		10/02/19 19:49	10/03/19 09:02	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 480-495571/2-A
Matrix: Water
Analysis Batch: 495816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.33		mg/L		93	90 - 110

Lab Sample ID: MB 480-495837/1-A
Matrix: Water
Analysis Batch: 496240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	0.179	J	0.20	0.15	mg/L		10/03/19 18:05	10/06/19 08:55	1

Lab Sample ID: LCS 480-495837/2-A
Matrix: Water
Analysis Batch: 496240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.48		mg/L		99	90 - 110

Lab Sample ID: MB 480-495838/1-A
Matrix: Water
Analysis Batch: 496240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		10/03/19 18:05	10/06/19 09:00	1

Lab Sample ID: LCS 480-495838/2-A
Matrix: Water
Analysis Batch: 496240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.51		mg/L		100	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-494814/4
Matrix: Water
Analysis Batch: 494814

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.020		0.050	0.020	mg/L			09/29/19 14:22	1

Lab Sample ID: MB 480-494814/76
Matrix: Water
Analysis Batch: 494814

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0243	J	0.050	0.020	mg/L			09/29/19 15:44	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 480-494814/5
Matrix: Water
Analysis Batch: 494814

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.50	1.59		mg/L		106	90 - 110

Lab Sample ID: LCS 480-494814/77
Matrix: Water
Analysis Batch: 494814

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.50	1.56		mg/L		104	90 - 110

Lab Sample ID: 180-96077-7 MS
Matrix: Water
Analysis Batch: 494814

Client Sample ID: DUP-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.031	J	1.00	1.03		mg/L		100	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-495181/7
Matrix: Water
Analysis Batch: 495181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1

Lab Sample ID: LCS 480-495181/8
Matrix: Water
Analysis Batch: 495181

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	92.0		mg/L		92	90 - 110

Lab Sample ID: MB 480-496193/29
Matrix: Water
Analysis Batch: 496193

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.79		5.0	0.79	mg/L			10/05/19 01:00	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:00	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:00	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 01:00	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 480-496193/6
Matrix: Water
Analysis Batch: 496193

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1

Lab Sample ID: LCS 480-496193/30
Matrix: Water
Analysis Batch: 496193

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	93.6		mg/L		94	90 - 110

Lab Sample ID: LCS 480-496193/7
Matrix: Water
Analysis Batch: 496193

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	94.4		mg/L		94	90 - 110

Lab Sample ID: 180-96077-5 MS
Matrix: Water
Analysis Batch: 496193

Client Sample ID: FB-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	<0.79		100	82.0		mg/L		82	60 - 140

Lab Sample ID: 180-96077-4 DU
Matrix: Water
Analysis Batch: 496193

Client Sample ID: 6S-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	73		71.9		mg/L		0.9	20
Alkalinity, Bicarbonate	73		71.9		mg/L		0.9	20
Alkalinity, Carbonate	<0.79		<0.79		mg/L		NC	20
Hydroxide Alkalinity	<0.79		<0.79		mg/L		NC	20

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

Lab Sample ID: MB 480-494505/1
Matrix: Water
Analysis Batch: 494505

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	<4.0		10	4.0	mg/L			09/27/19 09:27	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

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

Lab Sample ID: LCS 480-494505/2
Matrix: Water
Analysis Batch: 494505

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	500	476		mg/L		95	85 - 115

Lab Sample ID: MB 480-495439/1
Matrix: Water
Analysis Batch: 495439

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	<4.0		10	4.0	mg/L			10/02/19 11:52	1

Lab Sample ID: LCS 480-495439/2
Matrix: Water
Analysis Batch: 495439

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	500	473		mg/L		95	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 180-292659/2
Matrix: Water
Analysis Batch: 292659

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/25/19 15:26	1

Lab Sample ID: LCS 180-292659/1
Matrix: Water
Analysis Batch: 292659

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	82.3	90.0		mg/L		109	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-495182/1
Matrix: Water
Analysis Batch: 495182

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-495438/51
Matrix: Water
Analysis Batch: 495438

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: SM 4500 P E - Phosphorus (Continued)

Lab Sample ID: LCS 480-495438/52
Matrix: Water
Analysis Batch: 495438

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.200	0.183		mg/L		91	90 - 110

Method: SM 5310C - Total Organic Carbon

Lab Sample ID: MB 180-294581/6
Matrix: Water
Analysis Batch: 294581

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/10/19 17:08	1

Lab Sample ID: LCS 180-294581/4
Matrix: Water
Analysis Batch: 294581

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	20.0	19.0		mg/L		95	85 - 115

Lab Sample ID: LCSD 180-294581/5
Matrix: Water
Analysis Batch: 294581

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
Total Organic Carbon - Duplicates	20.0	19.1		mg/L		96	85 - 115	1	20

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

GC VOA

Analysis Batch: 147746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	RSK-175	
180-96077-2	5D-GS	Total/NA	Water	RSK-175	
180-96077-3	7D-GS	Total/NA	Water	RSK-175	
180-96077-4	6S-GS	Total/NA	Water	RSK-175	
180-96077-5	FB-02	Total/NA	Water	RSK-175	
180-96077-6	EB-02	Total/NA	Water	RSK-175	
180-96077-7	DUP-03	Total/NA	Water	RSK-175	
MB 200-147746/4	Method Blank	Total/NA	Water	RSK-175	
LCS 200-147746/2	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-147746/3	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 292385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-1	5S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-2	5D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-2	5D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-3	7D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-3	7D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-4	6S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-4	6S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-5	FB-02	Total/NA	Water	EPA 300.0 R2.1	
180-96077-6	EB-02	Total/NA	Water	EPA 300.0 R2.1	
180-96077-7	DUP-03	Total/NA	Water	EPA 300.0 R2.1	
180-96077-7	DUP-03	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292385/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292385/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 293045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total Recoverable	Water	3005A	
180-96077-2	5D-GS	Total Recoverable	Water	3005A	
180-96077-3	7D-GS	Total Recoverable	Water	3005A	
180-96077-4	6S-GS	Total Recoverable	Water	3005A	
180-96077-5	FB-02	Total Recoverable	Water	3005A	
180-96077-6	EB-02	Total Recoverable	Water	3005A	
180-96077-7	DUP-03	Total Recoverable	Water	3005A	
MB 180-293045/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-293045/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 293749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-2	5D-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-3	7D-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-4	6S-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-5	FB-02	Total Recoverable	Water	EPA 6020	293045
180-96077-6	EB-02	Total Recoverable	Water	EPA 6020	293045

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Metals (Continued)

Analysis Batch: 293749 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-7	DUP-03	Total Recoverable	Water	EPA 6020	293045
MB 180-293045/1-A	Method Blank	Total Recoverable	Water	EPA 6020	293045
LCS 180-293045/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	293045

Analysis Batch: 293883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-2	5D-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-3	7D-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-4	6S-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-5	FB-02	Total Recoverable	Water	EPA 6020	293045
180-96077-6	EB-02	Total Recoverable	Water	EPA 6020	293045
180-96077-7	DUP-03	Total Recoverable	Water	EPA 6020	293045
MB 180-293045/1-A	Method Blank	Total Recoverable	Water	EPA 6020	293045
LCS 180-293045/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	293045

Analysis Batch: 293908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-2	5D-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-3	7D-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-4	6S-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-5	FB-02	Total Recoverable	Water	EPA 6020	293045
MB 180-293045/1-A	Method Blank	Total Recoverable	Water	EPA 6020	293045
LCS 180-293045/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	293045

Prep Batch: 293944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	7470A	
180-96077-2	5D-GS	Total/NA	Water	7470A	
180-96077-3	7D-GS	Total/NA	Water	7470A	
180-96077-4	6S-GS	Total/NA	Water	7470A	
180-96077-5	FB-02	Total/NA	Water	7470A	
180-96077-6	EB-02	Total/NA	Water	7470A	
180-96077-7	DUP-03	Total/NA	Water	7470A	
MB 180-293944/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293944/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 294117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total Recoverable	Water	SM 2340B	
180-96077-2	5D-GS	Total Recoverable	Water	SM 2340B	
180-96077-3	7D-GS	Total Recoverable	Water	SM 2340B	
180-96077-4	6S-GS	Total Recoverable	Water	SM 2340B	
180-96077-5	FB-02	Total Recoverable	Water	SM 2340B	
180-96077-6	EB-02	Total Recoverable	Water	SM 2340B	
180-96077-7	DUP-03	Total Recoverable	Water	SM 2340B	

Analysis Batch: 294165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	EPA 7470A	293944

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Metals (Continued)

Analysis Batch: 294165 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-2	5D-GS	Total/NA	Water	EPA 7470A	293944
180-96077-3	7D-GS	Total/NA	Water	EPA 7470A	293944
180-96077-4	6S-GS	Total/NA	Water	EPA 7470A	293944
180-96077-5	FB-02	Total/NA	Water	EPA 7470A	293944
180-96077-6	EB-02	Total/NA	Water	EPA 7470A	293944
180-96077-7	DUP-03	Total/NA	Water	EPA 7470A	293944
MB 180-293944/1-A	Method Blank	Total/NA	Water	EPA 7470A	293944
LCS 180-293944/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293944

General Chemistry

Analysis Batch: 292659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 2540D	
180-96077-2	5D-GS	Total/NA	Water	SM 2540D	
180-96077-3	7D-GS	Total/NA	Water	SM 2540D	
180-96077-4	6S-GS	Total/NA	Water	SM 2540D	
180-96077-5	FB-02	Total/NA	Water	SM 2540D	
180-96077-6	EB-02	Total/NA	Water	SM 2540D	
180-96077-7	DUP-03	Total/NA	Water	SM 2540D	
MB 180-292659/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 180-292659/1	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 294581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 5310C	
180-96077-2	5D-GS	Total/NA	Water	SM 5310C	
180-96077-3	7D-GS	Total/NA	Water	SM 5310C	
180-96077-4	6S-GS	Total/NA	Water	SM 5310C	
180-96077-5	FB-02	Total/NA	Water	SM 5310C	
180-96077-6	EB-02	Total/NA	Water	SM 5310C	
180-96077-7	DUP-03	Total/NA	Water	SM 5310C	
MB 180-294581/6	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-294581/4	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-294581/5	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 494505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-5	FB-02	Total/NA	Water	SM 2540C	
180-96077-6	EB-02	Total/NA	Water	SM 2540C	
MB 480-494505/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-494505/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 494814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	353.2	
180-96077-2	5D-GS	Total/NA	Water	353.2	
180-96077-3	7D-GS	Total/NA	Water	353.2	
180-96077-4	6S-GS	Total/NA	Water	353.2	
180-96077-5	FB-02	Total/NA	Water	353.2	
180-96077-6	EB-02	Total/NA	Water	353.2	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

General Chemistry (Continued)

Analysis Batch: 494814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-7	DUP-03	Total/NA	Water	353.2	
MB 480-494814/4	Method Blank	Total/NA	Water	353.2	
MB 480-494814/76	Method Blank	Total/NA	Water	353.2	
LCS 480-494814/5	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-494814/77	Lab Control Sample	Total/NA	Water	353.2	
180-96077-7 MS	DUP-03	Total/NA	Water	353.2	

Prep Batch: 494943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	1664B	
180-96077-2	5D-GS	Total/NA	Water	1664B	
180-96077-3	7D-GS	Total/NA	Water	1664B	
180-96077-4	6S-GS	Total/NA	Water	1664B	
180-96077-5	FB-02	Total/NA	Water	1664B	
180-96077-6	EB-02	Total/NA	Water	1664B	
180-96077-7	DUP-03	Total/NA	Water	1664B	
MB 480-494943/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-494943/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 494980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	1664B	494943
180-96077-2	5D-GS	Total/NA	Water	1664B	494943
180-96077-3	7D-GS	Total/NA	Water	1664B	494943
180-96077-4	6S-GS	Total/NA	Water	1664B	494943
180-96077-5	FB-02	Total/NA	Water	1664B	494943
180-96077-6	EB-02	Total/NA	Water	1664B	494943
180-96077-7	DUP-03	Total/NA	Water	1664B	494943
MB 480-494943/1-A	Method Blank	Total/NA	Water	1664B	494943
LCS 480-494943/2-A	Lab Control Sample	Total/NA	Water	1664B	494943

Prep Batch: 495150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	Distill/Ammonia	
180-96077-2	5D-GS	Total/NA	Water	Distill/Ammonia	
180-96077-3	7D-GS	Total/NA	Water	Distill/Ammonia	
180-96077-4	6S-GS	Total/NA	Water	Distill/Ammonia	
180-96077-5	FB-02	Total/NA	Water	Distill/Ammonia	
180-96077-6	EB-02	Total/NA	Water	Distill/Ammonia	
180-96077-7	DUP-03	Total/NA	Water	Distill/Ammonia	
MB 480-495150/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-495150/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
180-96077-7 MS	DUP-03	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 495181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 2320B	
MB 480-495181/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-495181/8	Lab Control Sample	Total/NA	Water	SM 2320B	

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

General Chemistry

Analysis Batch: 495182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 4500 H+ B	
180-96077-2	5D-GS	Total/NA	Water	SM 4500 H+ B	
180-96077-3	7D-GS	Total/NA	Water	SM 4500 H+ B	
180-96077-4	6S-GS	Total/NA	Water	SM 4500 H+ B	
180-96077-5	FB-02	Total/NA	Water	SM 4500 H+ B	
180-96077-6	EB-02	Total/NA	Water	SM 4500 H+ B	
180-96077-7	DUP-03	Total/NA	Water	SM 4500 H+ B	
LCS 480-495182/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 495213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	350.1	495150
180-96077-3	7D-GS	Total/NA	Water	350.1	495150
180-96077-5	FB-02	Total/NA	Water	350.1	495150
MB 480-495150/1-A	Method Blank	Total/NA	Water	350.1	495150
LCS 480-495150/2-A	Lab Control Sample	Total/NA	Water	350.1	495150

Analysis Batch: 495217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-2	5D-GS	Total/NA	Water	350.1	495150
180-96077-4	6S-GS	Total/NA	Water	350.1	495150
180-96077-6	EB-02	Total/NA	Water	350.1	495150
180-96077-7	DUP-03	Total/NA	Water	350.1	495150
180-96077-7 MS	DUP-03	Total/NA	Water	350.1	495150

Analysis Batch: 495438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 4500 P E	
180-96077-2	5D-GS	Total/NA	Water	SM 4500 P E	
180-96077-3	7D-GS	Total/NA	Water	SM 4500 P E	
180-96077-4	6S-GS	Total/NA	Water	SM 4500 P E	
180-96077-5	FB-02	Total/NA	Water	SM 4500 P E	
180-96077-6	EB-02	Total/NA	Water	SM 4500 P E	
180-96077-7	DUP-03	Total/NA	Water	SM 4500 P E	
MB 480-495438/51	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-495438/52	Lab Control Sample	Total/NA	Water	SM 4500 P E	

Analysis Batch: 495439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 2540C	
180-96077-2	5D-GS	Total/NA	Water	SM 2540C	
180-96077-3	7D-GS	Total/NA	Water	SM 2540C	
180-96077-4	6S-GS	Total/NA	Water	SM 2540C	
180-96077-7	DUP-03	Total/NA	Water	SM 2540C	
MB 480-495439/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-495439/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Prep Batch: 495571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	351.2	
180-96077-2	5D-GS	Total/NA	Water	351.2	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

General Chemistry (Continued)

Prep Batch: 495571 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-3	7D-GS	Total/NA	Water	351.2	
MB 480-495571/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-495571/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 495816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	351.2	495571
180-96077-2	5D-GS	Total/NA	Water	351.2	495571
180-96077-3	7D-GS	Total/NA	Water	351.2	495571
MB 480-495571/1-A	Method Blank	Total/NA	Water	351.2	495571
LCS 480-495571/2-A	Lab Control Sample	Total/NA	Water	351.2	495571

Prep Batch: 495837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-7	DUP-03	Total/NA	Water	351.2	
MB 480-495837/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-495837/2-A	Lab Control Sample	Total/NA	Water	351.2	

Prep Batch: 495838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-4	6S-GS	Total/NA	Water	351.2	
180-96077-5	FB-02	Total/NA	Water	351.2	
180-96077-6	EB-02	Total/NA	Water	351.2	
MB 480-495838/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-495838/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 496193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-2	5D-GS	Total/NA	Water	SM 2320B	
180-96077-3	7D-GS	Total/NA	Water	SM 2320B	
180-96077-4	6S-GS	Total/NA	Water	SM 2320B	
180-96077-5	FB-02	Total/NA	Water	SM 2320B	
180-96077-6	EB-02	Total/NA	Water	SM 2320B	
180-96077-7	DUP-03	Total/NA	Water	SM 2320B	
MB 480-496193/29	Method Blank	Total/NA	Water	SM 2320B	
MB 480-496193/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-496193/30	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-496193/7	Lab Control Sample	Total/NA	Water	SM 2320B	
180-96077-5 MS	FB-02	Total/NA	Water	SM 2320B	
180-96077-4 DU	6S-GS	Total/NA	Water	SM 2320B	

Analysis Batch: 496240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-4	6S-GS	Total/NA	Water	351.2	495838
180-96077-5	FB-02	Total/NA	Water	351.2	495838
180-96077-6	EB-02	Total/NA	Water	351.2	495838
180-96077-7	DUP-03	Total/NA	Water	351.2	495837
MB 480-495837/1-A	Method Blank	Total/NA	Water	351.2	495837
MB 480-495838/1-A	Method Blank	Total/NA	Water	351.2	495838
LCS 480-495837/2-A	Lab Control Sample	Total/NA	Water	351.2	495837
LCS 480-495838/2-A	Lab Control Sample	Total/NA	Water	351.2	495838

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

General Chemistry

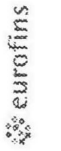
Analysis Batch: 499249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 4500 CO2 B	
180-96077-2	5D-GS	Total/NA	Water	SM 4500 CO2 B	
180-96077-3	7D-GS	Total/NA	Water	SM 4500 CO2 B	
180-96077-4	6S-GS	Total/NA	Water	SM 4500 CO2 B	
180-96077-5	FB-02	Total/NA	Water	SM 4500 CO2 B	
180-96077-6	EB-02	Total/NA	Water	SM 4500 CO2 B	
180-96077-7	DUP-03	Total/NA	Water	SM 4500 CO2 B	



301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



Environmental Testing
 TestAmerica

Client Information Client Contact: Ms. Lauren Petty Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-5417(Tel) Email: lmpetty@southernco.com Project Name: CCR - Plant Watson Special AP Site:		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@lestamericainc.com Carrier Tracking No(s): COC No: 180-54585-11376.3 Page: Page 3 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 18020186 SSOW#:		Analysis Requested 300_ORGFMS - ortho Phos Bromide, Cl, SO4, F 5310C - TOC 2540D - TSS 1664B - Oil and Grease Total Number of containers:	
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastewater, BT=tissue, AS=air) Preservation Code: 5S-GS 5D-GS 7D-GS 6S-GS FB-02 EB-02 DW-03		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 9315_Ra226, 9320_Ra228 2320B, 2540C_Calcd, SM4500_H+ 6020, 7470A 350.1, 351.2, 353.2_Pres, 4500_P_E 300_ORGFMS - ortho Phos Bromide, Cl, SO4, F 5310C - TOC 2540D - TSS 1664B - Oil and Grease Special Inst	
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:			
Relinquished by: [Signature] Date/Time: 9-23-19 1600 Company: RWH em		Relinquished by: [Signature] Date/Time: 9-23-19 8:45 Company: APHT	
Relinquished by: [Signature] Date/Time: 9-23-19 1600 Company: RWH em		Relinquished by: [Signature] Date/Time: 9-23-19 8:45 Company: APHT	
Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:			



Do Not Lift Using This Tag

Part # 156297-3 56711/9B04/05A2 12/19

SHIP DATE: 23SEP19
ACTWGT: 87.00 LB
CAD: 6993799/5SFE2021
DIMS: 23x13x13 IN
BILL THIRD PARTY

ORIGIN ID:BIWA (850) 336-0192
RICK HAYENDORFOR
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (416) 969-7068
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DEPT:

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PRIORITY OVERNIGHT

1 of 4
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XH AGCA

15238
PA-US
PIT

Uncorrected temp
Thermometer ID

1.5 / 10 °C

CF 0 Initials JS

PT-WI-SR-001 effective 11/8/18



1 10:30 A
0333
09.24

RT 97

FZ

ORIGIN ID:BIWA (850) 336-0192
RICK HAYENDORFOR
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

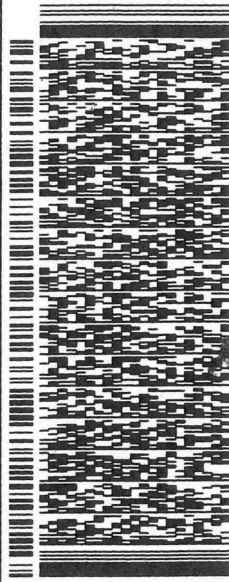
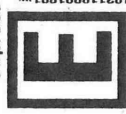
TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (416) 969-7068
INU: PO:

DEPT:

FedEx Express



TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

2 of 4
MPS# 7800 0195 0344
Mstr# 7800 0195 0333

0201

XH AGCA

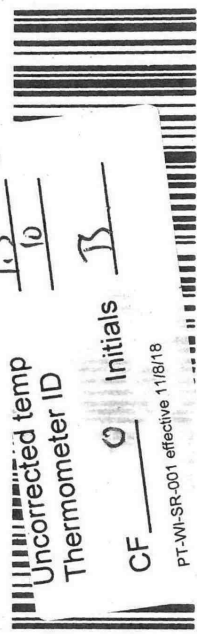
15238
PA-US
PIT

Uncorrected temp
Thermometer ID

1.5 / 10 °C

CF 0 Initials JS

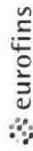
PT-WI-SR-001 effective 11/8/18



Courier or Driver: Place Astra or Barcoded Label Here

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

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PI: Bortol, Veronica		Carrier Tracking No(s): 180-374302.1					
Client Contact: Shipping/Receiving		E-Mail: veronica.bortol@testamericainc.com		Page: Page 1 of 1					
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note)		Job #: 180-96077-1					
Address: 13715 Rider Trail North, Earth City, MO, 63045		State of Origin: Georgia		Preservation Codes:					
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)					
Project Name: CCR - Plant Watson		Project #: 18020186		Other:					
Site:		SSOW#:		Total Number of Containers					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, BT=BIOSUR, A=AIR)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Special Instructions/Note:
5S-GS (180-96077-1)		9/23/19	10:00 Eastern	Water	Water	X	X		
5D-GS (180-96077-2)		9/23/19	12:20 Eastern	Water	Water	X	X		
7D-GS (180-96077-3)		9/23/19	11:20 Eastern	Water	Water	X	X		
6S-GS (180-96077-4)		9/23/19	14:14 Eastern	Water	Water	X	X		
FB-02 (180-96077-5)		9/23/19	08:50 Eastern	Water	Water	X	X		
EB-02 (180-96077-6)		9/23/19	09:06 Eastern	Water	Water	X	X		
DUP-03 (180-96077-7)		9/23/19	07:00 Eastern	Water	Water	X	X		
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>									
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: _____ Date/Time: 9/24/19 1:20</p> <p>Relinquished by: _____ Date/Time: _____</p> <p>Relinquished by: _____ Date/Time: _____</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Custody Seal No.: _____</p>									
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p>Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p> <p>Method of Shipment: _____</p> <p>Received by: _____ Date/Time: 9-25-19 09:00</p> <p>Company: TASA</p>									

Chain of Custody Record



180-96077 Chain of Custody

Client Information (Sub Contract Lab)		Lab PM: Bortot, Veronica	COG No.: 180-374280.1
Client Contact: Shipping/Receiving		E-Mail: veronica.bortot@testamericainc.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		State of Origin: Georgia	Job #: 180-96077-1
Address: 30 Community Drive, Suite 11, South Burlington State, Zip: VT, 05403		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 - Na2SSO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Phone: 802-660-1990(Tel) 802-660-1919(Fax)		Total Number of containers	
Email:		Special Instructions/Note:	
Project Name: CCR - Plant Watson		Analysis Requested	
Site:		Accreditations Required (See note):	
Due Date Requested: 10/4/2019		TAT Requested (days):	
PO #:		Matrix (W=water, S=soil, O=water/oil, BT=Tissue, ASAP)	
WO #:		Sample Type (C=comp, G=grab)	
Project #: 18020186		Sample Time	
SSOW#:		Sample Date	
Sample Identification - Client ID (Lab ID)		Preservation Code	
5S-GS (180-96077-1)	9/23/19	10:00 Eastern	Water
5D-GS (180-96077-2)	9/23/19	12:20 Eastern	Water
7D-GS (180-96077-3)	9/23/19	11:20 Eastern	Water
6S-GS (180-96077-4)	9/23/19	14:14 Eastern	Water
FB-02 (180-96077-5)	9/23/19	08:50 Eastern	Water
EB-02 (180-96077-6)	9/23/19	09:06 Eastern	Water
DUP-03 (180-96077-7)	9/23/19	07:00 Eastern	Water
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify)			
Primary Deliverable Rank: 2			
Empty Kit Relinquished by:			
Date:			
Time:			
Method of Shipment:			
Special Instructions/QC Requirements:			
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Relinquished by: <i>[Signature]</i>			
Date/Time: 9/24/19 17:36			
Company: DMH			
Relinquished by: <i>[Signature]</i>			
Date/Time: 9/25/19 19:00			
Company: THS			
Relinquished by:			
Date/Time:			
Company:			
Custody Seals Intact: <i>N/A</i>			
Custody Seal No.:			
Cooler Temperature(s) °C and Other Remarks: 1.5			



ORIGIN ID:AGCA (412) 963-7058
EUROFINS TESTAMERICA PITTSBURGH
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE

SHIP DATE: 24SEP19
ACTWGT: 34.00 LB MAN
CAD: 741733/CAFE3211

PITTSBURGH, PA 152381330
UNITED STATES US

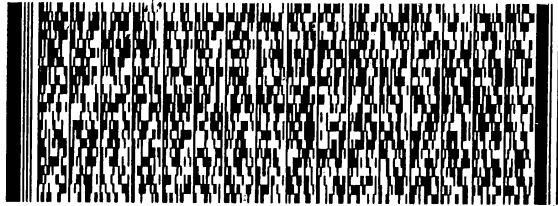
BILL RECIPIENT

TO **SHIPPING/RECEIVING**
TESTAMERICA LABORATORIES, INC.
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 680-1980
PO: YES

REF: S180-54799

551C1/9004/104C



FedEx
Express



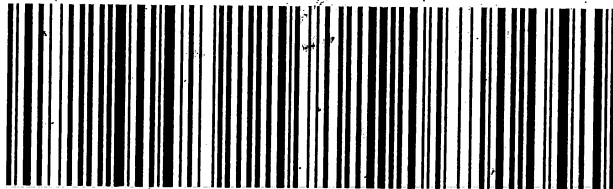
J181118060501010101

TRK# 4818 7135 1752
0201

WED - 25 SEP 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US BTV



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving		Phone:	Bortot, Veronica	State of Origin:	180-374278-1
Company: TestAmerica Laboratories, Inc.		E-Mail: veronica.bortot@testamericainc.com		Georgia	Page: 1 of 1
Address: 10 Hazelwood Drive, Amherst		Due Date Requested: 10/4/2019		Job #:	180-96077-1
City: Amherst		TAT Requested (days):		Analysis Requested	
State, Zip: NY, 14228-2298		PO #:		Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)
Phone: 716-691-2600(Tel) 716-691-7991(Fax)		WO #:		350_1/Distill_Ammonia (MOD) Local Method	353_2_Pres
Email:		Project #: 18020186		1664B/1664B_P_W (MOD) Local Method	SM4500_CO2_B
Project Name: CCR - Plant Watson		SSOW#:		SM4500_H+	351_2/351_2_Prep
Site:				2540C_Calcd	4500_P_E (MOD) Local Method
				Preservation Codes:	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Preservation Code:
5S-GS (180-96077-1)	9/23/19	10:00 Eastern		Water	
5D-GS (180-96077-2)	9/23/19	12:20 Eastern		Water	
7D-GS (180-96077-3)	9/23/19	11:20 Eastern		Water	
6S-GS (180-96077-4)	9/23/19	14:14 Eastern		Water	
FB-02 (180-96077-5)	9/23/19	08:50 Eastern		Water	
EB-02 (180-96077-6)	9/23/19	09:06 Eastern		Water	
DUP-03 (180-96077-7)	9/23/19	07:00 Eastern		Water	
<p>Special Instructions/Note:</p> <p>Total Number of containers: 2</p> <p>Other:</p>					
<p>Preservation Codes:</p> <p>A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)</p>					
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p>					
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months</p> <p>Special Instructions/QC Requirements:</p>					
<p>Empty Kit Relinquished by:</p> <p>Relinquished by: [Signature]</p> <p>Date/Time: 9/24/19 17:00</p> <p>Company: Rapid</p>					
<p>Relinquished by:</p> <p>Date/Time: [Signature]</p> <p>Company: [Signature]</p>					
<p>Relinquished by:</p> <p>Date/Time: [Signature]</p> <p>Company: [Signature]</p>					
<p>Custody Seals Intact:</p> <p>Δ Yes Δ No</p>					
<p>Cooler Temperature(s) °C and Other Remarks:</p> <p>2.2 3.0 1.8 # / ICE</p>					



Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 10 Hazelwood Drive, Amherst State, Zip: NY, 14228-2298 Phone: 716-691-2600(Tel) 716-691-7991(Fax) Email:		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com State of Origin: Georgia Carmer Tracking No(s): 180-374279-1 Page: Page 1 of 1 Job #: 180-96077-1													
Due Date Requested: 10/4/2019 TAT Requested (days):		Accreditations Required (See note):													
PO #:	WO #:	Project #:	SSOW #:												
18020186															
Project Name: CCR - Plant Watson Site:		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 - Client ID (Lab ID)		Analysis Requested													
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, AS=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	353_2_Pres	1664B/1664B_P_W (MOD) Local Method	SM4500_CO2_B	351_2/351_2_Prep	SM4500_H+	2320B	2540C Calcd	4500_P_E/(MOD) Local Method	Total Number of Containers	Special Instructions/Note:
9/23/19	10:00 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	2	
9/23/19	12:20 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	2	
9/23/19	11:20 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	2	
9/23/19	14:14 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	2	
9/23/19	08:50 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	2	
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.															
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by: Date:															
Relinquished by: Date/Time: 9/24/19 17:20 Company: <i>Shankar Laksh</i> Relinquished by: Date/Time: Company: <i>IA</i> Relinquished by: Date/Time: Company:															
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: <i>2.2 3.0 1.8 #1 ICE</i>															



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96077-1

Login Number: 96077

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96077-1

Login Number: 96077
List Number: 4
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo
List Creation: 09/26/19 06:13 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	2.2 3.0 1.8 ir gun #1 ice
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96077-1

Login Number: 96077
List Number: 2
Creator: Mohn, Taylor J

List Source: Eurofins TestAmerica, Burlington
List Creation: 09/25/19 11:35 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	1.5°C
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?	N/A	Received project as a subcontract.
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.	N/A	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-96077-2
Laboratory Sample Delivery Group: 1
Client Project/Site: CCR - Plant Watson

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
11/7/2019 4:10:30 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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.

PA Lab ID: 02-00416



Table of Contents

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QC Association Summary	20
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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Job ID: 180-96077-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-96077-2

Comments

No additional comments.

Receipt

The samples were received on 9/24/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.5° C, 1.6° C, 1.8° C and 4.0° C.

RAD

Methods 903.0, 9315: Radium-226 Prep Batch 160-444304

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

5S-GS (180-96077-1), 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4), FB-02 (180-96077-5), EB-02 (180-96077-6), DUP-03 (180-96077-7), (LCS 160-444304/1-A), (LCSD 160-444304/2-A) and (MB 160-444304/21-A)

Methods 904.0, 9320: Radium-228 prep batch 160-444355

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

5S-GS (180-96077-1), FB-02 (180-96077-5), EB-02 (180-96077-6), (LCS 160-444355/1-A), (LCSD 160-444355/2-A) and (MB 160-444355/21-A)

Methods 904.0, 9320: Radium-228 Prep Batch 160-444355

The following batch 444355 has a failing LCS at 134% and LCSD at 133% (limits are 75%-125%). The spikes are failing, the MB and RPD/RER is within limits. The sample activity is below the MDC's. The data has been reported with this narrative.

5S-GS (180-96077-1), FB-02 (180-96077-5), EB-02 (180-96077-6), (LCS 160-444355/1-A), (LCSD 160-444355/2-A) and (MB 160-444355/21-A)

Methods 904.0, 9320: Radium-228 Prep Batch 160-447604

The detection goal was not met for the following samples due to insufficient sample available for analysis: (MB 160-447604/20-A), (400-176940-A-14-E) and (400-176940-A-14-F DU). Samples were reduced for re-prep; see Prep NCM 160-181450. Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium-228 prep batch 160-447604

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4), DUP-03 (180-96077-7), (LCS 160-447604/1-A), (MB 160-447604/20-A), (400-176940-A-14-E) and (400-176940-A-14-F DU)

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Job ID: 180-96077-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Method PrecSep_0: Radium 228 Prep Batch 160-444355:

The following samples had light discoloration: 5S-GS (180-96077-1), 5D-GS (180-96077-2) and 7D-GS (180-96077-3).

Method PrecSep_0: Radium 228 Prep Batch 160-444355:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 5S-GS (180-96077-1), 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4), FB-02 (180-96077-5), EB-02 (180-96077-6) and DUP-03 (180-96077-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-447604:

Due to insufficient volume, the following samples were prepared a reduced aliquot for re-prep: 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4) and DUP-03 (180-96077-7). Samples 180-96077-D-3 and 180-96077-C-7 had yellow discoloration.

Method PrecSep-21: Radium 226 Prep Batch 160-444304:

The following samples had light yellow discoloration: 5D-GS (180-96077-2), 7D-GS (180-96077-3) and DUP-03 (180-96077-7).

Method PrecSep-21: Radium 226 Prep Batch 160-444304:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 5S-GS (180-96077-1), 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4), FB-02 (180-96077-5), EB-02 (180-96077-6) and DUP-03 (180-96077-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Qualifiers

Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
 SDG: 1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
 SDG: 1

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19
Iowa	State	373	09-17-20
Iowa	State Program	373	12-01-20
Kansas	NELAP	E-10236	10-31-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
Washington	State Program	C592	08-30-20
West Virginia DEP	State	381	12-01-19
West Virginia DEP	State Program	381	12-31-19

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-96077-1	5S-GS	Water	09/23/19 10:00	09/24/19 09:45	
180-96077-2	5D-GS	Water	09/23/19 12:20	09/24/19 09:45	
180-96077-3	7D-GS	Water	09/23/19 11:20	09/24/19 09:45	
180-96077-4	6S-GS	Water	09/23/19 14:14	09/24/19 09:45	
180-96077-5	FB-02	Water	09/23/19 08:50	09/24/19 09:45	
180-96077-6	EB-02	Water	09/23/19 09:06	09/24/19 09:45	
180-96077-7	DUP-03	Water	09/23/19 07:00	09/24/19 09:45	

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

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 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
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: 5S-GS

Date Collected: 09/23/19 10:00

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.41 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:19	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.41 mL	1.0 g	444355	09/26/19 14:46	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 12:58	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 5D-GS

Date Collected: 09/23/19 12:20

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.45 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:19	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.59 mL	1.0 g	447604	10/24/19 14:59	ORM	TAL SL
Total/NA	Analysis	9320		1			448459	10/31/19 09:13	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 7D-GS

Date Collected: 09/23/19 11:20

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.23 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:19	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.68 mL	1.0 g	447604	10/24/19 14:59	ORM	TAL SL
Total/NA	Analysis	9320		1			448507	10/31/19 09:02	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 6S-GS

Date Collected: 09/23/19 14:14

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.07 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:19	KLS	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: 6S-GS

Date Collected: 09/23/19 14:14

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			750.54 mL	1.0 g	447604	10/24/19 14:59	ORM	TAL SL
Total/NA	Analysis	9320		1			448507	10/31/19 09:02	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-02

Date Collected: 09/23/19 08:50

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.64 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:20	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.64 mL	1.0 g	444355	09/26/19 14:46	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 12:59	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-02

Date Collected: 09/23/19 09:06

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.08 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:20	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.08 mL	1.0 g	444355	09/26/19 14:46	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 12:59	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03

Date Collected: 09/23/19 07:00

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.38 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:20	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.16 mL	1.0 g	447604	10/24/19 14:59	ORM	TAL SL
Total/NA	Analysis	9320		1			448507	10/31/19 09:02	KLS	TAL SL
Instrument ID: GFPCPROTEAN										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: DUP-03

Lab Sample ID: 180-96077-7

Date Collected: 09/23/19 07:00

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

ORM = Octavia Moore

Batch Type: Analysis

KLS = Kody Saulters

SCB = Sarah Bernsen

SMP = Siobhan Perry

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: 5S-GS

Lab Sample ID: 180-96077-1

Date Collected: 09/23/19 10:00

Matrix: Water

Date Received: 09/24/19 09:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.655		0.167	0.177	1.00	0.136	pCi/L	09/26/19 13:12	10/18/19 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		40 - 110					09/26/19 13:12	10/18/19 17:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.456	U	0.301	0.304	1.00	0.466	pCi/L	09/26/19 14:46	10/10/19 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		40 - 110					09/26/19 14:46	10/10/19 12:58	1
Y Carrier	94.6		40 - 110					09/26/19 14:46	10/10/19 12:58	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	1.11		0.344	0.352	5.00	0.466	pCi/L		11/04/19 08:22	1

Client Sample ID: 5D-GS

Lab Sample ID: 180-96077-2

Date Collected: 09/23/19 12:20

Matrix: Water

Date Received: 09/24/19 09:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.59		0.257	0.294	1.00	0.159	pCi/L	09/26/19 13:12	10/18/19 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.1		40 - 110					09/26/19 13:12	10/18/19 17:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.40		0.624	0.744	1.00	0.620	pCi/L	10/24/19 14:59	10/31/19 09:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					10/24/19 14:59	10/31/19 09:13	1
Y Carrier	88.6		40 - 110					10/24/19 14:59	10/31/19 09:13	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: 5D-GS

Date Collected: 09/23/19 12:20

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-2

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	5.99		0.675	0.800	5.00	0.620	pCi/L		11/04/19 08:22	1

Client Sample ID: 7D-GS

Date Collected: 09/23/19 11:20

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-3

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	1.75		0.248	0.294	1.00	0.114	pCi/L	09/26/19 13:12	10/18/19 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		40 - 110					09/26/19 13:12	10/18/19 17:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.62		0.615	0.700	1.00	0.686	pCi/L	10/24/19 14:59	10/31/19 09:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					10/24/19 14:59	10/31/19 09:02	1
Y Carrier	82.6		40 - 110					10/24/19 14:59	10/31/19 09:02	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	5.37		0.663	0.759	5.00	0.686	pCi/L		11/04/19 08:22	1

Client Sample ID: 6S-GS

Date Collected: 09/23/19 14:14

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-4

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	2.72		0.305	0.392	1.00	0.144	pCi/L	09/26/19 13:12	10/18/19 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		40 - 110					09/26/19 13:12	10/18/19 17:19	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: 6S-GS

Lab Sample ID: 180-96077-4

Date Collected: 09/23/19 14:14

Matrix: Water

Date Received: 09/24/19 09:45

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.44		0.502	0.519	1.00	0.699	pCi/L	10/24/19 14:59	10/31/19 09:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110					10/24/19 14:59	10/31/19 09:02	1
Y Carrier	85.2		40 - 110					10/24/19 14:59	10/31/19 09:02	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	4.16		0.587	0.650	5.00	0.699	pCi/L		11/04/19 08:22	1

Client Sample ID: FB-02

Lab Sample ID: 180-96077-5

Date Collected: 09/23/19 08:50

Matrix: Water

Date Received: 09/24/19 09:45

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	0.0754	0.0754	1.00	0.146	pCi/L	09/26/19 13:12	10/18/19 17:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		40 - 110					09/26/19 13:12	10/18/19 17:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0213	U	0.269	0.269	1.00	0.484	pCi/L	09/26/19 14:46	10/10/19 12:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		40 - 110					09/26/19 14:46	10/10/19 12:59	1
Y Carrier	76.3		40 - 110					09/26/19 14:46	10/10/19 12:59	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	0.0349	U	0.279	0.279	5.00	0.484	pCi/L		11/04/19 08:22	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: EB-02

Lab Sample ID: 180-96077-6

Date Collected: 09/23/19 09:06

Matrix: Water

Date Received: 09/24/19 09:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0220	U	0.0661	0.0662	1.00	0.122	pCi/L	09/26/19 13:12	10/18/19 17:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					09/26/19 13:12	10/18/19 17:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0123	U	0.196	0.196	1.00	0.352	pCi/L	09/26/19 14:46	10/10/19 12:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					09/26/19 14:46	10/10/19 12:59	1
Y Carrier	89.3		40 - 110					09/26/19 14:46	10/10/19 12:59	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	0.0344	U	0.207	0.207	5.00	0.352	pCi/L		11/04/19 08:22	1

Client Sample ID: DUP-03

Lab Sample ID: 180-96077-7

Date Collected: 09/23/19 07:00

Matrix: Water

Date Received: 09/24/19 09:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.00		0.311	0.359	1.00	0.206	pCi/L	09/26/19 13:12	10/18/19 17:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.0		40 - 110					09/26/19 13:12	10/18/19 17:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.72		0.520	0.578	1.00	0.600	pCi/L	10/24/19 14:59	10/31/19 09:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					10/24/19 14:59	10/31/19 09:02	1
Y Carrier	84.5		40 - 110					10/24/19 14:59	10/31/19 09:02	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
 SDG: 1

Client Sample ID: DUP-03
Date Collected: 09/23/19 07:00
Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-7
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	4.72		0.606	0.680	5.00	0.600	pCi/L		11/04/19 08:22	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-444304/21-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444304

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.09451	U	0.0533	0.0540	1.00	0.150	pCi/L	09/26/19 13:12	10/18/19 19:28	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	84.7		40 - 110			09/26/19 13:12	10/18/19 19:28	1		

Lab Sample ID: LCS 160-444304/1-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444304

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	10.37		1.11	1.00	0.150	pCi/L	91	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	76.0		40 - 110						

Lab Sample ID: LCSD 160-444304/2-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444304

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	11.4	10.18		1.11	1.00	0.179	pCi/L	90	75 - 125	0.08	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits			Prepared	Analyzed	Dil Fac			
Ba Carrier	71.5		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-444355/21-A
Matrix: Water
Analysis Batch: 445775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444355

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1711	U	0.301	0.302	1.00	0.509	pCi/L	09/26/19 14:46	10/10/19 13:05	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	84.7		40 - 110			09/26/19 14:46	10/10/19 13:05	1		
Y Carrier	89.3		40 - 110			09/26/19 14:46	10/10/19 13:05	1		

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

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

Lab Sample ID: LCS 160-444355/1-A
Matrix: Water
Analysis Batch: 445720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444355

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.51	12.70	*	1.52	1.00	0.649	pCi/L	134	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	76.0		40 - 110
Y Carrier	70.7		40 - 110

Lab Sample ID: LCSD 160-444355/2-A
Matrix: Water
Analysis Batch: 445720

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444355

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	9.51	12.63	*	1.48	1.00	0.556	pCi/L	133	75 - 125	0.02	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	71.5		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: MB 160-447604/20-A
Matrix: Water
Analysis Batch: 448507

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 447604

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.8154	U G	0.844	0.847	1.00	1.38	pCi/L	10/24/19 15:25	10/31/19 09:03	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110	10/24/19 15:25	10/31/19 09:03	1
Y Carrier	84.9		40 - 110	10/24/19 15:25	10/31/19 09:03	1

Lab Sample ID: LCS 160-447604/1-A
Matrix: Water
Analysis Batch: 448459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 447604

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	31.5	30.72		3.60	1.00	1.41	pCi/L	98	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.6		40 - 110
Y Carrier	86.0		40 - 110

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
 SDG: 1

Rad

Prep Batch: 444304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	PrecSep-21	
180-96077-2	5D-GS	Total/NA	Water	PrecSep-21	
180-96077-3	7D-GS	Total/NA	Water	PrecSep-21	
180-96077-4	6S-GS	Total/NA	Water	PrecSep-21	
180-96077-5	FB-02	Total/NA	Water	PrecSep-21	
180-96077-6	EB-02	Total/NA	Water	PrecSep-21	
180-96077-7	DUP-03	Total/NA	Water	PrecSep-21	
MB 160-444304/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-444304/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-444304/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

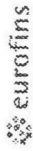
Prep Batch: 444355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	PrecSep_0	
180-96077-5	FB-02	Total/NA	Water	PrecSep_0	
180-96077-6	EB-02	Total/NA	Water	PrecSep_0	
MB 160-444355/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-444355/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-444355/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 447604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-2	5D-GS	Total/NA	Water	PrecSep_0	
180-96077-3	7D-GS	Total/NA	Water	PrecSep_0	
180-96077-4	6S-GS	Total/NA	Water	PrecSep_0	
180-96077-7	DUP-03	Total/NA	Water	PrecSep_0	
MB 160-447604/20-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-447604/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Chain of Custody Record



Environmental Testing
TestAmerica

Client Information Client Contact: Ms. Lauren Petty Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-5417(Tel) Email: lmpetty@southernco.com Project Name: CCR - Plant Watson Special AP Site:		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@lestamericainc.com Carrier Tracking No(s): COC No: 180-54585-11376.3 Page: Page 3 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 18020186 SSO#:#		Analysis Requested 300_ORGFMS - ortho Phos Bromide, Cl, SO4, F 5310C - TOC 2540D - TSS 1664B - Oil and Grease Total Number of containers:	
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=soil, BT=tissue, A=air) Preservation Code: 5S-GS 9-23-19 1000 G Water 5D-GS 9-23-19 1220 Water 7D-GS 9-23-19 1120 Water 6S-GS 9-23-19 1414 FB-02 9-23-19 0850 EB-02 9-23-19 0906 DW-03 9-23-19 0700		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 9315_Ra226, 9320_Ra228 2320B, 2540C_Calcd, SM4500_H+ 6020, 7470A 350, 1, 351, 2, 353, 2, Pres, 4500_P_E 300_ORGFMS - ortho Phos Bromide, Cl, SO4, F 5310C - TOC 2540D - TSS RSK_175_CO2 - CarbonDioxide 1664B - Oil and Grease Special Inst	
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 - Na2O4 Q - Na2SO3 R - NaHSO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)			
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: _____ Time: _____ Relinquished by: _____ Date/Time: 9-23-19 1600 Company: RWH em Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seal No.: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:			



Do Not Lift Using This Tag

Part # 156297-3 56711/9B04/05A2 12/19

SHIP DATE: 23SEP19
ACTWGT: 87.00 LB
CAD: 6993799/5SFE2021
DIM3: 23x13x13 IN
BILL THIRD PARTY

ORIGIN ID:BIWA (850) 336-0192
RICK HAYENDORFOR
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (416) 969-7068
INU: PO:

DEPT:

FedEx Express

TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

1 of 4
TRK# 7800 0195 0333
0201
MASTER

XH AGCA

15238
PA-US
PIT

°C

1.5 / 10

Uncorrected temp
Thermometer ID

CF Initials JS

PT-WI-SR-001 effective 11/8/18



RT 97 10:30 A 0333 09.24
FZ

ORIGIN ID:BIWA (850) 336-0192
RICK HAYENDORFOR
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

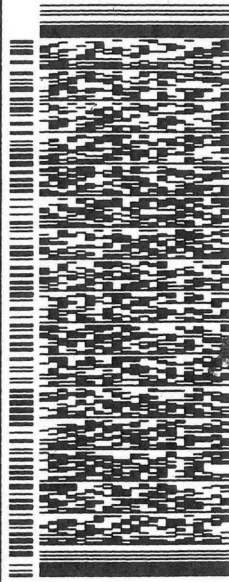
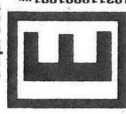
TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (416) 969-7068
INU: PO:

DEPT:

FedEx Express



TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

2 of 4
MPS# 7800 0195 0344
0263
Mstr# 7800 0195 0333
0201

XH AGCA

15238
PA-US
PIT

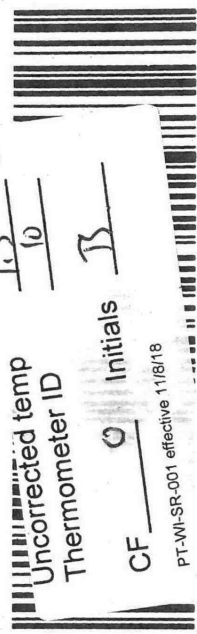
°C

1.5 / 10

Uncorrected temp
Thermometer ID

CF Initials JS

PT-WI-SR-001 effective 11/8/18



Courier or Driver: Place Astra or Barcoded Label Here

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96077-2

SDG Number: 1

Login Number: 96077

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96077-2

SDG Number: 1

Login Number: 96077

List Number: 3

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 09/25/19 12:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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.	True	20.0
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?	N/A	
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.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 400-187053-1
Client Project/Site: Plant Watson

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
4/30/2020 4:11:38 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.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187053-1

Job ID: 400-187053-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-187053-1

General Chemistry

Method SM 4500 S2 D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-486751 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 SM 4500 S2 D: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 400-486751 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Sulfide in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: APMW-3 (400-187053-3), APMW-4 (400-187053-4), APMW-5 (400-187053-5), APMW-6R (400-187053-6), APMW-7 (400-187053-7), APMW-8 (400-187053-8), APMW-9 (400-187053-9), APMW-10 (400-187053-10), DUP-01 (400-187053-11), (400-187053-A-7 MS) and (400-187053-A-7 MSD). Elevated reporting limits (RLs) are provided.

Method SM 4500 SO4 E: Due to the concentration of sulfates in the parent sample the MS/MSD was diluted after the spike. The spike amount was adjusted by the dilution factor. (400-187053-A-7 MS) and (400-187053-A-7 MSD)

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187053-1

Method	Method Description	Protocol	Laboratory
SM 4500 S2 D	Sulfide, Total	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187053-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187053-1	APMW-1R	Water	04/21/20 14:42	04/22/20 09:10	
400-187053-2	APMW-2	Water	04/21/20 07:38	04/22/20 09:10	
400-187053-3	APMW-3	Water	04/21/20 08:51	04/22/20 09:10	
400-187053-4	APMW-4	Water	04/21/20 10:38	04/22/20 09:10	
400-187053-5	APMW-5	Water	04/21/20 11:37	04/22/20 09:10	
400-187053-6	APMW-6R	Water	04/21/20 13:36	04/22/20 09:10	
400-187053-7	APMW-7	Water	04/20/20 18:04	04/22/20 09:10	
400-187053-8	APMW-8	Water	04/20/20 16:00	04/22/20 09:10	
400-187053-9	APMW-9	Water	04/20/20 14:47	04/22/20 09:10	
400-187053-10	APMW-10	Water	04/20/20 13:43	04/22/20 09:10	
400-187053-11	DUP-01	Water	04/21/20 07:51	04/22/20 09:10	

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187053-1

Client Sample ID: APMW-1R

Date Collected: 04/21/20 14:42

Date Received: 04/22/20 09:10

Lab Sample ID: 400-187053-1

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.771	F1	0.100	0.0570	mg/L			04/22/20 20:29	1
Sulfate	2.40	J	5.00	1.40	mg/L			04/29/20 13:07	1

Client Sample ID: APMW-2

Date Collected: 04/21/20 07:38

Date Received: 04/22/20 09:10

Lab Sample ID: 400-187053-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.0570	U	0.100	0.0570	mg/L			04/22/20 20:29	1
Sulfate	1.56	J	5.00	1.40	mg/L			04/29/20 13:07	1

Client Sample ID: APMW-3

Date Collected: 04/21/20 08:51

Date Received: 04/22/20 09:10

Lab Sample ID: 400-187053-3

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.0570	U	0.100	0.0570	mg/L			04/22/20 20:29	1
Sulfate	1060		150	42.0	mg/L			04/29/20 13:40	30

Client Sample ID: APMW-4

Date Collected: 04/21/20 10:38

Date Received: 04/22/20 09:10

Lab Sample ID: 400-187053-4

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	2.09		0.500	0.285	mg/L			04/22/20 20:29	5
Sulfate	302		50.0	14.0	mg/L			04/29/20 13:40	10

Client Sample ID: APMW-5

Date Collected: 04/21/20 11:37

Date Received: 04/22/20 09:10

Lab Sample ID: 400-187053-5

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.0570	U	0.100	0.0570	mg/L			04/22/20 20:29	1
Sulfate	963		150	42.0	mg/L			04/29/20 13:44	30

Client Sample ID: APMW-6R

Date Collected: 04/21/20 13:36

Date Received: 04/22/20 09:10

Lab Sample ID: 400-187053-6

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.0570	U	0.100	0.0570	mg/L			04/22/20 20:29	1
Sulfate	818		150	42.0	mg/L			04/29/20 13:44	30

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187053-1

Client Sample ID: APMW-7

Date Collected: 04/20/20 18:04

Date Received: 04/22/20 09:10

Lab Sample ID: 400-187053-7

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.29		0.500	0.285	mg/L			04/22/20 20:29	5
Sulfate	72.4		25.0	7.00	mg/L			04/29/20 13:44	5

Client Sample ID: APMW-8

Date Collected: 04/20/20 16:00

Date Received: 04/22/20 09:10

Lab Sample ID: 400-187053-8

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.620		0.100	0.0570	mg/L			04/22/20 20:29	1
Sulfate	615		150	42.0	mg/L			04/29/20 13:48	30

Client Sample ID: APMW-9

Date Collected: 04/20/20 14:47

Date Received: 04/22/20 09:10

Lab Sample ID: 400-187053-9

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.0570	U	0.100	0.0570	mg/L			04/22/20 20:29	1
Sulfate	290		50.0	14.0	mg/L			04/29/20 13:48	10

Client Sample ID: APMW-10

Date Collected: 04/20/20 13:43

Date Received: 04/22/20 09:10

Lab Sample ID: 400-187053-10

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.0671	J	0.100	0.0570	mg/L			04/22/20 20:29	1
Sulfate	88.9		25.0	7.00	mg/L			04/29/20 13:48	5

Client Sample ID: DUP-01

Date Collected: 04/21/20 07:51

Date Received: 04/22/20 09:10

Lab Sample ID: 400-187053-11

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.0570	U	0.100	0.0570	mg/L			04/22/20 20:29	1
Sulfate	1070		150	42.0	mg/L			04/29/20 13:52	30

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187053-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Plant Watson

Job ID: 400-187053-1

Client Sample ID: APMW-1R

Lab Sample ID: 400-187053-1

Date Collected: 04/21/20 14:42

Matrix: Water

Date Received: 04/22/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		1	486751	04/22/20 20:29	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	487436	04/29/20 13:07	HES	TAL PEN

Client Sample ID: APMW-2

Lab Sample ID: 400-187053-2

Date Collected: 04/21/20 07:38

Matrix: Water

Date Received: 04/22/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		1	486751	04/22/20 20:29	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	487436	04/29/20 13:07	HES	TAL PEN

Client Sample ID: APMW-3

Lab Sample ID: 400-187053-3

Date Collected: 04/21/20 08:51

Matrix: Water

Date Received: 04/22/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		1	486751	04/22/20 20:29	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	487436	04/29/20 13:40	HES	TAL PEN

Client Sample ID: APMW-4

Lab Sample ID: 400-187053-4

Date Collected: 04/21/20 10:38

Matrix: Water

Date Received: 04/22/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		5	486751	04/22/20 20:29	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	487436	04/29/20 13:40	HES	TAL PEN

Client Sample ID: APMW-5

Lab Sample ID: 400-187053-5

Date Collected: 04/21/20 11:37

Matrix: Water

Date Received: 04/22/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		1	486751	04/22/20 20:29	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	487436	04/29/20 13:44	HES	TAL PEN

Client Sample ID: APMW-6R

Lab Sample ID: 400-187053-6

Date Collected: 04/21/20 13:36

Matrix: Water

Date Received: 04/22/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		1	486751	04/22/20 20:29	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	487436	04/29/20 13:44	HES	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187053-1

Client Sample ID: APMW-7

Lab Sample ID: 400-187053-7

Date Collected: 04/20/20 18:04

Matrix: Water

Date Received: 04/22/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		5	486751	04/22/20 20:29	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	487436	04/29/20 13:44	HES	TAL PEN

Client Sample ID: APMW-8

Lab Sample ID: 400-187053-8

Date Collected: 04/20/20 16:00

Matrix: Water

Date Received: 04/22/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		1	486751	04/22/20 20:29	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	487436	04/29/20 13:48	HES	TAL PEN

Client Sample ID: APMW-9

Lab Sample ID: 400-187053-9

Date Collected: 04/20/20 14:47

Matrix: Water

Date Received: 04/22/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		1	486751	04/22/20 20:29	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	487436	04/29/20 13:48	HES	TAL PEN

Client Sample ID: APMW-10

Lab Sample ID: 400-187053-10

Date Collected: 04/20/20 13:43

Matrix: Water

Date Received: 04/22/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		1	486751	04/22/20 20:29	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	487436	04/29/20 13:48	HES	TAL PEN

Client Sample ID: DUP-01

Lab Sample ID: 400-187053-11

Date Collected: 04/21/20 07:51

Matrix: Water

Date Received: 04/22/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 S2 D		1	486751	04/22/20 20:29	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	487436	04/29/20 13:52	HES	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187053-1

General Chemistry

Analysis Batch: 486751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187053-1	APMW-1R	Total/NA	Water	SM 4500 S2 D	
400-187053-2	APMW-2	Total/NA	Water	SM 4500 S2 D	
400-187053-3	APMW-3	Total/NA	Water	SM 4500 S2 D	
400-187053-4	APMW-4	Total/NA	Water	SM 4500 S2 D	
400-187053-5	APMW-5	Total/NA	Water	SM 4500 S2 D	
400-187053-6	APMW-6R	Total/NA	Water	SM 4500 S2 D	
400-187053-7	APMW-7	Total/NA	Water	SM 4500 S2 D	
400-187053-8	APMW-8	Total/NA	Water	SM 4500 S2 D	
400-187053-9	APMW-9	Total/NA	Water	SM 4500 S2 D	
400-187053-10	APMW-10	Total/NA	Water	SM 4500 S2 D	
400-187053-11	DUP-01	Total/NA	Water	SM 4500 S2 D	
MB 400-486751/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 400-486751/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
MRL 400-486751/1	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
400-187053-1 MS	APMW-1R	Total/NA	Water	SM 4500 S2 D	
400-187053-1 MSD	APMW-1R	Total/NA	Water	SM 4500 S2 D	
400-187053-11 MS	DUP-01	Total/NA	Water	SM 4500 S2 D	
400-187053-11 MSD	DUP-01	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 487436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187053-1	APMW-1R	Total/NA	Water	SM 4500 SO4 E	
400-187053-2	APMW-2	Total/NA	Water	SM 4500 SO4 E	
400-187053-3	APMW-3	Total/NA	Water	SM 4500 SO4 E	
400-187053-4	APMW-4	Total/NA	Water	SM 4500 SO4 E	
400-187053-5	APMW-5	Total/NA	Water	SM 4500 SO4 E	
400-187053-6	APMW-6R	Total/NA	Water	SM 4500 SO4 E	
400-187053-7	APMW-7	Total/NA	Water	SM 4500 SO4 E	
400-187053-8	APMW-8	Total/NA	Water	SM 4500 SO4 E	
400-187053-9	APMW-9	Total/NA	Water	SM 4500 SO4 E	
400-187053-10	APMW-10	Total/NA	Water	SM 4500 SO4 E	
400-187053-11	DUP-01	Total/NA	Water	SM 4500 SO4 E	
MB 400-487436/5	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-487436/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-487436/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-187053-7 MS	APMW-7	Total/NA	Water	SM 4500 SO4 E	
400-187053-7 MSD	APMW-7	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187053-1

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 400-486751/3
Matrix: Water
Analysis Batch: 486751

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.0570	U	0.100	0.0570	mg/L			04/22/20 20:29	1

Lab Sample ID: LCS 400-486751/4
Matrix: Water
Analysis Batch: 486751

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	0.499	0.4431		mg/L		89	80 - 120

Lab Sample ID: MRL 400-486751/1
Matrix: Water
Analysis Batch: 486751

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	0.101	0.08682	J	mg/L		86	50 - 150

Lab Sample ID: 400-187053-1 MS
Matrix: Water
Analysis Batch: 486751

Client Sample ID: APMW-1R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	0.771	F1	0.503	0.9798	F1	mg/L		41	75 - 125

Lab Sample ID: 400-187053-1 MSD
Matrix: Water
Analysis Batch: 486751

Client Sample ID: APMW-1R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	0.771	F1	0.503	0.9798	F1	mg/L		41	75 - 125	0	25

Lab Sample ID: 400-187053-11 MS
Matrix: Water
Analysis Batch: 486751

Client Sample ID: DUP-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	0.0570	U	0.503	0.4584		mg/L		91	75 - 125

Lab Sample ID: 400-187053-11 MSD
Matrix: Water
Analysis Batch: 486751

Client Sample ID: DUP-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	0.0570	U	0.503	0.4584		mg/L		91	75 - 125	0	25

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187053-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-487436/5
Matrix: Water
Analysis Batch: 487436

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.40	U	5.00	1.40	mg/L			04/29/20 13:00	1

Lab Sample ID: LCS 400-487436/17
Matrix: Water
Analysis Batch: 487436

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.84		mg/L		99	90 - 110

Lab Sample ID: MRL 400-487436/3
Matrix: Water
Analysis Batch: 487436

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	5.561		mg/L		111	50 - 150

Lab Sample ID: 400-187053-7 MS
Matrix: Water
Analysis Batch: 487436

Client Sample ID: APMW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	72.4		10.0	81.47	4	mg/L		90	77 - 128

Lab Sample ID: 400-187053-7 MSD
Matrix: Water
Analysis Batch: 487436

Client Sample ID: APMW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	72.4		10.0	82.20	4	mg/L		98	77 - 128	1	5

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187053-1

Login Number: 187053

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

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	3.5°C, 3.5°C, 1.9°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: Plant Watson

Job ID: 400-187053-1

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	05-06-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20

ANALYTICAL REPORT

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

Laboratory Job ID: 400-187320-1
Laboratory Sample Delivery Group: Plant Watson
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
5/12/2020 1:53:56 PM
Mark Swafford, Project Manager II
(850)471-6207
mark.swafford@testamericainc.com

Designee for
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.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Job ID: 400-187320-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-187320-1

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria of <6°C (16.6°C, 17.0°C, 17.1°C, 17.9°C) and without any cooling agent (ice or otherwise): DPT-1-SS BA V2 (22-24) (400-187320-1), DPT-1-SS BA V3 (38-40) (400-187320-2), DPT-2-SS BA V2 (26-27) (400-187320-3), DPT-2-SS BA V3 (37-38) (400-187320-4), DPT-3-SS BA V2 (24-25) (400-187320-5), DPT-3-SS BA V3 (29-30) (400-187320-6), DPT-4-SS BA V2 (15-16) (400-187320-7), DPT-4-SS BA V3 (28-29) (400-187320-8), DPT-5-SS BA V2 (17-18) (400-187320-9), DPT-5-SS BA V3 (23-24) (400-187320-10), DPT-6-SS BA V2 (400-187320-11), DPT-1-SS RA V2 (400-187320-12), DPT-1-SS RA V3 (400-187320-13), DPT-2-SS RA V2 (400-187320-14), DPT-2-SS RA V3 (400-187320-15), DPT-3-SS RA V2 (400-187320-16), DPT-3-SS RA V3 (400-187320-17), DPT-4-SS RA V2 (400-187320-18), DPT-4-SS RA V3 (400-187320-19), DPT-5-SS RA V2 (400-187320-20), DPT-5-SS RA V3 (400-187320-21), DPT-6-SS RA V2 (400-187320-22), DPT-6-SS BA V3 (23-24) (400-187320-23), DPT-7-SS BA V2 (18-19) (400-187320-24), DPT-7-SS BA V3 (27-28) (400-187320-25), DPT-8-SS BA V2 (25-26) (400-187320-26), DPT-8-SS BA V3 (39-40) (400-187320-27), DPT-9-SS BA V2 (27-28) (400-187320-28), DPT-9-SS BA V3 (32-33) (400-187320-29), DPT-10-SS BA V2 (22-23) (400-187320-30), DPT-10-SS BA V3 (25-26) (400-187320-31), DUP-01 (400-187320-32), DUP-02 (400-187320-33), DPT-6-SS RA V3 (400-187320-34), DPT-7-SS RA V2 (400-187320-35), DPT-7-SS RA V3 (400-187320-36), DPT-8-SS RA V2 (400-187320-37), DPT-8-SS RA V3 (400-187320-38), DPT-9-SS RA V2 (400-187320-39), DPT-9-SS RA V3 (400-187320-40), DPT-10-SS RA V2 (400-187320-41), DPT-10-SS RA V3 (400-187320-42), DUP-01 (400-187320-43) and DUP-02 (400-187320-44)

Department General Chemistry

Method 9034_Calc_AVS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-314515 and analytical batch 180-314525 were outside control limits, low. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limit

Method 9034_Calc_AVS: The matrix spike duplicate (MSD) recoveries for preparation batch 180-314620 and analytical batch 180-314627 were outside control limits (low recoveries). Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limit

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SL
2540G	SM 2540G	SM22	TAL PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL PIT
Moisture	Percent Moisture	EPA	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
AVSSEM	Preparation, Acid Volatile Sulfide (AVS) and Simultaneously Extracted Metals (SE)	EPA	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

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

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187320-1	DPT-1-SS BA V2 (22-24)	Sediment	04/20/20 15:55	04/28/20 08:49	
400-187320-2	DPT-1-SS BA V3 (38-40)	Sediment	04/20/20 16:00	04/28/20 08:49	
400-187320-3	DPT-2-SS BA V2 (26-27)	Sediment	04/21/20 11:00	04/28/20 08:49	
400-187320-4	DPT-2-SS BA V3 (37-38)	Sediment	04/21/20 11:05	04/28/20 08:49	
400-187320-5	DPT-3-SS BA V2 (24-25)	Sediment	04/21/20 14:20	04/28/20 08:49	
400-187320-6	DPT-3-SS BA V3 (29-30)	Sediment	04/21/20 14:25	04/28/20 08:49	
400-187320-7	DPT-4-SS BA V2 (15-16)	Sediment	04/21/20 17:55	04/28/20 08:49	
400-187320-8	DPT-4-SS BA V3 (28-29)	Sediment	04/21/20 17:45	04/28/20 08:49	
400-187320-9	DPT-5-SS BA V2 (17-18)	Sediment	04/22/20 11:25	04/28/20 08:49	
400-187320-10	DPT-5-SS BA V3 (23-24)	Sediment	04/22/20 11:30	04/28/20 08:49	
400-187320-11	DPT-6-SS BA V2	Sediment	04/22/20 15:00	04/28/20 08:49	
400-187320-12	DPT-1-SS RA V2	Solid	04/20/20 15:55	04/28/20 08:49	
400-187320-13	DPT-1-SS RA V3	Solid	04/20/20 16:00	04/28/20 08:49	
400-187320-14	DPT-2-SS RA V2	Solid	04/21/20 11:00	04/28/20 08:49	
400-187320-15	DPT-2-SS RA V3	Solid	04/21/20 11:05	04/28/20 08:49	
400-187320-16	DPT-3-SS RA V2	Solid	04/21/20 14:20	04/28/20 08:49	
400-187320-17	DPT-3-SS RA V3	Solid	04/21/20 14:25	04/28/20 08:49	
400-187320-18	DPT-4-SS RA V2	Solid	04/21/20 17:55	04/28/20 08:49	
400-187320-19	DPT-4-SS RA V3	Solid	04/21/20 17:45	04/28/20 08:49	
400-187320-20	DPT-5-SS RA V2	Solid	04/22/20 11:25	04/28/20 08:49	
400-187320-21	DPT-5-SS RA V3	Solid	04/22/20 11:30	04/28/20 08:49	
400-187320-22	DPT-6-SS RA V2	Solid	04/22/20 15:00	04/28/20 08:49	
400-187320-23	DPT-6-SS BA V3 (23-24)	Sediment	04/22/20 15:05	04/28/20 08:49	
400-187320-24	DPT-7-SS BA V2 (18-19)	Sediment	04/23/20 09:25	04/28/20 08:49	
400-187320-25	DPT-7-SS BA V3 (27-28)	Sediment	04/23/20 09:30	04/28/20 08:49	
400-187320-26	DPT-8-SS BA V2 (25-26)	Sediment	04/24/20 07:45	04/28/20 08:49	
400-187320-27	DPT-8-SS BA V3 (39-40)	Sediment	04/24/20 07:50	04/28/20 08:49	
400-187320-28	DPT-9-SS BA V2 (27-28)	Sediment	04/24/20 12:10	04/28/20 08:49	
400-187320-29	DPT-9-SS BA V3 (32-33)	Sediment	04/24/20 12:15	04/28/20 08:49	
400-187320-30	DPT-10-SS BA V2 (22-23)	Sediment	04/24/20 13:20	04/28/20 08:49	
400-187320-31	DPT-10-SS BA V3 (25-26)	Sediment	04/24/20 13:25	04/28/20 08:49	
400-187320-32	DUP-01	Sediment	04/21/20 00:00	04/28/20 08:49	
400-187320-33	DUP-02	Sediment	04/21/20 00:00	04/28/20 08:49	
400-187320-34	DPT-6-SS RA V3	Solid	04/22/20 15:05	04/28/20 08:49	
400-187320-35	DPT-7-SS RA V2	Solid	04/23/20 09:25	04/28/20 08:49	
400-187320-36	DPT-7-SS RA V3	Solid	04/23/20 09:30	04/28/20 08:49	
400-187320-37	DPT-8-SS RA V2	Solid	04/24/20 07:45	04/28/20 08:49	
400-187320-38	DPT-8-SS RA V3	Solid	04/24/20 07:50	04/28/20 08:49	
400-187320-39	DPT-9-SS RA V2	Solid	04/24/20 12:10	04/28/20 08:49	
400-187320-40	DPT-9-SS RA V3	Solid	04/24/20 12:15	04/28/20 08:49	
400-187320-41	DPT-10-SS RA V2	Solid	04/24/20 13:20	04/28/20 08:49	
400-187320-42	DPT-10-SS RA V3	Solid	04/24/20 13:25	04/28/20 08:49	
400-187320-43	DUP-01	Solid	04/21/20 00:00	04/28/20 08:49	
400-187320-44	DUP-02	Solid	04/21/20 00:00	04/28/20 08:49	

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-1-SS BA V2 (22-24)

Lab Sample ID: 400-187320-1

Date Collected: 04/20/20 15:55

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 76.2

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.55	U F1	19.7	6.55	mg/Kg	☼	05/04/20 11:30	05/04/20 13:03	1

- 1
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-1-SS BA V3 (38-40)

Lab Sample ID: 400-187320-2

Date Collected: 04/20/20 16:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 82.0

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.08	U	18.2	6.08	mg/Kg	☼	05/04/20 11:30	05/04/20 13:09	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-2-SS BA V2 (26-27)

Lab Sample ID: 400-187320-3

Date Collected: 04/21/20 11:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 81.2

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.12	U	18.4	6.12	mg/Kg	☼	05/04/20 11:30	05/04/20 13:11	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-2-SS BA V3 (37-38)

Lab Sample ID: 400-187320-4

Date Collected: 04/21/20 11:05

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 83.6

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.00	U	18.0	6.00	mg/Kg	☼	05/04/20 11:30	05/04/20 13:13	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-3-SS BA V2 (24-25)

Lab Sample ID: 400-187320-5

Date Collected: 04/21/20 14:20

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 59.2

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	8.39	U	25.2	8.39	mg/Kg	☼	05/04/20 11:30	05/04/20 13:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-3-SS BA V3 (29-30)

Lab Sample ID: 400-187320-6

Date Collected: 04/21/20 14:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 86.0

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.76	U	17.3	5.76	mg/Kg	☼	05/04/20 11:30	05/04/20 13:17	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-4-SS BA V2 (15-16)

Lab Sample ID: 400-187320-7

Date Collected: 04/21/20 17:55

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 37.9

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	13.1	U	39.2	13.1	mg/Kg	☼	05/04/20 11:30	05/04/20 13:23	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-4-SS BA V3 (28-29)

Lab Sample ID: 400-187320-8

Date Collected: 04/21/20 17:45

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 84.8

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.88	U	17.6	5.88	mg/Kg	☼	05/04/20 11:30	05/04/20 13:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-5-SS BA V2 (17-18)

Lab Sample ID: 400-187320-9

Date Collected: 04/22/20 11:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 75.7

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.59	U F1	19.8	6.59	mg/Kg	☼	05/05/20 14:47	05/05/20 17:02	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-5-SS BA V3 (23-24)

Lab Sample ID: 400-187320-10

Date Collected: 04/22/20 11:30

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 81.8

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.10	U	18.3	6.10	mg/Kg	☼	05/05/20 14:47	05/05/20 17:07	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-6-SS BA V2

Lab Sample ID: 400-187320-11

Date Collected: 04/22/20 15:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 66.1

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	7.54	U	22.6	7.54	mg/Kg	☼	05/05/20 14:47	05/05/20 17:09	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	3.20		0.226	0.102	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Uranium	0.564		0.113	0.0451	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 74.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	1.24		0.256	0.115	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Uranium	0.347		0.128	0.0512	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 70.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.91		0.279	0.125	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Uranium	0.743		0.139	0.0558	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.273		0.257	0.116	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Uranium	0.0514	U	0.129	0.0514	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2

- 1
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 60.9

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	5.90		0.300	0.135	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Uranium	1.48		0.150	0.0601	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.247		0.221	0.0997	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Uranium	0.142		0.111	0.0443	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 39.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	1.44		0.478	0.215	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Uranium	1.10		0.239	0.0957	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 86.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.108	J	0.213	0.0957	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Uranium	0.0523	J	0.106	0.0425	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson

Job ID: 400-187320-1
 SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 71.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.06		0.233	0.105	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Uranium	0.384		0.117	0.0467	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.129	J	0.218	0.0982	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Uranium	0.0437	U	0.109	0.0437	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 65.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.58		0.293	0.132	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Uranium	0.689		0.147	0.0587	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-6-SS BA V3 (23-24)

Lab Sample ID: 400-187320-23

Date Collected: 04/22/20 15:05

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.5

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.42	U	19.2	6.42	mg/Kg	☼	05/05/20 14:47	05/05/20 17:10	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-7-SS BA V2 (18-19)

Lab Sample ID: 400-187320-24

Date Collected: 04/23/20 09:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.0

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.47	U	19.4	6.47	mg/Kg	☼	05/05/20 14:47	05/05/20 17:12	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-7-SS BA V3 (27-28)

Lab Sample ID: 400-187320-25

Date Collected: 04/23/20 09:30

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 57.2

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	8.74	U	26.2	8.74	mg/Kg	☼	05/05/20 14:47	05/05/20 17:14	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-8-SS BA V2 (25-26)

Lab Sample ID: 400-187320-26

Date Collected: 04/24/20 07:45

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 66.7

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	7.53	U	22.6	7.53	mg/Kg	☼	05/05/20 14:47	05/05/20 17:19	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-8-SS BA V3 (39-40)

Lab Sample ID: 400-187320-27

Date Collected: 04/24/20 07:50

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 80.0

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.24	U	18.7	6.24	mg/Kg	☼	05/05/20 14:47	05/05/20 17:21	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-9-SS BA V2 (27-28)

Lab Sample ID: 400-187320-28

Date Collected: 04/24/20 12:10

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.8

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.40	U	19.2	6.40	mg/Kg	☼	05/05/20 14:47	05/05/20 17:23	1

- 1
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- 3
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- 11
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-9-SS BA V3 (32-33)

Lab Sample ID: 400-187320-29

Date Collected: 04/24/20 12:15

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 89.3

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.60	U	16.8	5.60	mg/Kg	☼	05/05/20 14:47	05/05/20 17:25	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-10-SS BA V2 (22-23)

Lab Sample ID: 400-187320-30

Date Collected: 04/24/20 13:20

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 85.4

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.82	U	17.5	5.82	mg/Kg	☼	05/05/20 14:47	05/05/20 17:26	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-10-SS BA V3 (25-26)

Lab Sample ID: 400-187320-31

Date Collected: 04/24/20 13:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.4

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.45	U	19.3	6.45	mg/Kg	☼	05/05/20 14:47	05/05/20 17:28	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DUP-01
Date Collected: 04/21/20 00:00
Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-32
Matrix: Sediment
Percent Solids: 87.6

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.68	U	17.0	5.68	mg/Kg	☼	05/04/20 11:30	05/04/20 13:27	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DUP-02
Date Collected: 04/21/20 00:00
Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-33
Matrix: Sediment
Percent Solids: 78.6

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.33	U	19.0	6.33	mg/Kg	☼	05/04/20 11:30	05/04/20 13:29	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.117	J	0.220	0.0988	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Uranium	0.0439	U	0.110	0.0439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 76.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.11		0.233	0.105	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Uranium	0.418		0.117	0.0467	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.300		0.231	0.104	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Uranium	0.0474	J	0.116	0.0463	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	1.89		0.220	0.0992	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Uranium	0.365		0.110	0.0441	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.818		0.234	0.105	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Uranium	0.108	J	0.117	0.0468	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	3.76		0.219	0.0987	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Uranium	0.451		0.110	0.0439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.159	J	0.234	0.105	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Uranium	0.0491	J	0.117	0.0467	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	2.37		0.218	0.0980	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Uranium	0.259		0.109	0.0435	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.171	J	0.228	0.103	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Uranium	0.0456	U	0.114	0.0456	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DUP-01
Date Collected: 04/21/20 00:00
Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-43
Matrix: Solid
Percent Solids: 77.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.203	J	0.218	0.0982	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Uranium	0.0437	U	0.109	0.0437	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DUP-02
Date Collected: 04/21/20 00:00
Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-44
Matrix: Solid
Percent Solids: 78.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.60		0.218	0.0980	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Uranium	1.07		0.109	0.0435	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2

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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)
MQL	Method Quantitation Limit
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: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-1-SS BA V2 (22-24)

Date Collected: 04/20/20 15:55

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-1

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	04/30/20 23:13	PMH	TAL PIT

Client Sample ID: DPT-1-SS BA V2 (22-24)

Date Collected: 04/20/20 15:55

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-1

Matrix: Sediment

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:03	CMR	TAL PIT

Client Sample ID: DPT-1-SS BA V3 (38-40)

Date Collected: 04/20/20 16:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-2

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 00:11	PMH	TAL PIT

Client Sample ID: DPT-1-SS BA V3 (38-40)

Date Collected: 04/20/20 16:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-2

Matrix: Sediment

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:09	CMR	TAL PIT

Client Sample ID: DPT-2-SS BA V2 (26-27)

Date Collected: 04/21/20 11:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-3

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 01:08	PMH	TAL PIT

Client Sample ID: DPT-2-SS BA V2 (26-27)

Date Collected: 04/21/20 11:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-3

Matrix: Sediment

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:11	CMR	TAL PIT

Client Sample ID: DPT-2-SS BA V3 (37-38)

Date Collected: 04/21/20 11:05

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-4

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 02:05	PMH	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-2-SS BA V3 (37-38)

Lab Sample ID: 400-187320-4

Date Collected: 04/21/20 11:05

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:13	CMR	TAL PIT

Client Sample ID: DPT-3-SS BA V2 (24-25)

Lab Sample ID: 400-187320-5

Date Collected: 04/21/20 14:20

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 03:02	PMH	TAL PIT

Client Sample ID: DPT-3-SS BA V2 (24-25)

Lab Sample ID: 400-187320-5

Date Collected: 04/21/20 14:20

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 59.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:15	CMR	TAL PIT

Client Sample ID: DPT-3-SS BA V3 (29-30)

Lab Sample ID: 400-187320-6

Date Collected: 04/21/20 14:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 04:00	PMH	TAL PIT

Client Sample ID: DPT-3-SS BA V3 (29-30)

Lab Sample ID: 400-187320-6

Date Collected: 04/21/20 14:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:17	CMR	TAL PIT

Client Sample ID: DPT-4-SS BA V2 (15-16)

Lab Sample ID: 400-187320-7

Date Collected: 04/21/20 17:55

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 04:57	PMH	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-4-SS BA V2 (15-16)

Lab Sample ID: 400-187320-7

Date Collected: 04/21/20 17:55

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 37.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:23	CMR	TAL PIT

Client Sample ID: DPT-4-SS BA V3 (28-29)

Lab Sample ID: 400-187320-8

Date Collected: 04/21/20 17:45

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 07:48	PMH	TAL PIT

Client Sample ID: DPT-4-SS BA V3 (28-29)

Lab Sample ID: 400-187320-8

Date Collected: 04/21/20 17:45

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:25	CMR	TAL PIT

Client Sample ID: DPT-5-SS BA V2 (17-18)

Lab Sample ID: 400-187320-9

Date Collected: 04/22/20 11:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 08:46	PMH	TAL PIT

Client Sample ID: DPT-5-SS BA V2 (17-18)

Lab Sample ID: 400-187320-9

Date Collected: 04/22/20 11:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:02	TAM	TAL PIT

Client Sample ID: DPT-5-SS BA V3 (23-24)

Lab Sample ID: 400-187320-10

Date Collected: 04/22/20 11:30

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 09:43	PMH	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-5-SS BA V3 (23-24)

Lab Sample ID: 400-187320-10

Date Collected: 04/22/20 11:30

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:07	TAM	TAL PIT

Client Sample ID: DPT-6-SS BA V2

Lab Sample ID: 400-187320-11

Date Collected: 04/22/20 15:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 10:40	PMH	TAL PIT

Client Sample ID: DPT-6-SS BA V2

Lab Sample ID: 400-187320-11

Date Collected: 04/22/20 15:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 66.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:09	TAM	TAL PIT

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 17:59	FLC	TAL SL

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 18:33	FLC	TAL SL

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 70.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 18:39	FLC	TAL SL

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:06	FLC	TAL SL

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 60.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:13	FLC	TAL SL

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:20	FLC	TAL SL

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 39.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:26	FLC	TAL SL

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:33	FLC	TAL SL

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 71.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:40	FLC	TAL SL

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:46	FLC	TAL SL

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 65.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:53	FLC	TAL SL

Client Sample ID: DPT-6-SS BA V3 (23-24)

Lab Sample ID: 400-187320-23

Date Collected: 04/22/20 15:05

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 11:37	PMH	TAL PIT

Client Sample ID: DPT-6-SS BA V3 (23-24)

Lab Sample ID: 400-187320-23

Date Collected: 04/22/20 15:05

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:10	TAM	TAL PIT

Client Sample ID: DPT-7-SS BA V2 (18-19)

Lab Sample ID: 400-187320-24

Date Collected: 04/23/20 09:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 12:35	PMH	TAL PIT

Client Sample ID: DPT-7-SS BA V2 (18-19)

Lab Sample ID: 400-187320-24

Date Collected: 04/23/20 09:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:12	TAM	TAL PIT

Client Sample ID: DPT-7-SS BA V3 (27-28)

Lab Sample ID: 400-187320-25

Date Collected: 04/23/20 09:30

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 13:32	PMH	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-7-SS BA V3 (27-28)

Lab Sample ID: 400-187320-25

Date Collected: 04/23/20 09:30

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 57.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:14	TAM	TAL PIT

Client Sample ID: DPT-8-SS BA V2 (25-26)

Lab Sample ID: 400-187320-26

Date Collected: 04/24/20 07:45

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 14:29	PMH	TAL PIT

Client Sample ID: DPT-8-SS BA V2 (25-26)

Lab Sample ID: 400-187320-26

Date Collected: 04/24/20 07:45

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 66.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:19	TAM	TAL PIT

Client Sample ID: DPT-8-SS BA V3 (39-40)

Lab Sample ID: 400-187320-27

Date Collected: 04/24/20 07:50

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 15:26	PMH	TAL PIT

Client Sample ID: DPT-8-SS BA V3 (39-40)

Lab Sample ID: 400-187320-27

Date Collected: 04/24/20 07:50

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:21	TAM	TAL PIT

Client Sample ID: DPT-9-SS BA V2 (27-28)

Lab Sample ID: 400-187320-28

Date Collected: 04/24/20 12:10

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314337	04/30/20 19:50	PMH	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-9-SS BA V2 (27-28)

Lab Sample ID: 400-187320-28

Date Collected: 04/24/20 12:10

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:23	TAM	TAL PIT

Client Sample ID: DPT-9-SS BA V3 (32-33)

Lab Sample ID: 400-187320-29

Date Collected: 04/24/20 12:15

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314337	05/01/20 01:43	PMH	TAL PIT

Client Sample ID: DPT-9-SS BA V3 (32-33)

Lab Sample ID: 400-187320-29

Date Collected: 04/24/20 12:15

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:25	TAM	TAL PIT

Client Sample ID: DPT-10-SS BA V2 (22-23)

Lab Sample ID: 400-187320-30

Date Collected: 04/24/20 13:20

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314337	05/01/20 04:40	PMH	TAL PIT

Client Sample ID: DPT-10-SS BA V2 (22-23)

Lab Sample ID: 400-187320-30

Date Collected: 04/24/20 13:20

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:26	TAM	TAL PIT

Client Sample ID: DPT-10-SS BA V3 (25-26)

Lab Sample ID: 400-187320-31

Date Collected: 04/24/20 13:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314337	05/01/20 07:36	PMH	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-10-SS BA V3 (25-26)

Lab Sample ID: 400-187320-31

Date Collected: 04/24/20 13:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:28	TAM	TAL PIT

Client Sample ID: DUP-01

Lab Sample ID: 400-187320-32

Date Collected: 04/21/20 00:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314337	05/01/20 10:33	PMH	TAL PIT

Client Sample ID: DUP-01

Lab Sample ID: 400-187320-32

Date Collected: 04/21/20 00:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:27	CMR	TAL PIT

Client Sample ID: DUP-02

Lab Sample ID: 400-187320-33

Date Collected: 04/21/20 00:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314337	05/01/20 13:30	PMH	TAL PIT

Client Sample ID: DUP-02

Lab Sample ID: 400-187320-33

Date Collected: 04/21/20 00:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:29	CMR	TAL PIT

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 20:00	FLC	TAL SL

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 20:07	FLC	TAL SL

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 20:33	FLC	TAL SL

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 20:40	FLC	TAL SL

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 20:47	FLC	TAL SL

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 20:54	FLC	TAL SL

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 21:00	FLC	TAL SL

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 21:07	FLC	TAL SL

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 21:14	FLC	TAL SL

Client Sample ID: DUP-01

Lab Sample ID: 400-187320-43

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DUP-01

Date Collected: 04/21/20 00:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-43

Matrix: Solid

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 22:01	FLC	TAL SL

Client Sample ID: DUP-02

Date Collected: 04/21/20 00:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-44

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DUP-02

Date Collected: 04/21/20 00:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-44

Matrix: Solid

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 22:34	FLC	TAL SL

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

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

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Metals

Prep Batch: 469892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	3050B	
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	3050B	
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	3050B	
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	3050B	
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	3050B	
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	3050B	
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	3050B	
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	3050B	
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	3050B	
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	3050B	
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	3050B	
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	3050B	
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	3050B	
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	3050B	
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	3050B	
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	3050B	
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	3050B	
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	3050B	
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	3050B	
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	3050B	
MB 160-469892/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-469892/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-469892/3-A	Lab Control Sample	Total/NA	Solid	3050B	
400-187320-12 MS	DPT-1-SS RA V2	Total/NA	Solid	3050B	
400-187320-12 MSD	DPT-1-SS RA V2	Total/NA	Solid	3050B	

Prep Batch: 469893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-43	DUP-01	Total/NA	Solid	3050B	
400-187320-44	DUP-02	Total/NA	Solid	3050B	
MB 160-469893/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-469893/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-469893/3-A	Lab Control Sample	Total/NA	Solid	3050B	
400-187320-43 MS	DUP-01	Total/NA	Solid	3050B	
400-187320-43 MSD	DUP-01	Total/NA	Solid	3050B	

Analysis Batch: 469984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	6020	469892
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	6020	469892
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	6020	469892
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	6020	469892
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	6020	469892
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	6020	469892
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	6020	469892
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	6020	469892
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	6020	469892
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	6020	469892
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	6020	469892
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	6020	469892
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	6020	469892

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Metals (Continued)

Analysis Batch: 469984 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	6020	469892
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	6020	469892
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	6020	469892
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	6020	469892
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	6020	469892
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	6020	469892
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	6020	469892
400-187320-43	DUP-01	Total/NA	Solid	6020	469893
400-187320-44	DUP-02	Total/NA	Solid	6020	469893
MB 160-469892/1-A	Method Blank	Total/NA	Solid	6020	469892
MB 160-469893/1-A	Method Blank	Total/NA	Solid	6020	469893
LCS 160-469892/2-A	Lab Control Sample	Total/NA	Solid	6020	469892
LCS 160-469893/2-A	Lab Control Sample	Total/NA	Solid	6020	469893
LCSSRM 160-469892/3-A	Lab Control Sample	Total/NA	Solid	6020	469892
LCSSRM 160-469893/3-A	Lab Control Sample	Total/NA	Solid	6020	469893
400-187320-12 MS	DPT-1-SS RA V2	Total/NA	Solid	6020	469892
400-187320-12 MSD	DPT-1-SS RA V2	Total/NA	Solid	6020	469892
400-187320-43 MS	DUP-01	Total/NA	Solid	6020	469893
400-187320-43 MSD	DUP-01	Total/NA	Solid	6020	469893

General Chemistry

Analysis Batch: 314330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-1	DPT-1-SS BA V2 (22-24)	Total/NA	Sediment	2540G	
400-187320-2	DPT-1-SS BA V3 (38-40)	Total/NA	Sediment	2540G	
400-187320-3	DPT-2-SS BA V2 (26-27)	Total/NA	Sediment	2540G	
400-187320-4	DPT-2-SS BA V3 (37-38)	Total/NA	Sediment	2540G	
400-187320-5	DPT-3-SS BA V2 (24-25)	Total/NA	Sediment	2540G	
400-187320-6	DPT-3-SS BA V3 (29-30)	Total/NA	Sediment	2540G	
400-187320-7	DPT-4-SS BA V2 (15-16)	Total/NA	Sediment	2540G	
400-187320-8	DPT-4-SS BA V3 (28-29)	Total/NA	Sediment	2540G	
400-187320-9	DPT-5-SS BA V2 (17-18)	Total/NA	Sediment	2540G	
400-187320-10	DPT-5-SS BA V3 (23-24)	Total/NA	Sediment	2540G	
400-187320-11	DPT-6-SS BA V2	Total/NA	Sediment	2540G	
400-187320-23	DPT-6-SS BA V3 (23-24)	Total/NA	Sediment	2540G	
400-187320-24	DPT-7-SS BA V2 (18-19)	Total/NA	Sediment	2540G	
400-187320-25	DPT-7-SS BA V3 (27-28)	Total/NA	Sediment	2540G	
400-187320-26	DPT-8-SS BA V2 (25-26)	Total/NA	Sediment	2540G	
400-187320-27	DPT-8-SS BA V3 (39-40)	Total/NA	Sediment	2540G	
180-105133-A-1 DU	Duplicate	Total/NA	Sediment	2540G	
180-105133-A-2 DU	Duplicate	Total/NA	Sediment	2540G	

Analysis Batch: 314337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-28	DPT-9-SS BA V2 (27-28)	Total/NA	Sediment	2540G	
400-187320-29	DPT-9-SS BA V3 (32-33)	Total/NA	Sediment	2540G	
400-187320-30	DPT-10-SS BA V2 (22-23)	Total/NA	Sediment	2540G	
400-187320-31	DPT-10-SS BA V3 (25-26)	Total/NA	Sediment	2540G	
400-187320-32	DUP-01	Total/NA	Sediment	2540G	
400-187320-33	DUP-02	Total/NA	Sediment	2540G	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

General Chemistry (Continued)

Analysis Batch: 314337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-28 DU	DPT-9-SS BA V2 (27-28)	Total/NA	Sediment	2540G	

Prep Batch: 314515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-1	DPT-1-SS BA V2 (22-24)	SEM/AVS	Sediment	AVSSEM	
400-187320-2	DPT-1-SS BA V3 (38-40)	SEM/AVS	Sediment	AVSSEM	
400-187320-3	DPT-2-SS BA V2 (26-27)	SEM/AVS	Sediment	AVSSEM	
400-187320-4	DPT-2-SS BA V3 (37-38)	SEM/AVS	Sediment	AVSSEM	
400-187320-5	DPT-3-SS BA V2 (24-25)	SEM/AVS	Sediment	AVSSEM	
400-187320-6	DPT-3-SS BA V3 (29-30)	SEM/AVS	Sediment	AVSSEM	
400-187320-7	DPT-4-SS BA V2 (15-16)	SEM/AVS	Sediment	AVSSEM	
400-187320-8	DPT-4-SS BA V3 (28-29)	SEM/AVS	Sediment	AVSSEM	
400-187320-32	DUP-01	SEM/AVS	Sediment	AVSSEM	
400-187320-33	DUP-02	SEM/AVS	Sediment	AVSSEM	
MB 180-314515/1-A	Method Blank	SEM/AVS	Sediment	AVSSEM	
LCS 180-314515/2-A	Lab Control Sample	SEM/AVS	Sediment	AVSSEM	
400-187320-1 MS	DPT-1-SS BA V2 (22-24)	SEM/AVS	Sediment	AVSSEM	
400-187320-1 MSD	DPT-1-SS BA V2 (22-24)	SEM/AVS	Sediment	AVSSEM	

Analysis Batch: 314525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-1	DPT-1-SS BA V2 (22-24)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-2	DPT-1-SS BA V3 (38-40)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-3	DPT-2-SS BA V2 (26-27)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-4	DPT-2-SS BA V3 (37-38)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-5	DPT-3-SS BA V2 (24-25)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-6	DPT-3-SS BA V3 (29-30)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-7	DPT-4-SS BA V2 (15-16)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-8	DPT-4-SS BA V3 (28-29)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-32	DUP-01	SEM/AVS	Sediment	EPA 9034	314515
400-187320-33	DUP-02	SEM/AVS	Sediment	EPA 9034	314515
MB 180-314515/1-A	Method Blank	SEM/AVS	Sediment	EPA 9034	314515
LCS 180-314515/2-A	Lab Control Sample	SEM/AVS	Sediment	EPA 9034	314515
400-187320-1 MS	DPT-1-SS BA V2 (22-24)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-1 MSD	DPT-1-SS BA V2 (22-24)	SEM/AVS	Sediment	EPA 9034	314515

Prep Batch: 314620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-9	DPT-5-SS BA V2 (17-18)	SEM/AVS	Sediment	AVSSEM	
400-187320-10	DPT-5-SS BA V3 (23-24)	SEM/AVS	Sediment	AVSSEM	
400-187320-11	DPT-6-SS BA V2	SEM/AVS	Sediment	AVSSEM	
400-187320-23	DPT-6-SS BA V3 (23-24)	SEM/AVS	Sediment	AVSSEM	
400-187320-24	DPT-7-SS BA V2 (18-19)	SEM/AVS	Sediment	AVSSEM	
400-187320-25	DPT-7-SS BA V3 (27-28)	SEM/AVS	Sediment	AVSSEM	
400-187320-26	DPT-8-SS BA V2 (25-26)	SEM/AVS	Sediment	AVSSEM	
400-187320-27	DPT-8-SS BA V3 (39-40)	SEM/AVS	Sediment	AVSSEM	
400-187320-28	DPT-9-SS BA V2 (27-28)	SEM/AVS	Sediment	AVSSEM	
400-187320-29	DPT-9-SS BA V3 (32-33)	SEM/AVS	Sediment	AVSSEM	
400-187320-30	DPT-10-SS BA V2 (22-23)	SEM/AVS	Sediment	AVSSEM	
400-187320-31	DPT-10-SS BA V3 (25-26)	SEM/AVS	Sediment	AVSSEM	
MB 180-314620/1-A	Method Blank	SEM/AVS	Sediment	AVSSEM	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

General Chemistry (Continued)

Prep Batch: 314620 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-314620/2-A	Lab Control Sample	SEM/AVS	Sediment	AVSSEM	
400-187320-9 MS	DPT-5-SS BA V2 (17-18)	SEM/AVS	Sediment	AVSSEM	
400-187320-9 MSD	DPT-5-SS BA V2 (17-18)	SEM/AVS	Sediment	AVSSEM	

Analysis Batch: 314627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-9	DPT-5-SS BA V2 (17-18)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-10	DPT-5-SS BA V3 (23-24)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-11	DPT-6-SS BA V2	SEM/AVS	Sediment	EPA 9034	314620
400-187320-23	DPT-6-SS BA V3 (23-24)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-24	DPT-7-SS BA V2 (18-19)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-25	DPT-7-SS BA V3 (27-28)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-26	DPT-8-SS BA V2 (25-26)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-27	DPT-8-SS BA V3 (39-40)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-28	DPT-9-SS BA V2 (27-28)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-29	DPT-9-SS BA V3 (32-33)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-30	DPT-10-SS BA V2 (22-23)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-31	DPT-10-SS BA V3 (25-26)	SEM/AVS	Sediment	EPA 9034	314620
MB 180-314620/1-A	Method Blank	SEM/AVS	Sediment	EPA 9034	314620
LCS 180-314620/2-A	Lab Control Sample	SEM/AVS	Sediment	EPA 9034	314620
400-187320-9 MS	DPT-5-SS BA V2 (17-18)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-9 MSD	DPT-5-SS BA V2 (17-18)	SEM/AVS	Sediment	EPA 9034	314620

Analysis Batch: 469475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	Moisture	
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	Moisture	
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	Moisture	
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	Moisture	
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	Moisture	
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	Moisture	
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	Moisture	
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	Moisture	
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	Moisture	
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	Moisture	
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	Moisture	
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	Moisture	
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	Moisture	
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	Moisture	
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	Moisture	
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	Moisture	
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	Moisture	
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	Moisture	
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	Moisture	
160-37907-D-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 469480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	Moisture	
400-187320-43	DUP-01	Total/NA	Solid	Moisture	
400-187320-44	DUP-02	Total/NA	Solid	Moisture	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

General Chemistry (Continued)

Analysis Batch: 469480 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-42 DU	DPT-10-SS RA V3	Total/NA	Solid	Moisture	

1

2

3

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-469892/1-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469892

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Thorium	0.0893	U	0.198	0.0893	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Uranium	0.0397	U	0.0992	0.0397	mg/Kg		05/08/20 10:07	05/08/20 17:39	2

Lab Sample ID: LCS 160-469892/2-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCSSRM 160-469892/3-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469892

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 400-187320-12 MS
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: DPT-1-SS RA V2
Prep Type: Total/NA
Prep Batch: 469892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	0.564		111	115.6		mg/Kg	☼	104	75 - 125

Lab Sample ID: 400-187320-12 MSD
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: DPT-1-SS RA V2
Prep Type: Total/NA
Prep Batch: 469892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Uranium	0.564		127	131.9		mg/Kg	☼	103	75 - 125	13	30

Lab Sample ID: MB 160-469893/1-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469893

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Thorium	0.0894	U	0.199	0.0894	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Uranium	0.0397	U	0.0993	0.0397	mg/Kg		05/08/20 10:12	05/08/20 21:20	2

Lab Sample ID: LCS 160-469893/2-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

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

Lab Sample ID: LCSSRM 160-469893/3-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469893

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Uranium	22.5	24.79		mg/Kg		110.2	68.0 - 132.4

Lab Sample ID: 400-187320-43 MS
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 469893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Thorium	0.203	J	126	131.1		mg/Kg	☼	104	75 - 125
Uranium	0.0437	U	126	131.7		mg/Kg	☼	104	75 - 125

Lab Sample ID: 400-187320-43 MSD
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 469893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Thorium	0.203	J	119	118.0		mg/Kg	☼	99	75 - 125	11	30
Uranium	0.0437	U	119	118.2		mg/Kg	☼	100	75 - 125	11	30

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-314515/1-A
Matrix: Sediment
Analysis Batch: 314525

Client Sample ID: Method Blank
Prep Type: SEM/AVS
Prep Batch: 314515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.00	U	15.0	5.00	mg/Kg		05/04/20 11:30	05/04/20 12:59	1

Lab Sample ID: LCS 180-314515/2-A
Matrix: Sediment
Analysis Batch: 314525

Client Sample ID: Lab Control Sample
Prep Type: SEM/AVS
Prep Batch: 314515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acid Volatile Sulfides (AVS)	62.9	57.35		mg/Kg		91	85 - 115

Lab Sample ID: 400-187320-1 MS
Matrix: Sediment
Analysis Batch: 314525

Client Sample ID: DPT-1-SS BA V2 (22-24)
Prep Type: SEM/AVS
Prep Batch: 314515

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acid Volatile Sulfides (AVS)	6.55	U F1	82.7	55.20	F1	mg/Kg	☼	67	75 - 125

Lab Sample ID: 400-187320-1 MSD
Matrix: Sediment
Analysis Batch: 314525

Client Sample ID: DPT-1-SS BA V2 (22-24)
Prep Type: SEM/AVS
Prep Batch: 314515

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acid Volatile Sulfides (AVS)	6.55	U F1	82.3	59.11	F1	mg/Kg	☼	72	75 - 125	7	20

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: MB 180-314620/1-A
Matrix: Sediment
Analysis Batch: 314627

Client Sample ID: Method Blank
Prep Type: SEM/AVS
Prep Batch: 314620

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.00	U	15.0	5.00	mg/Kg		05/05/20 14:47	05/05/20 16:58	1

Lab Sample ID: LCS 180-314620/2-A
Matrix: Sediment
Analysis Batch: 314627

Client Sample ID: Lab Control Sample
Prep Type: SEM/AVS
Prep Batch: 314620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acid Volatile Sulfides (AVS)	50.8	45.81		mg/Kg		90	85 - 115

Lab Sample ID: 400-187320-9 MS
Matrix: Sediment
Analysis Batch: 314627

Client Sample ID: DPT-5-SS BA V2 (17-18)
Prep Type: SEM/AVS
Prep Batch: 314620

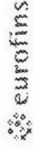
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acid Volatile Sulfides (AVS)	6.59	U F1	67.1	51.16		mg/Kg	☼	76	75 - 125

Lab Sample ID: 400-187320-9 MSD
Matrix: Sediment
Analysis Batch: 314627

Client Sample ID: DPT-5-SS BA V2 (17-18)
Prep Type: SEM/AVS
Prep Batch: 314620

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acid Volatile Sulfides (AVS)	6.59	U F1	66.7	44.96	F1	mg/Kg	☼	67	75 - 125	13	20

Chain of Custody Record



Client Information
 Client Contact: Lauren Parker
 Company: Southern Company
 Address: 3535 Colomade Parkway Bin S 530 EC
 City: Birmingham
 State: AL, Zip: 35243
 Phone: 205-992-6283(Tel)
 Email: laparker@southernco.com
 Project Name: Plant Watson
 Site: Plant Watson

Supplier: Nathan Ozick
 Phone: 985-204-5408
 Lab PM: Whitmire, Cheyenne R
 E-Mail: cheyenne.whitmire@testamericainc.com
 COC No: 400-93871-34057.5
 Page: Page 5 of 6
 Job #:

Analysis Requested
 9315_Ra226 - Radium 226
 9315_Ra228 - Radium 228
 9315_Ra226, 9320_Th232 - Radium 226 and Thorium-232
 6020 - Uranium & Thorium
 Ra226Ra228_GFP - Combined Radium-226 and Radium-228
 228 - Moisture - Percent Moisture
 9315_Ra226 - Radium 226
 9315_Ra228 - Radium 228
 SM4500_SO4_E - Sulfate, Total
 SM4500_SO4_D - Sulfide, Total
 9034_Calc_AVS_Moisture

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_SO4_E - Sulfate, Total	SM4500_SO4_D - Sulfide, Total	9315_Ra226, 9320_Th232	6020 - Uranium & Thorium	Ra226Ra228_GFP - Combined Radium-226 and Radium-228	228 - Moisture - Percent Moisture	9315_Ra226 - Radium 226	9315_Ra228 - Radium 228	Ra226Ra228_GFP - Radium 226 + Radium 228	Total Number of Containers	Special Instructions/Note:
DPT-1-SS Ba UZ (22-24)	4/20/20	1555	G	Solid	W												Baton Rouge 218 400-187320 COC
DPT-1-SS Ba U3 (38-40)	↓	1600		Solid	W												
DPT-2-SS Ba U2 (20-27)	4/21/20	1100		Solid	W												
DPT-2-SS Ba U3 (37-38)		1105		Solid	W												
DPT-3-SS Ba U2 (24-25)		1470		Solid	W												
DPT-3-SS Ba U3 (29-30)		1475		Solid	W												
DPT-4-SS Ba U2 (15-16)	↓	1755		Solid	W												
DPT-4-SS Ba U3 (28-29)		1745		Solid	W												
DPT-5-SS Ba U2 (17-18)	4/22/20	1125		Solid	W												
DPT-5-SS Ba U3 (23-24)	↓	1130		Solid	W												
DPT-6-SS Ba U2		1500		Solid	W												

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:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: 4/27/20 0600 Company: GE
 Relinquished by: _____ Date: 4/27/20 1145 Company: FTA
 Relinquished by: _____ Date: 4/28/20 849 Company: FTA
 Custody Seals Intact: Yes No Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: 2.8°C, 2.8°C



Chain of Custody Record

Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 (Tel) Email: laparker@southernco.com Project Name: Plant Watson Site:		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-93871-34057.5 Page: Page 5 of 6 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: 40001674 Project #: 40001674 SSON#:		Analysis Requested 9034 Calc AVS, Moisture 5M4500_S04_E - Sulfate, Total 5M4500_S02_D - Sulfide, Total 9315_Ra226, 9320_Ra228 6020 - Uranium & Thorium Ra226Ra228_GFP - Combined Radium-226 and Radium-228 228 Moisture - Percent Moisture 9315_Ra226 - Radium 226 9320_Ra228 - Radium 228 Ra226Ra228_GFP - Radium 226 + Radium 228 Total Number of Containers	
Sample Identification DPT-1-SS Ra U2 DPT-2-SS Ra U3 DPT-2-SS Ra U2 DPT-2-SS Ra U3 DPT-3-SS Ra U2 DPT-3-SS Ra U3 DPT-4-SS Ra U2 DPT-4-SS Ra U3 DPT-5-SS Ra U2 DPT-5-SS Ra U3 DPT-U-SS Ra U2	Sample Date 4/20/20 ↓ 4/17/20 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Sample Time 1555 ↓ 1100 1105 1420 1425 1755 1745 1125 1130 ↓ 1500	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid
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 - EDTA Other:		Special Instructions/Note: 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)	
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		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	
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/QC Requirements:	
Deliverable Requested: <input type="checkbox"/> I, II, III, IV, Other (specify)		Method of Shipment:	
Empty Kit Relinquished by:		Date:	
Relinquished by: <i>[Signature]</i>		Date/Time: 7-17-20 0600	
Relinquished by: <i>[Signature]</i>		Date/Time: 4-27-20 145	
Relinquished by: <i>[Signature]</i>		Date/Time: 4/17/2020 30	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Received by: <i>[Signature]</i> Company: <i>[Signature]</i> Received by: <i>[Signature]</i> Company: <i>[Signature]</i> Received by: <i>[Signature]</i> Company: <i>[Signature]</i>	
Cooler Temperature(s) °C and Other Remarks:		Date/Time: 4/28/20 849	

Baton Rouge
218

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

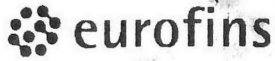
Chain of Custody Record



Environment Testing
TestAmerica

Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 (Tel) Email: laparker@southernco.com Project Name: Plant Watson Site: <i>Plant Watson</i>		Sampler: <i>Nathan Choi</i> Lab PM: Whitmore, Cheyenne R Phone: <i>985-204-5108</i> E-Mail: cheyenne.whitmore@testamericainc.com		Carrier Tracking No(s): COC No: 400-93871-34057.5 Page: Page 5 of 6 Job #:	
Due Date Requested: TAT Requested (days):		Analysis Requested			
PO #: SCS10382606 WO #:		Total Number of Containers:			
Project #: 40001674 SSOW#:		Perform MS/MSD (Yes or No)			
Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=air)		Field Filtered Sample (Yes or No)			
Sample Identification DPT-6-SS RaV3 DPT-7-SS RaV2 DPT-7-SS RaV3 DPT-8-SS RaV2 DPT-8-SS RaV3 DPT-9-SS RaV2 DPT-9-SS RaV3 DPT-10-SS RaV2 DPT-10-SS RaV3 DUP-01 DPT-02		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 Z - other (specify)			
Special Instructions/Note: Baton Rouge 218		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		Special Instructions/QC Requirements:			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by:		Date:			
Relinquished by: <i>Nathan Choi</i>		Date/Time: 4-27-20 0600			
Relinquished by:		Date/Time: 4-27-20 1145			
Relinquished by:		Date/Time: 4/28/2000 849			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:			





Environment Testing
TestAmerica

Part # 159459-43a RIT 10/14

ORIGIN ID:PNSA (850) 474-1001
SAMPLE RECEIVING
TEST AMERICA PENSACOLA
3355 MCLEMORE DR

SHIP DATE: 28APR20
ACTWGT: 45.90 LB
CAD: 0823943/CAFE3311

PENSACOLA, FL 32514
UNITED STATES US

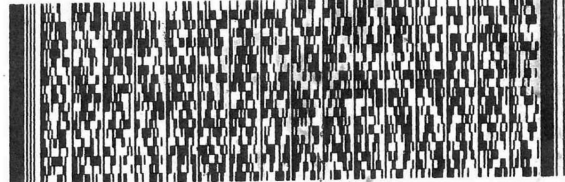
BILL SENDER

TO **SAMPLE CONTROL**
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
INU:
PO:

REF:

DEPT:



FedEx
Express



J101219002001UN

WED - 29 APR 10:30A
PRIORITY OVERNIGHT

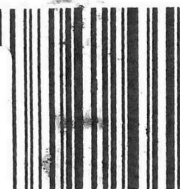
TRK# 1482 3804 4201
0201

XH AGCA

15238
PA-US **PIT**

Uncorrected temp 4.8 °C
Thermometer ID 17

CF 0 Initials JB



PT-WI-SR-001 effective 7/26/13

- 1
- 2
- 3
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- 6
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- 8
- 9
- 10
- 11
- 12
- 13

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Whitmire, Chylene R	Carrier Tracking No(s):	COC No: 400-242230.1						
Client Contact: Shipping/Receiving		E-Mail: cheylene.whitmire@testamericainc.com	State of Origin: Mississippi	Page: Page 1 of 3						
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):	Job #: 400-187320-1							
Address: 13715 Rider Trail North,		Due Date Requested: 4/30/2020	Preservation Codes:							
City: Earth City		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: MO, 63045		PO #:	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 Z - other (specify)							
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:								
Email:		Project #:								
Plant Name: Plant Watson		40001674								
Site:		SSOW#:								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=swab/boli, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6020/3050B 2% Uranium & Thorium	Total Number of Containers	Special Instructions/Note:
DPT-1-SS RA V2 (400-187320-12)	4/20/20	15:55 Central	Solid	Solid	X	X	X	X	2	
DPT-1-SS RA V3 (400-187320-13)	4/20/20	16:00 Central	Solid	Solid	X	X	X	X	2	
DPT-2-SS RA V2 (400-187320-14)	4/21/20	11:00 Central	Solid	Solid	X	X	X	X	2	
DPT-2-SS RA V3 (400-187320-15)	4/21/20	11:05 Central	Solid	Solid	X	X	X	X	2	
DPT-3-SS RA V2 (400-187320-16)	4/21/20	14:20 Central	Solid	Solid	X	X	X	X	2	
DPT-3-SS RA V3 (400-187320-17)	4/21/20	14:25 Central	Solid	Solid	X	X	X	X	2	
DPT-4-SS RA V2 (400-187320-18)	4/21/20	17:55 Central	Solid	Solid	X	X	X	X	2	
DPT-4-SS RA V3 (400-187320-19)	4/21/20	17:45 Central	Solid	Solid	X	X	X	X	2	
DPT-5-SS RA V2 (400-187320-20)	4/22/20	11:25 Central	Solid	Solid	X	X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

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: _____ Time: _____ Method of Shipment: _____

Relinquished by: *Kevin R. Owen* Date/Time: 4-28-20 16:20 Company: ETA
 Relinquished by: *FE* Date/Time: 4-29-20 09:03 Company: ETA STL
 Relinquished by: _____ Date/Time: _____ Company: _____

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

Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab P/N: Whitmire, Cheyenne R	Carrier Tracking No(s): 400-242230.2
Client Contact: TestAmerica Laboratories, Inc.		E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Mississippi
Shipping/Receiving		Accreditations Required (See note):	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc.		Project #: 40001674	Job #: 400-187320-1
Address: 13715 Rider Trail North, Earth City, MO, 63045		SSOW#:	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 - EDTA Z - other (specify) Other:
Due Date Requested: 4/30/2020		Analysis Requested	
TAT Requested (days):		Total Number of Containers	
PO #:	WO #:	Form MS/MSD (Yes or No)	Moisture/Percent Moisture
Project Name: Plant Watson	Site:	Field Filtered Sample (Yes or No)	6020/3050B, 2% Uranium & Thorium
Sample Identification - Client ID (Lab ID)		Sample Time	Sample Type (C=Comp, G=grab)
DPT-5-SS RA V3 (400-187320-21)		11:30 Central	Solid
DPT-6-SS RA V2 (400-187320-22)		15:00 Central	Solid
DPT-6-SS RA V3 (400-187320-34)		15:05 Central	Solid
DPT-7-SS RA V2 (400-187320-35)		09:25 Central	Solid
DPT-7-SS RA V3 (400-187320-36)		09:30 Central	Solid
DPT-8-SS RA V2 (400-187320-37)		07:45 Central	Solid
DPT-8-SS RA V3 (400-187320-38)		07:50 Central	Solid
DPT-9-SS RA V2 (400-187320-39)		12:10 Central	Solid
DPT-9-SS RA V3 (400-187320-40)		12:15 Central	Solid
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by: _____ Date: _____			
Relinquished by: _____ Date: _____			
Relinquished by: _____ Date: _____			
Relinquished by: _____ Date: _____			
Custody Seals Intact: _____ Custody Seal No.: _____			
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <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:			
Received by: _____ Date/Time: _____			
Received by: _____ Date/Time: _____			
Received by: _____ Date/Time: _____			
Cooler Temperature(s) °C and Other Remarks:			



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-242230.3
Client Contact: Shipping/Receiving		Phone: cheyenne.whitmire@testamericainc.com	State of Origin: Mississippi	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		
Address: 13715 Rider Trail North,		Job #: 400-187320-1		
City: Earth City		Analysis Requested		
State, Zip: MO, 63045		M - Hexane		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		N - None		
Email:		B - NaOH		
Project Name: Plant Watson		C - Zn Acetate		
Site:		O - AsNaO2		
Due Date Requested: 4/30/2020		D - Nitric Acid		
TAT Requested (days):		E - NaHSO4		
PO #:		F - MeOH		
WO #:		R - Na2SO3		
Project #: 40001674		S - H2SO4		
SSOW#:		T - TSP Dodecahydrate		
Sample Identification - Client ID (Lab ID)		U - Acetone		
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swab, On-wettable, etc.)	Preservation Code:
4/24/20	13:20 Central	Solid		
4/24/20	13:25 Central	Solid		
4/21/20	Central	Solid		
4/21/20	Central	Solid		
Total Number of containers				
				2
				2
				1
				1
Special Instructions/Note:				
DPT-10-SS RA V2 (400-187320-41)				
DPT-10-SS RA V3 (400-187320-42)				
DUP-01 (400-187320-43)				
DUP-02 (400-187320-44)				

Possible Hazard Identification		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Unconfirmed		Special Instructions/QC Requirements:	
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>Kathy R...</i>		Date:	
Relinquished by: <i>FE</i>		Date/Time: 4-24-20 10:20	
Relinquished by:		Date/Time: 4-29-2020 09:03	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Chain of Custody Record

urofins

Environment Testing
 TestAmerica



Lab ID: 42229.1

400-187320 Chain of Custody

Client Contact: **Whitmore, Cheyenne R.**
 Shipping/Receiving
 E-Mail: cheyenne.whitmore@test.com
 Accreditations Required (See note):

Company: TestAmerica Laboratories, Inc.
 Address: 301 Alpha Drive, RIDC Park, Pittsburgh, PA, 15238
 Phone: 412-963-7058 (Tel) 412-963-2468 (Fax)
 Email:
 Project Name: Plant Watson
 Site:
 Project #: 40001674
 SOW#:
 PO #:
 WO #:
 Due Date Requested: 4/29/2020
 TAT Requested (days):
 Job #: 400-187320-1

Analysis Requested:
 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)
 Other:
 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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wateroil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034 Calc AVS/AVSSEM Prep AVS	Moture/ Percent Moisture	Total Number of Containers	Special Instructions/Note:
DPT-1-SS BA V2 (22-24) (400-187320-1)	4/20/20	15:55 Central	Sediment	Sediment	X	X	X	X	1	
DPT-1-SS BA V3 (38-40) (400-187320-2)	4/20/20	16:00 Central	Sediment	Sediment	X	X	X	X	1	
DPT-2-SS BA V2 (26-27) (400-187320-3)	4/21/20	11:00 Central	Sediment	Sediment	X	X	X	X	1	
DPT-2-SS BA V3 (37-38) (400-187320-4)	4/21/20	11:05 Central	Sediment	Sediment	X	X	X	X	1	
DPT-3-SS BA V2 (24-25) (400-187320-5)	4/21/20	14:20 Central	Sediment	Sediment	X	X	X	X	1	
DPT-3-SS BA V3 (29-30) (400-187320-6)	4/21/20	14:25 Central	Sediment	Sediment	X	X	X	X	1	
DPT-4-SS BA V2 (15-16) (400-187320-7)	4/21/20	17:55 Central	Sediment	Sediment	X	X	X	X	1	
DPT-4-SS BA V3 (28-29) (400-187320-8)	4/21/20	17:45 Central	Sediment	Sediment	X	X	X	X	1	
DPT-5-SS BA V2 (17-18) (400-187320-9)	4/22/20	11:25 Central	Sediment	Sediment	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2

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:	Time:	Method of Shipment:
Relinquished by: <i>Kathy Carver</i>	Date/Time: 4-28-20 1600	Company: ETA	Received by: <i>D Watson</i>
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: Yes No Δ No
 Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PVI: Whitmire, Cheyenne R		Carrier Tracking No(s): 400-242229.2							
Client Contact: Shipping/Receiving		E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 2 of 3							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 400-187320-1							
Address: 301 Alpha Drive, RIDC Park, Pittsburg, PA, 15238		Due Date Requested: 4/29/2020		Preservation Codes:							
Phone: 412-963-7058 (Tel) 412-963-2468 (Fax)		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:							
Email:		PO #:		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)							
Project Name: Plant Watson		WO #:		Total Number of Containers							
Site:		Project #: 40001674		Special Instructions/Note:							
		SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wateroil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	934 Calc AVS/AVSEM Prep AVS	Moisture/Percent Moisture	Analysis Requested	Total Number of Containers	Special Instructions/Note:
DPT-5-SS BA V3 (23-24) (400-187320-10)	4/22/20	11:30 Central		Sediment	X	X	X			1	
DPT-6-SS BA V2 (400-187320-11)	4/22/20	15:00 Central		Sediment	X	X	X			1	
DPT-6-SS BA V3 (23-24) (400-187320-23)	4/22/20	15:05 Central		Sediment	X	X	X			1	
DPT-7-SS BA V2 (18-19) (400-187320-24)	4/23/20	09:25 Central		Sediment	X	X	X			1	
DPT-7-SS BA V3 (27-28) (400-187320-25)	4/23/20	09:30 Central		Sediment	X	X	X			1	
DPT-8-SS BA V2 (25-26) (400-187320-26)	4/24/20	07:45 Central		Sediment	X	X	X			1	
DPT-8-SS BA V3 (39-40) (400-187320-27)	4/24/20	07:50 Central		Sediment	X	X	X			1	
DPT-9-SS BA V2 (27-28) (400-187320-28)	4/24/20	12:10 Central		Sediment	X	X	X			1	
DPT-9-SS BA V3 (32-33) (400-187320-29)	4/24/20	12:15 Central		Sediment	X	X	X			1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>Kathy Rawan</i>	Date: 4-28-20	Received by: <i>D. Wabson</i>	Date/Time: 4-29-20
Relinquished by:	Date/Time: 1600	Received by:	Date/Time: 8:45
Relinquished by:	Date/Time:	Received by:	Date/Time:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-1

SDG Number: Plant Watson

Login Number: 187320

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

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, 2.8°C IR-9
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	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-1

SDG Number: Plant Watson

Login Number: 187320

List Number: 2

Creator: Watson, Debbie

List Source: Eurofins TestAmerica, Pittsburgh

List Creation: 04/29/20 04:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-1

SDG Number: Plant Watson

Login Number: 187320

List Number: 3

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/29/20 09:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No ice present upon receipt.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20 *
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20 *
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-20 *
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20 *
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20 *
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

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

Eurofins TestAmerica, Pensacola



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

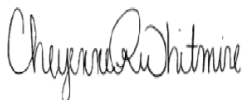
ANALYTICAL REPORT

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

Laboratory Job ID: 400-187320-2
Laboratory Sample Delivery Group: Plant Watson
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
6/19/2020 1:13:34 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.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Job ID: 400-187320-2

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-187320-2

RAD

Method 9315: Radium-226 Prep Batch 160-469589. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DPT-1-SS RA V2 (400-187320-12), DPT-1-SS RA V3 (400-187320-13), DPT-2-SS RA V2 (400-187320-14), DPT-2-SS RA V3 (400-187320-15), DPT-3-SS RA V2 (400-187320-16), DPT-3-SS RA V3 (400-187320-17), DPT-4-SS RA V2 (400-187320-18), DPT-4-SS RA V3 (400-187320-19), DPT-5-SS RA V2 (400-187320-20), DPT-5-SS RA V3 (400-187320-21), DPT-6-SS RA V2 (400-187320-22), DPT-6-SS RA V3 (400-187320-34), DPT-7-SS RA V2 (400-187320-35), DPT-7-SS RA V3 (400-187320-36), DPT-8-SS RA V2 (400-187320-37), DPT-8-SS RA V3 (400-187320-38), DPT-9-SS RA V2 (400-187320-39), DPT-9-SS RA V3 (400-187320-40), DPT-10-SS RA V2 (400-187320-41), DPT-10-SS RA V3 (400-187320-42), (LCS 160-469589/1-A), (MB 160-469589/23-A) and (400-187320-A-12-B DU)

Method 9315: Ra-226 Prep Batch 160-469806. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DUP-01 (400-187320-43), DUP-02 (400-187320-44), (LCS 160-469806/1-A), (MB 160-469806/11-A) and (400-187320-A-43-G DU)

Method 9320: Ra-228 Prep Batch 160-469648. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DPT-1-SS RA V2 (400-187320-12), DPT-1-SS RA V3 (400-187320-13), DPT-2-SS RA V2 (400-187320-14), DPT-2-SS RA V3 (400-187320-15), DPT-3-SS RA V2 (400-187320-16), DPT-3-SS RA V3 (400-187320-17), DPT-4-SS RA V2 (400-187320-18), DPT-4-SS RA V3 (400-187320-19), DPT-5-SS RA V2 (400-187320-20), DPT-5-SS RA V3 (400-187320-21), DPT-6-SS RA V2 (400-187320-22), DPT-6-SS RA V3 (400-187320-34), DPT-7-SS RA V2 (400-187320-35), DPT-7-SS RA V3 (400-187320-36), DPT-8-SS RA V2 (400-187320-37), DPT-8-SS RA V3 (400-187320-38), DPT-9-SS RA V2 (400-187320-39), DPT-9-SS RA V3 (400-187320-40), DPT-10-SS RA V2 (400-187320-41), DPT-10-SS RA V3 (400-187320-42), (LCS 160-469648/1-A), (MB 160-469648/23-A) and (400-187320-A-12-D DU)

Method 9320: Radium-228 Prep Batch: 160-469808. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DUP-01 (400-187320-43), DUP-02 (400-187320-44), (LCS 160-469808/1-A), (MB 160-469808/11-A) and (400-187320-A-43-I DU)

Method DPS-0: 400-187320-43 precipitated a very small pellet during into ingrowth. All samples will be re-prepped. DUP-01 (400-187320-43), DUP-02 (400-187320-44) and (400-187320-A-43 DU)

Method DPS-21: 400-187320-43 precipitated a very small pellet during into ingrowth. All samples will be re-prepped. DUP-01 (400-187320-43) and DUP-02 (400-187320-44)

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

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
DPS-0	Preparation, Digestion/ Precipitate	None	TAL SL
DPS-21	Preparation, Digestion/Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

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

Laboratory References:

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187320-12	DPT-1-SS RA V2	Solid	04/20/20 15:55	04/28/20 08:49	
400-187320-13	DPT-1-SS RA V3	Solid	04/20/20 16:00	04/28/20 08:49	
400-187320-14	DPT-2-SS RA V2	Solid	04/21/20 11:00	04/28/20 08:49	
400-187320-15	DPT-2-SS RA V3	Solid	04/21/20 11:05	04/28/20 08:49	
400-187320-16	DPT-3-SS RA V2	Solid	04/21/20 14:20	04/28/20 08:49	
400-187320-17	DPT-3-SS RA V3	Solid	04/21/20 14:25	04/28/20 08:49	
400-187320-18	DPT-4-SS RA V2	Solid	04/21/20 17:55	04/28/20 08:49	
400-187320-19	DPT-4-SS RA V3	Solid	04/21/20 17:45	04/28/20 08:49	
400-187320-20	DPT-5-SS RA V2	Solid	04/22/20 11:25	04/28/20 08:49	
400-187320-21	DPT-5-SS RA V3	Solid	04/22/20 11:30	04/28/20 08:49	
400-187320-22	DPT-6-SS RA V2	Solid	04/22/20 15:00	04/28/20 08:49	
400-187320-34	DPT-6-SS RA V3	Solid	04/22/20 15:05	04/28/20 08:49	
400-187320-35	DPT-7-SS RA V2	Solid	04/23/20 09:25	04/28/20 08:49	
400-187320-36	DPT-7-SS RA V3	Solid	04/23/20 09:30	04/28/20 08:49	
400-187320-37	DPT-8-SS RA V2	Solid	04/24/20 07:45	04/28/20 08:49	
400-187320-38	DPT-8-SS RA V3	Solid	04/24/20 07:50	04/28/20 08:49	
400-187320-39	DPT-9-SS RA V2	Solid	04/24/20 12:10	04/28/20 08:49	
400-187320-40	DPT-9-SS RA V3	Solid	04/24/20 12:15	04/28/20 08:49	
400-187320-41	DPT-10-SS RA V2	Solid	04/24/20 13:20	04/28/20 08:49	
400-187320-42	DPT-10-SS RA V3	Solid	04/24/20 13:25	04/28/20 08:49	
400-187320-43	DUP-01	Solid	04/21/20 00:00	04/28/20 08:49	
400-187320-44	DUP-02	Solid	04/21/20 00:00	04/28/20 08:49	

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.315		0.106	0.110	1.00	0.0887	pCi/g	05/05/20 12:32	05/28/20 04:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					05/05/20 12:32	05/28/20 04:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.608		0.275	0.280	1.00	0.397	pCi/g	05/05/20 13:22	05/20/20 15:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					05/05/20 13:22	05/20/20 15:37	1
Y Carrier	84.1		40 - 110					05/05/20 13:22	05/20/20 15:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.923		0.29	0.30	5.00	0.397	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.272		0.101	0.104	1.00	0.0883	pCi/g	05/05/20 12:32	05/28/20 04:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					05/05/20 12:32	05/28/20 04:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.515		0.288	0.292	1.00	0.434	pCi/g	05/05/20 13:22	05/20/20 15:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					05/05/20 13:22	05/20/20 15:37	1
Y Carrier	82.2		40 - 110					05/05/20 13:22	05/20/20 15:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.786		0.305	0.310	5.00	0.434	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.706		0.177	0.188	1.00	0.149	pCi/g	05/05/20 12:32	05/28/20 04:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.5		40 - 110					05/05/20 12:32	05/28/20 04:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.840		0.309	0.318	1.00	0.412	pCi/g	05/05/20 13:22	05/20/20 15:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.5		40 - 110					05/05/20 13:22	05/20/20 15:37	1
Y Carrier	84.1		40 - 110					05/05/20 13:22	05/20/20 15:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.55		0.356	0.369	5.00	0.412	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00380	U	0.0477	0.0477	1.00	0.0991	pCi/g	05/05/20 12:32	05/28/20 04:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					05/05/20 12:32	05/28/20 04:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.158	U	0.221	0.222	1.00	0.370	pCi/g	05/05/20 13:22	05/20/20 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					05/05/20 13:22	05/20/20 15:38	1
Y Carrier	87.5		40 - 110					05/05/20 13:22	05/20/20 15:38	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	0.162	U	0.226	0.227	5.00	0.370	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.510		0.130	0.138	1.00	0.0879	pCi/g	05/05/20 12:32	05/28/20 04:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					05/05/20 12:32	05/28/20 04:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.760		0.274	0.283	1.00	0.368	pCi/g	05/05/20 13:22	05/20/20 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					05/05/20 13:22	05/20/20 15:38	1
Y Carrier	79.6		40 - 110					05/05/20 13:22	05/20/20 15:38	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	1.27		0.303	0.315	5.00	0.368	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0467	U	0.0724	0.0726	1.00	0.124	pCi/g	05/05/20 12:32	05/28/20 04:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					05/05/20 12:32	05/28/20 04:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.144	U	0.204	0.204	1.00	0.341	pCi/g	05/05/20 13:22	05/20/20 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					05/05/20 13:22	05/20/20 15:38	1
Y Carrier	86.4		40 - 110					05/05/20 13:22	05/20/20 15:38	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	0.191	U	0.216	0.217	5.00	0.341	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.292		0.0995	0.103	1.00	0.0829	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.2		40 - 110					05/05/20 12:32	05/28/20 04:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.428		0.208	0.212	1.00	0.297	pCi/g	05/05/20 13:22	05/20/20 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.2		40 - 110					05/05/20 13:22	05/20/20 15:38	1
Y Carrier	87.5		40 - 110					05/05/20 13:22	05/20/20 15:38	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	0.721		0.231	0.236	5.00	0.297	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

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	0.0547	0.0548	1.00	0.0931	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		40 - 110					05/05/20 12:32	05/28/20 04:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.123	U	0.257	0.257	1.00	0.438	pCi/g	05/05/20 13:22	05/20/20 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		40 - 110					05/05/20 13:22	05/20/20 15:38	1
Y Carrier	86.0		40 - 110					05/05/20 13:22	05/20/20 15:38	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	0.162	U	0.263	0.263	5.00	0.438	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.307		0.104	0.107	1.00	0.0849	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					05/05/20 12:32	05/28/20 04:35	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	U	0.259	0.261	1.00	0.405	pCi/g	05/05/20 13:22	05/20/20 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					05/05/20 13:22	05/20/20 15:39	1
Y Carrier	84.1		40 - 110					05/05/20 13:22	05/20/20 15:39	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	0.661		0.279	0.282	5.00	0.405	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.133		0.0779	0.0788	1.00	0.0875	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.9		40 - 110					05/05/20 12:32	05/28/20 04:35	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	0.252	0.253	1.00	0.410	pCi/g	05/05/20 13:22	05/20/20 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.9		40 - 110					05/05/20 13:22	05/20/20 15:39	1
Y Carrier	83.0		40 - 110					05/05/20 13:22	05/20/20 15:39	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	0.370	U	0.264	0.265	5.00	0.410	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.475		0.127	0.134	1.00	0.0858	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					05/05/20 12:32	05/28/20 04:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.767		0.295	0.303	1.00	0.403	pCi/g	05/05/20 13:22	05/20/20 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					05/05/20 13:22	05/20/20 15:39	1
Y Carrier	78.5		40 - 110					05/05/20 13:22	05/20/20 15:39	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	1.24		0.321	0.331	5.00	0.403	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0201	U	0.0452	0.0452	1.00	0.0852	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					05/05/20 12:32	05/28/20 04:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00443	U	0.218	0.218	1.00	0.392	pCi/g	05/05/20 13:22	05/20/20 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					05/05/20 13:22	05/20/20 15:39	1
Y Carrier	84.5		40 - 110					05/05/20 13:22	05/20/20 15:39	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	0.0245	U	0.223	0.223	5.00	0.392	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.433		0.123	0.129	1.00	0.0873	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					05/05/20 12:32	05/28/20 04:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.547		0.294	0.298	1.00	0.444	pCi/g	05/05/20 13:22	05/20/20 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					05/05/20 13:22	05/20/20 15:39	1
Y Carrier	86.4		40 - 110					05/05/20 13:22	05/20/20 15:39	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	0.980		0.319	0.325	5.00	0.444	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.333		0.108	0.112	1.00	0.0904	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					05/05/20 12:32	05/28/20 04:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.406		0.260	0.263	1.00	0.400	pCi/g	05/05/20 13:22	05/20/20 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					05/05/20 13:22	05/20/20 15:39	1
Y Carrier	84.9		40 - 110					05/05/20 13:22	05/20/20 15:39	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	0.739		0.282	0.286	5.00	0.400	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.311		0.109	0.112	1.00	0.0993	pCi/g	05/05/20 12:32	05/28/20 04:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					05/05/20 12:32	05/28/20 04:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.439		0.235	0.238	1.00	0.347	pCi/g	05/05/20 13:22	05/20/20 15:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					05/05/20 13:22	05/20/20 15:40	1
Y Carrier	86.7		40 - 110					05/05/20 13:22	05/20/20 15:40	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	0.751		0.259	0.263	5.00	0.347	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.364		0.116	0.121	1.00	0.0994	pCi/g	05/05/20 12:32	05/28/20 04:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					05/05/20 12:32	05/28/20 04:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.480		0.260	0.264	1.00	0.387	pCi/g	05/05/20 13:22	05/20/20 15:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					05/05/20 13:22	05/20/20 15:40	1
Y Carrier	83.0		40 - 110					05/05/20 13:22	05/20/20 15:40	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	0.844		0.285	0.290	5.00	0.387	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.459		0.126	0.133	1.00	0.0973	pCi/g	05/05/20 12:32	05/28/20 04:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					05/05/20 12:32	05/28/20 04:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.497		0.265	0.269	1.00	0.397	pCi/g	05/05/20 13:22	05/20/20 15:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					05/05/20 13:22	05/20/20 15:41	1
Y Carrier	83.4		40 - 110					05/05/20 13:22	05/20/20 15:41	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	0.956		0.293	0.300	5.00	0.397	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0899	U	0.0778	0.0783	1.00	0.117	pCi/g	05/05/20 12:32	05/28/20 04:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					05/05/20 12:32	05/28/20 04:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.302	U	0.253	0.255	1.00	0.404	pCi/g	05/05/20 13:22	05/20/20 15:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					05/05/20 13:22	05/20/20 15:41	1
Y Carrier	83.4		40 - 110					05/05/20 13:22	05/20/20 15:41	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	0.392	U	0.265	0.267	5.00	0.404	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.428		0.124	0.130	1.00	0.0985	pCi/g	05/05/20 12:32	05/28/20 04:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					05/05/20 12:32	05/28/20 04:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.618		0.267	0.273	1.00	0.385	pCi/g	05/05/20 13:22	05/20/20 15:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					05/05/20 13:22	05/20/20 15:42	1
Y Carrier	88.6		40 - 110					05/05/20 13:22	05/20/20 15:42	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	1.05		0.29	0.30	5.00	0.385	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0708	U	0.0768	0.0770	1.00	0.123	pCi/g	05/05/20 12:32	05/28/20 04:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					05/05/20 12:32	05/28/20 04:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.125	U	0.218	0.219	1.00	0.370	pCi/g	05/05/20 13:22	05/20/20 15:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					05/05/20 13:22	05/20/20 15:42	1
Y Carrier	87.9		40 - 110					05/05/20 13:22	05/20/20 15:42	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	0.196	U	0.231	0.232	5.00	0.370	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DUP-01

Lab Sample ID: 400-187320-43

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0447	U	0.0642	0.0643	1.00	0.109	pCi/g	05/07/20 11:59	06/01/20 04:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					05/07/20 11:59	06/01/20 04:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.179	U	0.296	0.297	1.00	0.500	pCi/g	05/07/20 12:23	05/19/20 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					05/07/20 12:23	05/19/20 14:39	1
Y Carrier	87.1		40 - 110					05/07/20 12:23	05/19/20 14:39	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	0.224	U	0.303	0.304	5.00	0.500	pCi/g		06/01/20 08:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DUP-02

Lab Sample ID: 400-187320-44

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.716		0.145	0.159	1.00	0.0978	pCi/g	05/07/20 11:59	06/01/20 04:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					05/07/20 11:59	06/01/20 04:48	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		0.282	0.289	1.00	0.397	pCi/g	05/07/20 12:23	05/19/20 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					05/07/20 12:23	05/19/20 14:39	1
Y Carrier	87.9		40 - 110					05/07/20 12:23	05/19/20 14:39	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	1.39		0.317	0.330	5.00	0.397	pCi/g		06/01/20 08:25	1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Qualifiers

Rad

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:34	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:37	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:34	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:37	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:34	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:37	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:34	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:38	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:34	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:38	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:34	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:38	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:38	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:38	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:39	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:39	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:39	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:39	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:39	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:39	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:36	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:40	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:36	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:40	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:36	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470958	05/20/20 15:41	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:36	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470958	05/20/20 15:41	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:36	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470958	05/20/20 15:42	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471357	05/28/20 04:41	CJQ	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470958	05/20/20 15:42	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DUP-01

Date Collected: 04/21/20 00:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-43

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:48	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 14:39	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Client Sample ID: DUP-02

Date Collected: 04/21/20 00:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-44

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:48	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 14:39	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Rad

Prep Batch: 469589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	DPS-21	
MB 160-469589/23-A	Method Blank	Total/NA	Solid	DPS-21	
LCS 160-469589/1-A	Lab Control Sample	Total/NA	Solid	DPS-21	
400-187320-12 DU	DPT-1-SS RA V2	Total/NA	Solid	DPS-21	

Prep Batch: 469648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	DPS-0	
MB 160-469648/23-A	Method Blank	Total/NA	Solid	DPS-0	
LCS 160-469648/1-A	Lab Control Sample	Total/NA	Solid	DPS-0	
400-187320-12 DU	DPT-1-SS RA V2	Total/NA	Solid	DPS-0	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Rad

Prep Batch: 469806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-43	DUP-01	Total/NA	Solid	DPS-21	
400-187320-44	DUP-02	Total/NA	Solid	DPS-21	
MB 160-469806/11-A	Method Blank	Total/NA	Solid	DPS-21	
LCS 160-469806/1-A	Lab Control Sample	Total/NA	Solid	DPS-21	
400-187320-43 DU	DUP-01	Total/NA	Solid	DPS-21	

Prep Batch: 469808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-43	DUP-01	Total/NA	Solid	DPS-0	
400-187320-44	DUP-02	Total/NA	Solid	DPS-0	
MB 160-469808/11-A	Method Blank	Total/NA	Solid	DPS-0	
LCS 160-469808/1-A	Lab Control Sample	Total/NA	Solid	DPS-0	
400-187320-43 DU	DUP-01	Total/NA	Solid	DPS-0	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-469589/23-A
Matrix: Solid
Analysis Batch: 471357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469589

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.008726	U	0.0598	0.0598	1.00	0.118	pCi/g	05/05/20 12:32	05/28/20 04:41	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					05/05/20 12:32	05/28/20 04:41	1

Lab Sample ID: LCS 160-469589/1-A
Matrix: Solid
Analysis Batch: 471356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469589

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.397		1.01	1.00	0.0867	pCi/g	83	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	81.0		40 - 110						

Lab Sample ID: 400-187320-12 DU
Matrix: Solid
Analysis Batch: 471356

Client Sample ID: DPT-1-SS RA V2
Prep Type: Total/NA
Prep Batch: 469589

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.315		0.4285		0.127	1.00	0.0803	pCi/g	0.48	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	87.9		40 - 110							

Lab Sample ID: MB 160-469806/11-A
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469806

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.008328	U	0.0616	0.0616	1.00	0.119	pCi/g	05/07/20 11:59	06/01/20 04:49	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					05/07/20 11:59	06/01/20 04:49	1

Lab Sample ID: LCS 160-469806/1-A
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469806

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.26		1.06	1.00	0.105	pCi/g	90	75 - 125

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-469806/1-A
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469806

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.3		40 - 110

Lab Sample ID: 400-187320-43 DU
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 469806

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-226	0.0447	U	0.09564	U	0.0783	1.00	0.116	pCi/g	0.36	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	85.8		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-469648/23-A
Matrix: Solid
Analysis Batch: 470958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469648

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110	05/05/20 13:22	05/20/20 15:42	1
Y Carrier	89.3		40 - 110	05/05/20 13:22	05/20/20 15:42	1

Lab Sample ID: LCS 160-469648/1-A
Matrix: Solid
Analysis Batch: 470938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469648

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									Radium-228	8.82

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	81.0		40 - 110
Y Carrier	81.5		40 - 110

Lab Sample ID: 400-187320-12 DU
Matrix: Solid
Analysis Batch: 470938

Client Sample ID: DPT-1-SS RA V2
Prep Type: Total/NA
Prep Batch: 469648

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-228	0.608		0.2447	U	0.248	1.00	0.401	pCi/g	0.69	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

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

Lab Sample ID: 400-187320-12 DU
Matrix: Solid
Analysis Batch: 470938

Client Sample ID: DPT-1-SS RA V2
Prep Type: Total/NA
Prep Batch: 469648

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	87.9		40 - 110
Y Carrier	85.2		40 - 110

Lab Sample ID: MB 160-469808/11-A
Matrix: Solid
Analysis Batch: 470898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469808

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.01823	U	0.221	0.221	1.00	0.398	pCi/g	05/07/20 12:23	05/19/20 14:41	1
Carrier	%Yield	Qualifier	Limits			Prepared	Analyzed		Dil Fac	
Ba Carrier	88.6		40 - 110			05/07/20 12:23	05/19/20 14:41		1	
Y Carrier	84.5		40 - 110			05/07/20 12:23	05/19/20 14:41		1	

Lab Sample ID: LCS 160-469808/1-A
Matrix: Solid
Analysis Batch: 470884

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469808

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									%Rec	Limit
Radium-228	8.83	6.592		0.864	1.00	0.437	pCi/g	75	75 - 125	
Carrier	%Yield	LCS Qualifier	Limits							
Ba Carrier	91.3		40 - 110							
Y Carrier	88.6		40 - 110							

Lab Sample ID: 400-187320-43 DU
Matrix: Solid
Analysis Batch: 470884

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 469808

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER	Limit
	Result	Qual								RER	Limit
Radium-228	0.179	U	0.3086	U	0.283	1.00	0.453	pCi/g		0.22	1
Carrier	DU %Yield	DU Qualifier	Limits								
Ba Carrier	85.8		40 - 110								
Y Carrier	87.1		40 - 110								

Chain of Custody Record



Environmental Testing
 TestAmerica

Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colomade Parkway Bin S 530 EC Birmingham State: AL, Zip: 35243 Phone: 205-992-6283(Tel) Email: laparker@southernco.com Project Name: Plant Watson Site: Plant Watson		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com		Garmer Tracking No(s): COC No: 400-93871-34057.5 Page: Page 5 of 6 Job #:	
Supplier: Nathan Quirk Phone: 985-204-5408		Analysis Requested 9315_Ra226 - Radium 226 9320_Ra228 - Radium 228 Ra226Ra228_GFP - Radium 226 + Radium 228 6020 - Uranium & Thorium 9315_Ra226, 9320_Ra228 SM4500_S2_D - Sulfide, Total SM4500_S04_E - Sulfate, Total 9034_Calc_AVS_Moisture Perform MS/MSD (Yes or No)			
Due Date Requested: 4/27/2020 TAT Requested (days): 14 PO #: SCS10382606 WO #:		Field Filtered Sample (Yes or No)			
Sample Identification DPT-1-SS Ba U2 (22-24) DPT-1-SS Ba U3 (38-40) DPT-2-SS Ba U2 (20-27) DPT-2-SS Ba U3 (37-38) DPT-3-SS Ba U2 (24-25) DPT-3-SS Ba U3 (29-30) DPT-4-SS Ba U2 (15-16) DPT-4-SS Ba U3 (28-29) DPT-5-SS Ba U2 (17-18) DPT-5-SS Ba U3 (23-24) DPT-6-SS Ba U2		Sample Date 4/20/20 ↓ 4/21/20 ↓ 4/22/20 ↓		Sample Time 1555 ↓ 1600 ↓ 1755 ↓ 1125 ↓ 1500	
Matrix (W=water, S=solid, O=wastewat, BT=tissue, A=air) Preservation Code:		Total Number of Containers			
Special Instructions/Note: Baton Rouge 218		Special Instructions/Note: 400-187320 COC			
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: [Signature] Date: 4/27-20 0600 Company: [Signature]		Received by: [Signature] Date: 4/27/2020 1145 Company: [Signature]			
Relinquished by: [Signature] Date: 4/27-20 1145 Company: [Signature]		Received by: [Signature] Date: 4/28/20 849 Company: [Signature]			
Relinquished by: [Signature] Date: 4/27/2020 84 Company: [Signature]		Received by: [Signature] Date: 4/28/20 849 Company: [Signature]			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.8°C JCG			



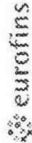
Chain of Custody Record

Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 (Tel) Email: laparker@southernco.com Project Name: Plant Watson Site:		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-93871-34057.5 Page: Page 5 of 6 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 40001674 SSON#:		Analysis Requested 9034 Calc AVS, Moisture 5M4500_S04_E - Sulfate, Total 5M4500_S2_D - Sulfide, Total 9315_Ra226, 9320_Ra228 6020 - Uranium & Thorium Ra226Ra228_GFP - Combined Radium-226 and Radium-228 228 Moisture - Percent Moisture 9315_Ra226 - Radium 226 9320_Ra228 - Radium 228 Ra226Ra228_GFP - Radium 226 + Radium 228 Total Number of Containers	
Sample Identification DPT-1-SS Ra U2 DPT-2-SS Ra U3 DPT-2-SS Ra U2 DPT-2-SS Ra U3 DPT-3-SS Ra U2 DPT-3-SS Ra U3 DPT-4-SS Ra U2 DPT-4-SS Ra U3 DPT-5-SS Ra U2 DPT-5-SS Ra U3 DPT-U-SS Ra U2		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) Sample Type (C=Comp, G=grab) Sample Time Sample Date Preservation Code: Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	
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:		Method of Shipment:	
Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i>		Date/Time: 4-27-20 0600 Date/Time: 4/27/2020 1145 Date/Time: 4/28/20 849	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Baton Rouge
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Chain of Custody Record



Environmental Testing
Test Methods

Client Information
 Client Contact: Lauren Parker
 Company: Southern Company
 Address: 3535 Colonnade Parkway Bin 530 EC
 City: Birmingham
 State, Zip: AL, 35243
 Phone: 205-992-6283 (Tel)
 Email: laparker@southernco.com
 Project Name: Plant Watson
 Site: Plant Watson

Sampler
 Name: Nathan Quirk
 Phone: 985-264-5418
 Lab PM: Whitmire, Chyanne R
 E-Mail: chyanne.whitmire@testamericainc.com

Due Date Requested:
 TAT Requested (days): 10
 PO #: SCS10382606
 WO #: 40001674
 Project #: 40001674
 SSW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034 Calc_AVS, Moisture	SM4500_S04_E - Sulfate, Total	SM4500_S2_D - Sulfide, Total	9315_Ra226, 9320_Ra228	6020 - Uranium & Thorium	Ra226Ra228_GFC - Combined Radium-226 and Radium-228	Moisture - Percent Moisture	9315_Ra226 - Radium 226	9320_Ra228 - Radium 228	Ra226Ra228_GFC - Radium 226 + Radium 228	Total Number of Containers	Special Instructions/Note:
DPT-6-SS Ba U3 (23-24)	4/22/20	1505	G	Solid	Y	Y												
DPT-7-SS Ba U2 (18-19)	4/23/20	0925		Solid	Y	Y												
DPT-7-SS Ba U3 (27-28)		0930		Solid	Y	Y												
DPT-8-SS Ba U2 (25-26)	4/24/20	0745		Solid	Y	Y												
DPT-8-SS Ba U3 (39-40)		0750		Solid	Y	Y												
DPT-9-SS Ba U2 (27-28)		1210		Solid	Y	Y												
DPT-9-SS Ba U3 (32-33)		1215		Solid	Y	Y												
DPT-10-SS Ba U2 (22-23)		1320		Solid	Y	Y												
DPT-10-SS Ba U3 (25-26)		1325		Solid	Y	Y												
DPT-01	4/21/20	0100		Solid	Y	Y												
DPT-02		0000		Solid	Y	Y												

Baton Rouge
218

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

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

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

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *Nathan Quirk* Date: 4-27-20 600 Company: *Southern*

Relinquished by: *Chyanne R. Whitmire* Date: 4-27-20 1145 Company: *Southern*

Relinquished by: *Chyanne R. Whitmire* Date: 4/27/2020 849 Company: *Southern*

Custody Seal No.: Yes No

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-2

SDG Number: Plant Watson

Login Number: 187320

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

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, 2.8°C IR-9
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	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-2

SDG Number: Plant Watson

Login Number: 187320

List Number: 3

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/29/20 09:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No ice present upon receipt.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-21
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Method: 9315 - Radium-226 (GFPC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba Carrier (40-110)	Y Carrier (40-110)
400-187320-12	DPT-1-SS RA V2	89.1	
400-187320-12 DU	DPT-1-SS RA V2	87.9	
400-187320-13	DPT-1-SS RA V3	84.0	
400-187320-14	DPT-2-SS RA V2	74.5	
400-187320-15	DPT-2-SS RA V3	90.7	
400-187320-16	DPT-3-SS RA V2	91.8	
400-187320-17	DPT-3-SS RA V3	93.0	
400-187320-18	DPT-4-SS RA V2	94.2	
400-187320-19	DPT-4-SS RA V3	81.3	
400-187320-20	DPT-5-SS RA V2	87.3	
400-187320-21	DPT-5-SS RA V3	75.9	
400-187320-22	DPT-6-SS RA V2	87.3	
400-187320-34	DPT-6-SS RA V3	87.6	
400-187320-35	DPT-7-SS RA V2	87.3	
400-187320-36	DPT-7-SS RA V3	89.4	
400-187320-37	DPT-8-SS RA V2	91.8	
400-187320-38	DPT-8-SS RA V3	88.5	
400-187320-39	DPT-9-SS RA V2	93.0	
400-187320-40	DPT-9-SS RA V3	89.2	
400-187320-41	DPT-10-SS RA V2	91.5	
400-187320-42	DPT-10-SS RA V3	88.2	
400-187320-43	DUP-01	82.5	
400-187320-43 DU	DUP-01	85.8	
400-187320-44	DUP-02	96.5	
LCS 160-469589/1-A	Lab Control Sample	81.0	
LCS 160-469806/1-A	Lab Control Sample	91.3	
MB 160-469589/23-A	Method Blank	87.7	
MB 160-469806/11-A	Method Blank	88.6	

Tracer/Carrier Legend
Ba Carrier = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba Carrier (40-110)	Y Carrier (40-110)
400-187320-12	DPT-1-SS RA V2	89.1	84.1
400-187320-12 DU	DPT-1-SS RA V2	87.9	85.2
400-187320-13	DPT-1-SS RA V3	84.0	82.2
400-187320-14	DPT-2-SS RA V2	74.5	84.1
400-187320-15	DPT-2-SS RA V3	90.7	87.5
400-187320-16	DPT-3-SS RA V2	91.8	79.6
400-187320-17	DPT-3-SS RA V3	93.0	86.4
400-187320-18	DPT-4-SS RA V2	94.2	87.5
400-187320-19	DPT-4-SS RA V3	81.3	86.0
400-187320-20	DPT-5-SS RA V2	87.3	84.1
400-187320-21	DPT-5-SS RA V3	75.9	83.0
400-187320-22	DPT-6-SS RA V2	87.3	78.5

Tracer/Carrier Summary

Client: Southern Company
 Project/Site: Plant Watson

Job ID: 400-187320-2
 SDG: Plant Watson

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba Carrier (40-110)	Y Carrier (40-110)
400-187320-34	DPT-6-SS RA V3	87.6	84.5
400-187320-35	DPT-7-SS RA V2	87.3	86.4
400-187320-36	DPT-7-SS RA V3	89.4	84.9
400-187320-37	DPT-8-SS RA V2	91.8	86.7
400-187320-38	DPT-8-SS RA V3	88.5	83.0
400-187320-39	DPT-9-SS RA V2	93.0	83.4
400-187320-40	DPT-9-SS RA V3	89.2	83.4
400-187320-41	DPT-10-SS RA V2	91.5	88.6
400-187320-42	DPT-10-SS RA V3	88.2	87.9
400-187320-43	DUP-01	82.5	87.1
400-187320-43 DU	DUP-01	85.8	87.1
400-187320-44	DUP-02	96.5	87.9
LCS 160-469648/1-A	Lab Control Sample	81.0	81.5
LCS 160-469808/1-A	Lab Control Sample	91.3	88.6
MB 160-469648/23-A	Method Blank	87.7	89.3
MB 160-469808/11-A	Method Blank	88.6	84.5

Tracer/Carrier Legend

Ba Carrier = Ba Carrier

Y Carrier = Y Carrier

ANALYTICAL REPORT

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

Laboratory Job ID: 400-187320-3
Laboratory Sample Delivery Group: Plant Watson
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
6/19/2020 1:14:04 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, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Job ID: 400-187320-3

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-187320-3

Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-471675 and analytical batch 160-471679 were outside control limits for lithium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (400-187320-B-12-E MS) and (400-187320-B-12-F MSD)

Method 6020: preparation batch 160-471675 and analytical batch 160-471679 The MS (MSD) recovery and precision for antimony is outside the established QC limits. The MS/MSD is a multiple element spiking solution. All other elements in the spiking solution are either within acceptable criteria or have acceptable precision. This indicates potential matrix interference in the sample. Method performance is demonstrated by acceptable LCS recovery. No further action is required. (400-187320-B-12-E MS) and (400-187320-B-12-F MSD)

Method 6020: preparation batch 160-471675 and 160-471676 and analytical batch 160-471679 Due to linear range check (LRC) failures, the linear range for arsenic (200ppb) and molybdenum (100ppb) has been lowered to the concentration of the highest calibration standard. The LCS and MS/MSD were above the linear range, but were within acceptable recovery limits. (LCSSRM 160-471676/3-A), (400-187320-B-12-E MS), (400-187320-B-12-F MSD), (400-187320-A-43-O MS) and (400-187320-A-43-P MSD)

Client requested App III metals list added.

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SL
3050B	Preparation, Metals	SW846	TAL SL

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187320-12	DPT-1-SS RA V2	Solid	04/20/20 15:55	04/28/20 08:49	
400-187320-13	DPT-1-SS RA V3	Solid	04/20/20 16:00	04/28/20 08:49	
400-187320-14	DPT-2-SS RA V2	Solid	04/21/20 11:00	04/28/20 08:49	
400-187320-15	DPT-2-SS RA V3	Solid	04/21/20 11:05	04/28/20 08:49	
400-187320-16	DPT-3-SS RA V2	Solid	04/21/20 14:20	04/28/20 08:49	
400-187320-17	DPT-3-SS RA V3	Solid	04/21/20 14:25	04/28/20 08:49	
400-187320-18	DPT-4-SS RA V2	Solid	04/21/20 17:55	04/28/20 08:49	
400-187320-19	DPT-4-SS RA V3	Solid	04/21/20 17:45	04/28/20 08:49	
400-187320-20	DPT-5-SS RA V2	Solid	04/22/20 11:25	04/28/20 08:49	
400-187320-21	DPT-5-SS RA V3	Solid	04/22/20 11:30	04/28/20 08:49	
400-187320-22	DPT-6-SS RA V2	Solid	04/22/20 15:00	04/28/20 08:49	
400-187320-34	DPT-6-SS RA V3	Solid	04/22/20 15:05	04/28/20 08:49	
400-187320-35	DPT-7-SS RA V2	Solid	04/23/20 09:25	04/28/20 08:49	
400-187320-36	DPT-7-SS RA V3	Solid	04/23/20 09:30	04/28/20 08:49	
400-187320-37	DPT-8-SS RA V2	Solid	04/24/20 07:45	04/28/20 08:49	
400-187320-38	DPT-8-SS RA V3	Solid	04/24/20 07:50	04/28/20 08:49	
400-187320-39	DPT-9-SS RA V2	Solid	04/24/20 12:10	04/28/20 08:49	
400-187320-40	DPT-9-SS RA V3	Solid	04/24/20 12:15	04/28/20 08:49	
400-187320-41	DPT-10-SS RA V2	Solid	04/24/20 13:20	04/28/20 08:49	
400-187320-42	DPT-10-SS RA V3	Solid	04/24/20 13:25	04/28/20 08:49	
400-187320-43	DUP-01	Solid	04/21/20 00:00	04/28/20 08:49	
400-187320-44	DUP-02	Solid	04/21/20 00:00	04/28/20 08:49	

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.226	U F1 F2	0.564	0.226	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Arsenic	4.17		1.13	0.451	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Barium	10.6		2.26	0.564	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Beryllium	0.149		0.113	0.0451	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Cadmium	0.0271	U	0.0564	0.0271	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Chromium	7.51		1.13	0.508	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Cobalt	0.285		0.226	0.0846	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Lead	4.09		0.338	0.141	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Lithium	2.85	F1	1.13	0.451	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Molybdenum	0.721		0.564	0.226	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Selenium	0.566		0.564	0.361	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Thallium	0.226	U	0.564	0.226	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 74.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.256	U	0.640	0.256	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Arsenic	0.512	U	1.28	0.512	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Barium	8.07		2.56	0.640	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Beryllium	0.217		0.128	0.0512	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Cadmium	0.0307	U	0.0640	0.0307	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Chromium	2.30		1.28	0.576	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Cobalt	0.936		0.256	0.0960	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Lead	3.29		0.384	0.160	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Lithium	1.26	J	1.28	0.512	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Molybdenum	0.471	J	0.640	0.256	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Selenium	0.410	U	0.640	0.410	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Thallium	0.256	U	0.640	0.256	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 70.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.279	U	0.697	0.279	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Arsenic	0.735	J	1.39	0.558	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Barium	83.7		2.79	0.697	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Beryllium	0.617		0.139	0.0558	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Cadmium	0.0335	U	0.0697	0.0335	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Chromium	3.24		1.39	0.627	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Cobalt	0.110	J	0.279	0.105	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Lead	13.1		0.418	0.174	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Lithium	2.42		1.39	0.558	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Molybdenum	0.279	U	0.697	0.279	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Selenium	1.31		0.697	0.446	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Thallium	0.279	U	0.697	0.279	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.257	U	0.643	0.257	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Arsenic	0.514	U	1.29	0.514	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Barium	2.23	J	2.57	0.643	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Beryllium	0.0514	U	0.129	0.0514	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Cadmium	0.0309	U	0.0643	0.0309	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Chromium	1.29		1.29	0.579	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Cobalt	0.215	J	0.257	0.0964	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Lead	0.629		0.386	0.161	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Lithium	0.514	U	1.29	0.514	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Molybdenum	0.257	U	0.643	0.257	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Selenium	0.411	U	0.643	0.411	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Thallium	0.257	U	0.643	0.257	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 60.9

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.300	U	0.751	0.300	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Arsenic	5.10		1.50	0.601	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Barium	65.8		3.00	0.751	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Beryllium	0.853		0.150	0.0601	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Cadmium	0.222		0.0751	0.0361	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Chromium	9.84		1.50	0.676	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Cobalt	13.5		0.300	0.113	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Lead	9.68		0.451	0.188	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Lithium	3.28		1.50	0.601	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Molybdenum	0.813		0.751	0.300	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Selenium	1.45		0.751	0.481	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Thallium	0.300	U	0.751	0.300	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.221	U	0.554	0.221	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Arsenic	4.52		1.11	0.443	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Barium	2.42		2.21	0.554	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Beryllium	0.0483	J	0.111	0.0443	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Cadmium	0.0332	J	0.0554	0.0266	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Chromium	1.09	J	1.11	0.498	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Cobalt	6.64		0.221	0.0830	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Lead	0.925		0.332	0.138	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Lithium	0.875	J	1.11	0.443	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Molybdenum	0.553	J	0.554	0.221	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Selenium	0.354	U	0.554	0.354	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Thallium	0.221	U	0.554	0.221	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 39.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.478	U	1.20	0.478	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Arsenic	6.93		2.39	0.957	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Barium	176		4.78	1.20	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Beryllium	0.197	J	0.239	0.0957	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Cadmium	0.0574	U	0.120	0.0574	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Chromium	8.01		2.39	1.08	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Cobalt	1.70		0.478	0.179	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Lead	3.23		0.718	0.299	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Lithium	3.73		2.39	0.957	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Molybdenum	3.53		1.20	0.478	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Selenium	1.15	J	1.20	0.766	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Thallium	0.478	U	1.20	0.478	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 86.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.213	U	0.532	0.213	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Arsenic	0.425	U	1.06	0.425	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Barium	4.19		2.13	0.532	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Beryllium	0.0425	U	0.106	0.0425	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Cadmium	0.0255	U	0.0532	0.0255	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Chromium	0.479	U	1.06	0.479	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Cobalt	0.150	J	0.213	0.0798	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Lead	0.512		0.319	0.133	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Lithium	0.530	J	1.06	0.425	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Molybdenum	0.213	U	0.532	0.213	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Selenium	0.340	U	0.532	0.340	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Thallium	0.213	U	0.532	0.213	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 71.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.233	U	0.583	0.233	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Arsenic	1.28		1.17	0.467	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Barium	60.3		2.33	0.583	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Beryllium	0.331		0.117	0.0467	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Cadmium	0.0280	U	0.0583	0.0280	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Chromium	5.96		1.17	0.525	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Cobalt	0.743		0.233	0.0875	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Lead	7.82		0.350	0.146	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Lithium	2.40		1.17	0.467	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Molybdenum	0.233	U	0.583	0.233	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Selenium	0.744		0.583	0.373	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Thallium	0.233	U	0.583	0.233	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.218	U	0.546	0.218	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Arsenic	0.437	U	1.09	0.437	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Barium	6.64		2.18	0.546	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Beryllium	0.0437	U	0.109	0.0437	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Cadmium	0.0262	U	0.0546	0.0262	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Chromium	0.629	J	1.09	0.491	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Cobalt	0.0819	U	0.218	0.0819	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Lead	0.436		0.327	0.136	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Lithium	0.437	U	1.09	0.437	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Molybdenum	0.263	J	0.546	0.218	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Selenium	0.349	U	0.546	0.349	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Thallium	0.218	U	0.546	0.218	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 65.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.293	U	0.733	0.293	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Arsenic	1.75		1.47	0.587	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Barium	20.5		2.93	0.733	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Beryllium	0.192		0.147	0.0587	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Cadmium	0.0352	U	0.0733	0.0352	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Chromium	7.74		1.47	0.660	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Cobalt	1.08		0.293	0.110	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Lead	10.1		0.440	0.183	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Lithium	2.79		1.47	0.587	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Molybdenum	0.536	J	0.733	0.293	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Selenium	0.848		0.733	0.469	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Thallium	0.293	U	0.733	0.293	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.220	U	0.549	0.220	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Arsenic	0.963	J	1.10	0.439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Barium	2.22		2.20	0.549	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Beryllium	0.0472	J	0.110	0.0439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Cadmium	0.0263	U	0.0549	0.0263	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Chromium	0.642	J	1.10	0.494	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Cobalt	0.0979	J	0.220	0.0823	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Lead	0.405		0.329	0.137	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Lithium	0.462	J	1.10	0.439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Molybdenum	3.14		0.549	0.220	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Selenium	0.351	U	0.549	0.351	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Thallium	0.220	U	0.549	0.220	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 76.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.233	U	0.583	0.233	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Arsenic	2.00		1.17	0.467	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Barium	20.4		2.33	0.583	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Beryllium	0.248		0.117	0.0467	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Cadmium	0.0280	U	0.0583	0.0280	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Chromium	6.02		1.17	0.525	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Cobalt	1.33		0.233	0.0875	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Lead	9.95		0.350	0.146	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Lithium	3.23		1.17	0.467	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Molybdenum	0.233	U	0.583	0.233	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Selenium	0.893		0.583	0.373	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Thallium	0.233	U	0.583	0.233	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.231	U	0.578	0.231	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Arsenic	0.463	U	1.16	0.463	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Barium	2.69		2.31	0.578	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Beryllium	0.0463	U	0.116	0.0463	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Cadmium	0.0278	U	0.0578	0.0278	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Chromium	0.705	J	1.16	0.520	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Cobalt	0.320		0.231	0.0867	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Lead	0.802		0.347	0.145	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Lithium	0.463	U	1.16	0.463	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Molybdenum	0.231	U	0.578	0.231	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Selenium	0.370	U	0.578	0.370	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Thallium	0.231	U	0.578	0.231	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.220	U	0.551	0.220	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Arsenic	1.55		1.10	0.441	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Barium	17.5		2.20	0.551	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Beryllium	0.0663	J	0.110	0.0441	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Cadmium	0.0264	U	0.0551	0.0264	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Chromium	3.81		1.10	0.496	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Cobalt	0.568		0.220	0.0826	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Lead	3.32		0.331	0.138	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Lithium	1.81		1.10	0.441	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Molybdenum	0.273	J	0.551	0.220	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Selenium	0.353	U	0.551	0.353	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Thallium	0.220	U	0.551	0.220	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.234	U	0.585	0.234	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Arsenic	0.468	U	1.17	0.468	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Barium	2.37		2.34	0.585	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Beryllium	0.0468	U	0.117	0.0468	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Cadmium	0.0281	U	0.0585	0.0281	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Chromium	0.865	J	1.17	0.527	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Cobalt	0.0878	U	0.234	0.0878	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Lead	1.63		0.351	0.146	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Lithium	0.468	U	1.17	0.468	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Molybdenum	2.60		0.585	0.234	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Selenium	0.374	U	0.585	0.374	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Thallium	0.234	U	0.585	0.234	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.219	U	0.549	0.219	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Arsenic	1.40		1.10	0.439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Barium	25.3		2.19	0.549	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Beryllium	0.231		0.110	0.0439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Cadmium	0.0263	U	0.0549	0.0263	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Chromium	4.86		1.10	0.494	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Cobalt	0.280		0.219	0.0823	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Lead	6.39		0.329	0.137	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Lithium	1.97		1.10	0.439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Molybdenum	0.219	U	0.549	0.219	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Selenium	0.914		0.549	0.351	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Thallium	0.219	U	0.549	0.219	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.234	U	0.584	0.234	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Arsenic	0.467	U	1.17	0.467	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Barium	1.03	J	2.34	0.584	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Beryllium	0.0467	U	0.117	0.0467	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Cadmium	0.0280	U	0.0584	0.0280	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Chromium	0.734	J	1.17	0.526	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Cobalt	0.0876	U	0.234	0.0876	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Lead	0.322	J	0.350	0.146	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Lithium	0.467	U	1.17	0.467	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Molybdenum	0.234	U	0.584	0.234	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Selenium	0.374	U	0.584	0.374	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Thallium	0.234	U	0.584	0.234	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.218	U	0.544	0.218	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Arsenic	1.03	J	1.09	0.435	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Barium	26.0		2.18	0.544	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Beryllium	0.0740	J	0.109	0.0435	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Cadmium	0.0261	U	0.0544	0.0261	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Chromium	3.95		1.09	0.490	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Cobalt	0.255		0.218	0.0816	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Lead	4.91		0.327	0.136	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Lithium	2.94		1.09	0.435	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Molybdenum	0.218	U	0.544	0.218	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Selenium	0.481	J	0.544	0.348	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Thallium	0.218	U	0.544	0.218	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.228	U	0.570	0.228	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Arsenic	0.456	U	1.14	0.456	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Barium	1.37	J	2.28	0.570	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Beryllium	0.0456	U	0.114	0.0456	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Cadmium	0.0274	U	0.0570	0.0274	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Chromium	0.880	J	1.14	0.513	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Cobalt	0.0855	U	0.228	0.0855	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Lead	0.526		0.342	0.142	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Lithium	0.834	J	1.14	0.456	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Molybdenum	0.339	J	0.570	0.228	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Selenium	0.365	U	0.570	0.365	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Thallium	0.228	U	0.570	0.228	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DUP-01
Date Collected: 04/21/20 00:00
Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-43
Matrix: Solid
Percent Solids: 77.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.218	U	0.546	0.218	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Arsenic	0.437	U	1.09	0.437	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Barium	1.65	J	2.18	0.546	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Beryllium	0.0437	U	0.109	0.0437	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Cadmium	0.0262	U	0.0546	0.0262	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Chromium	0.671	J	1.09	0.491	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Cobalt	0.168	J	0.218	0.0819	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Lead	0.536		0.327	0.136	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Lithium	0.437	U	1.09	0.437	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Molybdenum	0.218	U	0.546	0.218	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Selenium	0.349	U	0.546	0.349	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Thallium	0.218	U	0.546	0.218	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DUP-02

Lab Sample ID: 400-187320-44

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.218	U	0.544	0.218	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Arsenic	0.655	J	1.09	0.435	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Barium	91.7		2.18	0.544	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Beryllium	0.697		0.109	0.0435	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Cadmium	0.0261	U	0.0544	0.0261	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Chromium	3.57		1.09	0.490	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Cobalt	0.115	J	0.218	0.0817	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Lead	7.64		0.327	0.136	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Lithium	2.74		1.09	0.435	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Molybdenum	0.218	U	0.544	0.218	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Selenium	1.48		0.544	0.348	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Thallium	0.218	U	0.544	0.218	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 17:59	CB	TAL SL

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 18:33	CB	TAL SL

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 70.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 18:39	CB	TAL SL

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:06	CB	TAL SL

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 60.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:13	CB	TAL SL

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:20	CB	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 39.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:26	CB	TAL SL

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:33	CB	TAL SL

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 71.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:40	CB	TAL SL

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:46	CB	TAL SL

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 65.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:53	CB	TAL SL

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 20:00	CB	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 20:07	CB	TAL SL

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 20:33	CB	TAL SL

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 20:40	CB	TAL SL

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 20:47	CB	TAL SL

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 20:54	CB	TAL SL

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 21:00	CB	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 21:07	CB	TAL SL

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 21:14	CB	TAL SL

Client Sample ID: DUP-01

Lab Sample ID: 400-187320-43

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 22:01	CB	TAL SL

Client Sample ID: DUP-02

Lab Sample ID: 400-187320-44

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 22:34	CB	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Metals

Prep Batch: 471675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	3050B	
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	3050B	
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	3050B	
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	3050B	
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	3050B	
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	3050B	
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	3050B	
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	3050B	
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	3050B	
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	3050B	
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	3050B	
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	3050B	
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	3050B	
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	3050B	
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	3050B	
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	3050B	
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	3050B	
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	3050B	
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	3050B	
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	3050B	
MB 160-471675/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-471675/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-471675/3-A	Lab Control Sample	Total/NA	Solid	3050B	
400-187320-12 MS	DPT-1-SS RA V2	Total/NA	Solid	3050B	
400-187320-12 MSD	DPT-1-SS RA V2	Total/NA	Solid	3050B	

Prep Batch: 471676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-43	DUP-01	Total/NA	Solid	3050B	
400-187320-44	DUP-02	Total/NA	Solid	3050B	
MB 160-471676/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-471676/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-471676/3-A	Lab Control Sample	Total/NA	Solid	3050B	
400-187320-43 MS	DUP-01	Total/NA	Solid	3050B	
400-187320-43 MSD	DUP-01	Total/NA	Solid	3050B	

Analysis Batch: 471679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	6020	471675
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	6020	471675
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	6020	471675
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	6020	471675
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	6020	471675
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	6020	471675
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	6020	471675
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	6020	471675
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	6020	471675
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	6020	471675
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	6020	471675
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	6020	471675
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	6020	471675

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Metals (Continued)

Analysis Batch: 471679 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	6020	471675
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	6020	471675
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	6020	471675
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	6020	471675
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	6020	471675
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	6020	471675
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	6020	471675
400-187320-43	DUP-01	Total/NA	Solid	6020	471676
400-187320-44	DUP-02	Total/NA	Solid	6020	471676
MB 160-471675/1-A	Method Blank	Total/NA	Solid	6020	471675
MB 160-471676/1-A	Method Blank	Total/NA	Solid	6020	471676
LCS 160-471675/2-A	Lab Control Sample	Total/NA	Solid	6020	471675
LCS 160-471676/2-A	Lab Control Sample	Total/NA	Solid	6020	471676
LCSSRM 160-471675/3-A	Lab Control Sample	Total/NA	Solid	6020	471675
LCSSRM 160-471676/3-A	Lab Control Sample	Total/NA	Solid	6020	471676
400-187320-12 MS	DPT-1-SS RA V2	Total/NA	Solid	6020	471675
400-187320-12 MSD	DPT-1-SS RA V2	Total/NA	Solid	6020	471675
400-187320-43 MS	DUP-01	Total/NA	Solid	6020	471676
400-187320-43 MSD	DUP-01	Total/NA	Solid	6020	471676

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-471675/1-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 471675

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.198	U	0.496	0.198	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Arsenic	0.397	U	0.992	0.397	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Barium	0.496	U	1.98	0.496	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Beryllium	0.0397	U	0.0992	0.0397	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Cadmium	0.0238	U	0.0496	0.0238	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Chromium	0.446	U	0.992	0.446	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Cobalt	0.0744	U	0.198	0.0744	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Lead	0.124	U	0.298	0.124	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Lithium	0.397	U	0.992	0.397	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Molybdenum	0.198	U	0.496	0.198	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Selenium	0.317	U	0.496	0.317	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Thallium	0.198	U	0.496	0.198	mg/Kg		05/08/20 10:07	05/08/20 17:39	2

Lab Sample ID: LCS 160-471675/2-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCSSRM 160-471675/3-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471675

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	97.6	101.9		mg/Kg		104.4	70.0 - 130.1
Barium	320	348.8		mg/Kg		109.0	75.0 - 125.0
Beryllium	41.4	45.95		mg/Kg		111.0	75.1 - 125.1
Cadmium	114	120.8		mg/Kg		105.9	75.0 - 125.4
Chromium	147	141.0		mg/Kg		95.9	70.1 - 129.9
Cobalt	46.7	45.87		mg/Kg		98.2	75.2 - 125.1
Lead	105	120.9		mg/Kg		115.2	70.5 - 128.6
Molybdenum	78.8	90.06		mg/Kg		114.3	69.5 - 130.7
Selenium	93.1	99.35		mg/Kg		106.7	64.6 - 135.3
Thallium	104	118.5		mg/Kg		113.9	67.3 - 131.7

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

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

Lab Sample ID: 400-187320-12 MS

Matrix: Solid

Analysis Batch: 471679

Client Sample ID: DPT-1-SS RA V2

Prep Type: Total/NA

Prep Batch: 471675

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	0.226	U F1 F2	55.3	22.01	F1	mg/Kg	☼	40	75 - 125
Arsenic	4.17		111	111.7		mg/Kg	☼	97	75 - 125
Barium	10.6		111	137.9		mg/Kg	☼	115	75 - 125
Beryllium	0.149		11.1	12.48		mg/Kg	☼	111	75 - 125
Cadmium	0.0271	U	111	116.7		mg/Kg	☼	106	75 - 125
Chromium	7.51		111	107.1		mg/Kg	☼	90	75 - 125
Cobalt	0.285		111	111.1		mg/Kg	☼	100	75 - 125
Lead	4.09		111	121.8		mg/Kg	☼	106	75 - 125
Lithium	2.85	F1	11.1	26.27	F1	mg/Kg	☼	212	75 - 125
Molybdenum	0.721		55.3	60.79		mg/Kg	☼	109	75 - 125
Selenium	0.566		55.3	51.52		mg/Kg	☼	92	75 - 125
Thallium	0.226	U	22.1	23.05		mg/Kg	☼	104	75 - 125

Lab Sample ID: 400-187320-12 MSD

Matrix: Solid

Analysis Batch: 471679

Client Sample ID: DPT-1-SS RA V2

Prep Type: Total/NA

Prep Batch: 471675

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Antimony	0.226	U F1 F2	63.6	31.58	F1 F2	mg/Kg	☼	50	75 - 125	36	30
Arsenic	4.17		127	130.5		mg/Kg	☼	99	75 - 125	15	30
Barium	10.6		127	146.9		mg/Kg	☼	107	75 - 125	6	30
Beryllium	0.149		12.7	13.84		mg/Kg	☼	108	75 - 125	10	30
Cadmium	0.0271	U	127	131.9		mg/Kg	☼	104	75 - 125	12	30
Chromium	7.51		127	128.0		mg/Kg	☼	95	75 - 125	18	30
Cobalt	0.285		127	131.0		mg/Kg	☼	103	75 - 125	16	30
Lead	4.09		127	136.8		mg/Kg	☼	104	75 - 125	12	30
Lithium	2.85	F1	12.7	24.20	F1	mg/Kg	☼	168	75 - 125	8	30
Molybdenum	0.721		63.6	70.24		mg/Kg	☼	109	75 - 125	14	30
Selenium	0.566		63.6	59.79		mg/Kg	☼	93	75 - 125	15	30
Thallium	0.226	U	25.4	26.50		mg/Kg	☼	104	75 - 125	14	30

Lab Sample ID: MB 160-471676/1-A

Matrix: Solid

Analysis Batch: 471679

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 471676

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Antimony	0.199	U	0.497	0.199	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Arsenic	0.397	U	0.993	0.397	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Barium	0.497	U	1.99	0.497	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Beryllium	0.0397	U	0.0993	0.0397	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Cadmium	0.0238	U	0.0497	0.0238	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Chromium	0.447	U	0.993	0.447	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Cobalt	0.0745	U	0.199	0.0745	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Lead	0.124	U	0.298	0.124	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Lithium	0.397	U	0.993	0.397	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Molybdenum	0.199	U	0.497	0.199	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Selenium	0.318	U	0.497	0.318	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Thallium	0.199	U	0.497	0.199	mg/Kg		05/08/20 10:12	05/08/20 21:20			2

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

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

Lab Sample ID: LCS 160-471676/2-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471676
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lithium	9.55	10.11		mg/Kg		106	80 - 120

Lab Sample ID: LCSSRM 160-471676/3-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471676
%Rec.

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Antimony	99.4	75.25		mg/Kg		75.7	20.7 - 256.5
Arsenic	97.6	108.4		mg/Kg		111.1	70.0 - 130.1
Barium	320	351.3		mg/Kg		109.8	75.0 - 125.0
Beryllium	41.4	45.52		mg/Kg		110.0	75.1 - 125.1
Cadmium	114	119.6		mg/Kg		104.9	75.0 - 125.4
Chromium	147	149.3		mg/Kg		101.6	70.1 - 129.9
Cobalt	46.7	48.41		mg/Kg		103.7	75.2 - 125.1
Lead	105	118.8		mg/Kg		113.1	70.5 - 128.6
Molybdenum	78.8	93.08		mg/Kg		118.1	69.5 - 130.7
Selenium	93.1	102.4		mg/Kg		110.0	64.6 - 135.3
Thallium	104	116.8		mg/Kg		112.3	67.3 - 131.7

Lab Sample ID: 400-187320-43 MS
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 471676
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.218	U	63.1	64.78		mg/Kg	☼	103	75 - 125
Arsenic	0.437	U	126	119.8		mg/Kg	☼	95	75 - 125
Barium	1.65	J	126	135.1		mg/Kg	☼	106	75 - 125
Beryllium	0.0437	U	12.6	13.23		mg/Kg	☼	105	75 - 125
Cadmium	0.0262	U	126	132.6		mg/Kg	☼	105	75 - 125
Chromium	0.671	J	126	120.7		mg/Kg	☼	95	75 - 125
Cobalt	0.168	J	126	122.3		mg/Kg	☼	97	75 - 125
Lead	0.536		126	133.2		mg/Kg	☼	105	75 - 125
Lithium	0.437	U	12.6	14.11		mg/Kg	☼	112	75 - 125
Molybdenum	0.218	U	63.1	70.44		mg/Kg	☼	112	75 - 125
Selenium	0.349	U	63.1	56.57		mg/Kg	☼	90	75 - 125
Thallium	0.218	U	25.2	26.38		mg/Kg	☼	105	75 - 125

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

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

Lab Sample ID: 400-187320-43 MSD
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 471676

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Antimony	0.218	U	59.3	57.80		mg/Kg	☼	98	75 - 125	11	30
Arsenic	0.437	U	119	111.4		mg/Kg	☼	94	75 - 125	7	30
Barium	1.65	J	119	118.4		mg/Kg	☼	98	75 - 125	13	30
Beryllium	0.0437	U	11.9	11.61		mg/Kg	☼	98	75 - 125	13	30
Cadmium	0.0262	U	119	119.8		mg/Kg	☼	101	75 - 125	10	30
Chromium	0.671	J	119	111.5		mg/Kg	☼	94	75 - 125	8	30
Cobalt	0.168	J	119	115.1		mg/Kg	☼	97	75 - 125	6	30
Lead	0.536		119	118.8		mg/Kg	☼	100	75 - 125	11	30
Lithium	0.437	U	11.9	12.29		mg/Kg	☼	104	75 - 125	14	30
Molybdenum	0.218	U	59.3	62.69		mg/Kg	☼	106	75 - 125	12	30
Selenium	0.349	U	59.3	53.16		mg/Kg	☼	90	75 - 125	6	30
Thallium	0.218	U	23.7	23.96		mg/Kg	☼	101	75 - 125	10	30

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-3

SDG Number: Plant Watson

Login Number: 187320

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6°C, 2.8°C IR-9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-3

SDG Number: Plant Watson

Login Number: 187320

List Number: 3

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/29/20 09:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No ice present upon receipt.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	05-14-20
ANAB	Dept. of Energy	L2305.01	05-14-20
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

ANALYTICAL REPORT

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

Laboratory Job ID: 400-187407-1
Laboratory Sample Delivery Group: Plant Watson
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
5/12/2020 1:59:24 PM
Mark Swafford, Project Manager II
(850)471-6207
mark.swafford@testamericainc.com

Designee for
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.

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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Job ID: 400-187407-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-187407-1

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria of $<6^{\circ}\text{C}$ (16.2°C), with no cooling agent present: DPT-11-SS RA V2 (400-187407-1), DPT-11-SS RA V3 (400-187407-2), DPT-12-SS RA V2 (400-187407-3), DPT-12-SS RA V3 (400-187407-4), DPT-13-SS RA V2 (400-187407-5) and DPT-13-SS RA V3 (400-187407-6).

A solid 4oz jar container for the following sample was received broken: DPT-12-SS RA V3 (400-187407-4). The sample was transferred to a new container with minimal loss; sufficient sample is remaining for analysis.



Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
3050B	Preparation, Metals	SW846	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187407-1	DPT-11-SS RA V2	Solid	04/27/20 12:20	04/30/20 09:27	
400-187407-2	DPT-11-SS RA V3	Solid	04/27/20 12:25	04/30/20 09:27	
400-187407-3	DPT-12-SS RA V2	Solid	04/27/20 15:05	04/30/20 09:27	
400-187407-4	DPT-12-SS RA V3	Solid	04/27/20 15:20	04/30/20 09:27	
400-187407-5	DPT-13-SS RA V2	Solid	04/28/20 10:15	04/30/20 09:27	
400-187407-6	DPT-13-SS RA V3	Solid	04/28/20 11:30	04/30/20 09:27	

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 61.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	6.12		0.274	0.123	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Uranium	2.27		0.137	0.0547	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 81.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.988		0.230	0.103	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Uranium	0.817		0.115	0.0460	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.47		0.229	0.103	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Uranium	0.984		0.115	0.0458	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2

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- 13

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 82.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.118	J	0.221	0.0993	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Uranium	0.0441	U	0.110	0.0441	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 75.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	6.37		0.235	0.106	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Uranium	1.06		0.118	0.0470	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.9

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.110	J	0.232	0.104	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Uranium	0.0464	U	0.116	0.0464	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2

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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MQL	Method Quantitation Limit
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: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 61.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 23:02	FLC	TAL SL

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 23:28	FLC	TAL SL

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 23:35	FLC	TAL SL

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 23:42	FLC	TAL SL

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 23:49	FLC	TAL SL

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 23:55	FLC	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Metals

Prep Batch: 469893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	3050B	
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	3050B	
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	3050B	
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	3050B	
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	3050B	
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	3050B	
MB 160-469893/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-469893/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-469893/3-A	Lab Control Sample	Total/NA	Solid	3050B	
400-187320-A-43-K MS	Matrix Spike	Total/NA	Solid	3050B	
400-187320-A-43-L MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 469984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	6020	469893
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	6020	469893
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	6020	469893
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	6020	469893
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	6020	469893
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	6020	469893
MB 160-469893/1-A	Method Blank	Total/NA	Solid	6020	469893
LCS 160-469893/2-A	Lab Control Sample	Total/NA	Solid	6020	469893
LCSSRM 160-469893/3-A	Lab Control Sample	Total/NA	Solid	6020	469893
400-187320-A-43-K MS	Matrix Spike	Total/NA	Solid	6020	469893
400-187320-A-43-L MSD	Matrix Spike Duplicate	Total/NA	Solid	6020	469893

General Chemistry

Analysis Batch: 469480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	Moisture	
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	Moisture	
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	Moisture	
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	Moisture	
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	Moisture	
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	Moisture	
400-187320-B-42 DU	Duplicate	Total/NA	Solid	Moisture	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-469893/1-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469893

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Thorium	0.0894	U	0.199	0.0894	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Uranium	0.0397	U	0.0993	0.0397	mg/Kg		05/08/20 10:12	05/08/20 21:20	2

Lab Sample ID: LCS 160-469893/2-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCSSRM 160-469893/3-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469893

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 400-187320-A-43-K MS
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 469893

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Thorium	0.203	J	126	131.1		mg/Kg	☼	104	75 - 125
Uranium	0.0437	U	126	131.7		mg/Kg	☼	104	75 - 125

Lab Sample ID: 400-187320-A-43-L MSD
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 469893

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Thorium	0.203	J	119	118.0		mg/Kg	☼	99	75 - 125	11	30
Uranium	0.0437	U	119	118.2		mg/Kg	☼	100	75 - 125	11	30

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

Chain of Custody Record



eurofins

850-474-1001
850-478-2671

Client Information Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283(Tel) Email: laparker@southernco.com Project Name: Plant Watson Site: Plant Watson		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com 400-187407 COC 400-93871-34057.5 Page 5 of 6 Job #	
Due Date Requested: <i>per quote</i> TAT Requested (days): <i>per quote</i> PO #: SCS10382606 WO #: 40001674 Project #: 40001674 SOW #:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OHS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDTA Z - other (specify)	
Matrix (W=water, S=solid, O=organic, A=air) Sample Type (C=comp, G=grab) Sample Date Sample Time Matrix Preservation Code		Special Instructions/Note: Baton Rouge 218	
Sample Identification DPT-11-SS Ra U2 DPT-11-SS Ra U3 DPT-12-SS Ra U2 DPT-12-SS Ra U3 DPT-13-SS Ra U2 DPT-13-SS Ra U3		Total Number of containers Ra226Ra228 GFCP - Radium 226 + Radium 228 9320 Ra228 - Radium 228 9315 Ra226 - Radium 226 Moisture - Percent Moisture Ra226Ra228 GFCP - Combined Radium-226 and Radium-228 6020 - Uranium & Thorium 9315 Ra226, 9320 Ra228 SM4500_S2_D - Sulfide, Total SM4500_S04_E - Sulfate, Total 9034 Calc. AVS, Moisture Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)	
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:		Method of Shipment:	
Relinquished by: <i>[Signature]</i> Date/Time: 4/29/2020 12:28 Company: <i>GeoMorp</i>		Received by: <i>[Signature]</i> Date/Time: 4/29/2020 12:28 Company: <i>GeoMorp</i>	
Relinquished by: <i>[Signature]</i> Date/Time: 4/29/2020 5:1 Company: <i>GeoMorp</i>		Received by: <i>[Signature]</i> Date/Time: 4/29/2020 9:27 Company: <i>GeoMorp</i>	
Relinquished by: <i>[Signature]</i> Date/Time: 4/29/2020 5:1 Company: <i>GeoMorp</i>		Received by: <i>[Signature]</i> Date/Time: 4/29/2020 9:27 Company: <i>GeoMorp</i>	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: <i>10°C, 0.4°C, 21.8</i>	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187407-1

SDG Number: Plant Watson

Login Number: 187407

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

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, 0.4°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187407-1

SDG Number: Plant Watson

Login Number: 187407

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/01/20 08:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

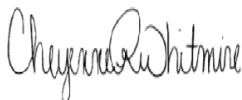
ANALYTICAL REPORT

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

Laboratory Job ID: 400-187407-2
Laboratory Sample Delivery Group: Plant Watson
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
6/19/2020 1:16:12 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.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Job ID: 400-187407-2

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

**Job Narrative
400-187407-2**

Receipt Exceptions

A solid 4oz jar container for the following sample was received broken: DPT-12-SS RA V3 (400-187407-4). The sample was transferred to a new container with minimal loss; sufficient sample is remaining for analysis.

Gas Flow Proportional Counter

Method 9315_Ra226: Ra-226 Prep Batch 160-469806 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DPT-11-SS RA V2 (400-187407-1), DPT-11-SS RA V3 (400-187407-2), DPT-12-SS RA V2 (400-187407-3), DPT-12-SS RA V3 (400-187407-4), DPT-13-SS RA V2 (400-187407-5), DPT-13-SS RA V3 (400-187407-6), (LCS 160-469806/1-A), (MB 160-469806/11-A), (400-187320-A-43-F) and (400-187320-A-43-G DU)

Method 9320_Ra228: Radium-228 Prep Batch: 160-469808 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DPT-11-SS RA V2 (400-187407-1), DPT-11-SS RA V3 (400-187407-2), DPT-12-SS RA V2 (400-187407-3), DPT-12-SS RA V3 (400-187407-4), DPT-13-SS RA V2 (400-187407-5), DPT-13-SS RA V3 (400-187407-6), (LCS 160-469808/1-A), (MB 160-469808/11-A), (400-187320-A-43-H) and (400-187320-A-43-I DU)



Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

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
DPS-0	Preparation, Digestion/ Precipitate	None	TAL SL
DPS-21	Preparation, Digestion/Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

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

Laboratory References:

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187407-1	DPT-11-SS RA V2	Solid	04/27/20 12:20	04/30/20 09:27	
400-187407-2	DPT-11-SS RA V3	Solid	04/27/20 12:25	04/30/20 09:27	
400-187407-3	DPT-12-SS RA V2	Solid	04/27/20 15:05	04/30/20 09:27	
400-187407-4	DPT-12-SS RA V3	Solid	04/27/20 15:20	04/30/20 09:27	
400-187407-5	DPT-13-SS RA V2	Solid	04/28/20 10:15	04/30/20 09:27	
400-187407-6	DPT-13-SS RA V3	Solid	04/28/20 11:30	04/30/20 09:27	

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

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.02		0.174	0.196	1.00	0.0958	pCi/g	05/07/20 11:59	06/01/20 04:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					05/07/20 11:59	06/01/20 04:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.02		0.332	0.345	1.00	0.441	pCi/g	05/07/20 12:23	05/19/20 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					05/07/20 12:23	05/19/20 14:40	1
Y Carrier	89.0		40 - 110					05/07/20 12:23	05/19/20 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	2.04		0.375	0.397	5.00	0.441	pCi/g		06/01/20 08:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.162		0.0755	0.0769	1.00	0.0817	pCi/g	05/07/20 11:59	06/01/20 04:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					05/07/20 11:59	06/01/20 04:48	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	0.225	0.225	1.00	0.386	pCi/g	05/07/20 12:23	05/19/20 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					05/07/20 12:23	05/19/20 14:40	1
Y Carrier	87.5		40 - 110					05/07/20 12:23	05/19/20 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	0.275	U	0.237	0.238	5.00	0.386	pCi/g		06/01/20 08:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.773		0.150	0.166	1.00	0.0830	pCi/g	05/07/20 11:59	06/01/20 04:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					05/07/20 11:59	06/01/20 04:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.502		0.299	0.302	1.00	0.453	pCi/g	05/07/20 12:23	05/19/20 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					05/07/20 12:23	05/19/20 14:40	1
Y Carrier	86.4		40 - 110					05/07/20 12:23	05/19/20 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	1.28		0.335	0.345	5.00	0.453	pCi/g		06/01/20 08:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0734	U	0.0565	0.0569	1.00	0.0776	pCi/g	05/07/20 11:59	06/01/20 04:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					05/07/20 11:59	06/01/20 04:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.179	U	0.264	0.265	1.00	0.443	pCi/g	05/07/20 12:23	05/19/20 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					05/07/20 12:23	05/19/20 14:40	1
Y Carrier	89.7		40 - 110					05/07/20 12:23	05/19/20 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	0.253	U	0.270	0.271	5.00	0.443	pCi/g		06/01/20 08:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.491		0.121	0.128	1.00	0.0856	pCi/g	05/07/20 11:59	06/01/20 04:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					05/07/20 11:59	06/01/20 04:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.275	U	0.257	0.259	1.00	0.415	pCi/g	05/07/20 12:23	05/19/20 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					05/07/20 12:23	05/19/20 14:41	1
Y Carrier	89.3		40 - 110					05/07/20 12:23	05/19/20 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	0.767		0.284	0.289	5.00	0.415	pCi/g		06/01/20 08:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0634	U	0.0606	0.0608	1.00	0.0933	pCi/g	05/07/20 11:59	06/01/20 04:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					05/07/20 11:59	06/01/20 04:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00751	U	0.203	0.203	1.00	0.370	pCi/g	05/07/20 12:23	05/19/20 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		40 - 110					05/07/20 12:23	05/19/20 14:41	1
Y Carrier	86.7		40 - 110					05/07/20 12:23	05/19/20 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	0.0709	U	0.212	0.212	5.00	0.370	pCi/g		06/01/20 08:25	1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Qualifiers

Rad

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFI	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:48	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 14:40	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:48	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 14:40	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:49	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 14:40	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:49	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 14:40	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:49	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470898	05/19/20 14:41	CJQ	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:49	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470898	05/19/20 14:41	CJQ	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Rad

Prep Batch: 469806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	DPS-21	
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	DPS-21	
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	DPS-21	
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	DPS-21	
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	DPS-21	
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	DPS-21	
MB 160-469806/11-A	Method Blank	Total/NA	Solid	DPS-21	
LCS 160-469806/1-A	Lab Control Sample	Total/NA	Solid	DPS-21	
400-187320-A-43-G DU	Duplicate	Total/NA	Solid	DPS-21	

Prep Batch: 469808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	DPS-0	
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	DPS-0	
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	DPS-0	
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	DPS-0	
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	DPS-0	
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	DPS-0	
MB 160-469808/11-A	Method Blank	Total/NA	Solid	DPS-0	
LCS 160-469808/1-A	Lab Control Sample	Total/NA	Solid	DPS-0	
400-187320-A-43-I DU	Duplicate	Total/NA	Solid	DPS-0	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-469806/11-A
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469806

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.008328	U	0.0616	0.0616	1.00	0.119	pCi/g	05/07/20 11:59	06/01/20 04:49	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					05/07/20 11:59	06/01/20 04:49	1
	88.6									

Lab Sample ID: LCS 160-469806/1-A
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469806

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.26		1.06	1.00	0.105	pCi/g	90	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	91.3		40 - 110						

Lab Sample ID: 400-187320-A-43-G DU
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 469806

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-226	0.0447	U	0.09564	U	0.0783	1.00	0.116	pCi/g		0.36
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	85.8		40 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-469808/11-A
Matrix: Solid
Analysis Batch: 470898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469808

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.01823	U	0.221	0.221	1.00	0.398	pCi/g	05/07/20 12:23	05/19/20 14:41	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					05/07/20 12:23	05/19/20 14:41	1
Y Carrier	84.5		40 - 110					05/07/20 12:23	05/19/20 14:41	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

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

Lab Sample ID: LCS 160-469808/1-A
Matrix: Solid
Analysis Batch: 470884

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469808

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	8.83	6.592		0.864	1.00	0.437	pCi/g	75	75 - 125	
		LCS	LCS							
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	91.3		40 - 110							
Y Carrier	88.6		40 - 110							

Lab Sample ID: 400-187320-A-43-I DU
Matrix: Solid
Analysis Batch: 470884

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 469808

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.179	U	0.3086	U	0.283	1.00	0.453	pCi/g	0.22	1
		DU	DU							
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	85.8		40 - 110							
Y Carrier	87.1		40 - 110							

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

Chain of Custody Record



eurofins

Est. 1988
ISO 17025
Certified

Lab PM: Whitmire, Cheyenne R
Whitmire, Cheyenne R
400-187407 COC
400-93871-34057.5
Page: Page 5 of 6
Job #:
E-Mail: cheyenne.whitmire@testamericainc.com

Client Information
Southern Company
Address: 3535 Colonnade Parkway Bin S 530 EC
City: Birmingham
State, Zip: AL, 35243
Phone: 205-992-6283(Tel)
PO #: SCS10382606
WO #:
Project #: 40001674
E-mail: laparker@southernco.com
Plant Name: Plant Watson
Site: Plant Watson

Due Date Requested: per quote
TAT Requested (days): per quote

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	934 Calc. AVS, Moisture	SM4500_S04_E - Sulfate, Total	SM4500_S2_D - Sulfide, Total	9315 Ra226, 9320 Ra228	6020 - Uranium & Thorium	Ra226Ra228 GFCP - Combined Radium-226 and Radium-228	Moisture - Percent Moisture	9315 Ra226 - Radium 226	9320 Ra228 - Radium 228	Ra226Ra228 GFCP - Radium 226 + Radium 228	Total Number of Containers	Special Instructions/Note:
DPT-11-SS Ra U2	4/27/20	1220	C	Solid	N	N				X	X	X	X			X	Leach test	Baton Rouge 218
DPT-11-SS Ra U3		1225	C	Solid	N	N				X	X	X	X			X		
DPT-12-SS Ra U2		1505	C	Solid	N	N				X	X	X	X			X		
DPT-12-SS Ra U3		1520	C	Solid	N	N				X	X	X	X			X		
DPT-13-SS Ra U2	4/28/20	1015	C	Solid	N	N				X	X	X	X			X		
DPT-13-SS Ra U3		1130	C	Solid	N	N				X	X	X	X			X		
				Solid														
				Solid														
				Solid														
				Solid														
				Solid														

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:
 Relinquished by:
 Relinquished by:

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:

Time: Date: 4/29/20 12:28
 Date: 4/29/20 12:28
 Date: 4/29/20 9:27

Method of Shipment:

Received by:
 Received by:
 Received by:

Cooler Temperature(s) °C and Other Remarks: D.O.C. out c JRC 8



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187407-2

SDG Number: Plant Watson

Login Number: 187407

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

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, 0.4°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187407-2

SDG Number: Plant Watson

Login Number: 187407

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/01/20 08:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-21
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Method: 9315 - Radium-226 (GFPC)

Matrix: Solid

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba Carrier (40-110)
400-187320-A-43-G DU	Duplicate	85.8
400-187407-1	DPT-11-SS RA V2	90.0
400-187407-2	DPT-11-SS RA V3	95.8
400-187407-3	DPT-12-SS RA V2	88.5
400-187407-4	DPT-12-SS RA V3	91.3
400-187407-5	DPT-13-SS RA V2	89.1
400-187407-6	DPT-13-SS RA V3	91.9
LCS 160-469806/1-A	Lab Control Sample	91.3
MB 160-469806/11-A	Method Blank	88.6

Tracer/Carrier Legend

Ba Carrier = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Solid

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba Carrier (40-110)	Y Carrier (40-110)
400-187320-A-43-I DU	Duplicate	85.8	87.1
400-187407-1	DPT-11-SS RA V2	90.0	89.0
400-187407-2	DPT-11-SS RA V3	95.8	87.5
400-187407-3	DPT-12-SS RA V2	88.5	86.4
400-187407-4	DPT-12-SS RA V3	91.3	89.7
400-187407-5	DPT-13-SS RA V2	89.1	89.3
400-187407-6	DPT-13-SS RA V3	89.6	86.7
LCS 160-469808/1-A	Lab Control Sample	91.3	88.6
MB 160-469808/11-A	Method Blank	88.6	84.5

Tracer/Carrier Legend

Ba Carrier = Ba Carrier

Y Carrier = Y Carrier

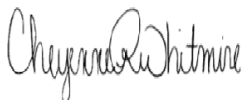
ANALYTICAL REPORT

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

Laboratory Job ID: 400-187407-3
Laboratory Sample Delivery Group: Plant Watson
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
6/19/2020 1:16:50 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, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Job ID: 400-187407-3

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

**Job Narrative
400-187407-3**

Metals

Method 6020: preparation batch 160-471676 and analytical batch 160-471679 Due to linear range check (LRC) failures, the linear range for arsenic (200ppb) and molybdenum (100ppb) has been lowered to the concentration of the highest calibration standard. The LCS and MS/MSD were above the linear range, but were within acceptable recovery limits. (LCSSRM 160-471676/3-A), (400-187320-A-43-O MS) and (400-187320-A-43-P MSD)

Client requested App III metals list added.

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Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SL
3050B	Preparation, Metals	SW846	TAL SL

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187407-1	DPT-11-SS RA V2	Solid	04/27/20 12:20	04/30/20 09:27	
400-187407-2	DPT-11-SS RA V3	Solid	04/27/20 12:25	04/30/20 09:27	
400-187407-3	DPT-12-SS RA V2	Solid	04/27/20 15:05	04/30/20 09:27	
400-187407-4	DPT-12-SS RA V3	Solid	04/27/20 15:20	04/30/20 09:27	
400-187407-5	DPT-13-SS RA V2	Solid	04/28/20 10:15	04/30/20 09:27	
400-187407-6	DPT-13-SS RA V3	Solid	04/28/20 11:30	04/30/20 09:27	

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 61.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.274	U	0.684	0.274	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Arsenic	9.06		1.37	0.547	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Barium	30.6		2.74	0.684	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Beryllium	1.32		0.137	0.0547	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Cadmium	0.0468	J	0.0684	0.0328	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Chromium	7.85		1.37	0.616	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Cobalt	5.07		0.274	0.103	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Lead	10.6		0.411	0.171	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Lithium	6.72		1.37	0.547	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Molybdenum	1.12		0.684	0.274	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Selenium	2.07		0.684	0.438	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Thallium	0.274	U	0.684	0.274	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 81.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.230	U	0.575	0.230	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Arsenic	0.460	U	1.15	0.460	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Barium	6.67		2.30	0.575	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Beryllium	0.0577	J	0.115	0.0460	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Cadmium	0.0276	U	0.0575	0.0276	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Chromium	1.66		1.15	0.517	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Cobalt	0.936		0.230	0.0862	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Lead	2.23		0.345	0.144	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Lithium	1.17		1.15	0.460	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Molybdenum	0.374	J	0.575	0.230	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Selenium	0.368	U	0.575	0.368	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Thallium	0.230	U	0.575	0.230	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.229	U	0.573	0.229	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Arsenic	0.803	J	1.15	0.458	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Barium	22.6		2.29	0.573	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Beryllium	0.164		0.115	0.0458	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Cadmium	0.0275	U	0.0573	0.0275	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Chromium	3.12		1.15	0.515	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Cobalt	0.335		0.229	0.0859	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Lead	9.82		0.344	0.143	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Lithium	4.70		1.15	0.458	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Molybdenum	0.263	J	0.573	0.229	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Selenium	0.751		0.573	0.367	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Thallium	0.229	U	0.573	0.229	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 82.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.221	U	0.552	0.221	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Arsenic	0.441	U	1.10	0.441	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Barium	0.996	J	2.21	0.552	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Beryllium	0.0441	U	0.110	0.0441	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Cadmium	0.0265	U	0.0552	0.0265	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Chromium	0.496	U	1.10	0.496	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Cobalt	0.144	J	0.221	0.0827	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Lead	0.384		0.331	0.138	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Lithium	0.441	U	1.10	0.441	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Molybdenum	0.221	U	0.552	0.221	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Selenium	0.353	U	0.552	0.353	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Thallium	0.221	U	0.552	0.221	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 75.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.235	U	0.588	0.235	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Arsenic	0.796	J	1.18	0.470	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Barium	32.8		2.35	0.588	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Beryllium	0.495		0.118	0.0470	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Cadmium	0.0282	U	0.0588	0.0282	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Chromium	7.10		1.18	0.529	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Cobalt	0.968		0.235	0.0882	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Lead	11.4		0.353	0.147	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Lithium	4.62		1.18	0.470	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Molybdenum	0.691		0.588	0.235	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Selenium	1.18		0.588	0.376	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Thallium	0.235	U	0.588	0.235	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.9

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.232	U	0.581	0.232	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Arsenic	0.464	U	1.16	0.464	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Barium	1.06	J	2.32	0.581	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Beryllium	0.0464	U	0.116	0.0464	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Cadmium	0.0279	U	0.0581	0.0279	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Chromium	0.522	U	1.16	0.522	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Cobalt	0.194	J	0.232	0.0871	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Lead	0.291	J	0.348	0.145	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Lithium	0.464	U	1.16	0.464	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Molybdenum	0.232	U	0.581	0.232	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Selenium	0.372	U	0.581	0.372	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Thallium	0.232	U	0.581	0.232	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 61.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 23:02	CB	TAL SL

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 23:28	CB	TAL SL

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 23:35	CB	TAL SL

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 23:42	CB	TAL SL

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 23:49	CB	TAL SL

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 23:55	CB	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Metals

Prep Batch: 471676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	3050B	
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	3050B	
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	3050B	
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	3050B	
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	3050B	
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	3050B	
MB 160-471676/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-471676/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-471676/3-A	Lab Control Sample	Total/NA	Solid	3050B	
400-187320-A-43-O MS	Matrix Spike	Total/NA	Solid	3050B	
400-187320-A-43-P MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 471679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	6020	471676
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	6020	471676
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	6020	471676
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	6020	471676
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	6020	471676
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	6020	471676
MB 160-471676/1-A	Method Blank	Total/NA	Solid	6020	471676
LCS 160-471676/2-A	Lab Control Sample	Total/NA	Solid	6020	471676
LCSSRM 160-471676/3-A	Lab Control Sample	Total/NA	Solid	6020	471676
400-187320-A-43-O MS	Matrix Spike	Total/NA	Solid	6020	471676
400-187320-A-43-P MSD	Matrix Spike Duplicate	Total/NA	Solid	6020	471676

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-471676/1-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 471676

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.199	U	0.497	0.199	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Arsenic	0.397	U	0.993	0.397	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Barium	0.497	U	1.99	0.497	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Beryllium	0.0397	U	0.0993	0.0397	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Cadmium	0.0238	U	0.0497	0.0238	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Chromium	0.447	U	0.993	0.447	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Cobalt	0.0745	U	0.199	0.0745	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Lead	0.124	U	0.298	0.124	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Lithium	0.397	U	0.993	0.397	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Molybdenum	0.199	U	0.497	0.199	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Selenium	0.318	U	0.497	0.318	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Thallium	0.199	U	0.497	0.199	mg/Kg		05/08/20 10:12	05/08/20 21:20	2

Lab Sample ID: LCS 160-471676/2-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCSSRM 160-471676/3-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471676

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	97.6	108.4		mg/Kg		111.1	70.0 - 130.1
Barium	320	351.3		mg/Kg		109.8	75.0 - 125.0
Beryllium	41.4	45.52		mg/Kg		110.0	75.1 - 125.1
Cadmium	114	119.6		mg/Kg		104.9	75.0 - 125.4
Chromium	147	149.3		mg/Kg		101.6	70.1 - 129.9
Cobalt	46.7	48.41		mg/Kg		103.7	75.2 - 125.1
Lead	105	118.8		mg/Kg		113.1	70.5 - 128.6
Molybdenum	78.8	93.08		mg/Kg		118.1	69.5 - 130.7
Selenium	93.1	102.4		mg/Kg		110.0	64.6 - 135.3
Thallium	104	116.8		mg/Kg		112.3	67.3 - 131.7

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

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

Lab Sample ID: 400-187320-A-43-O MS
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 471676
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.218	U	63.1	64.78		mg/Kg	☼	103	75 - 125
Arsenic	0.437	U	126	119.8		mg/Kg	☼	95	75 - 125
Barium	1.65	J	126	135.1		mg/Kg	☼	106	75 - 125
Beryllium	0.0437	U	12.6	13.23		mg/Kg	☼	105	75 - 125
Cadmium	0.0262	U	126	132.6		mg/Kg	☼	105	75 - 125
Chromium	0.671	J	126	120.7		mg/Kg	☼	95	75 - 125
Cobalt	0.168	J	126	122.3		mg/Kg	☼	97	75 - 125
Lead	0.536		126	133.2		mg/Kg	☼	105	75 - 125
Lithium	0.437	U	12.6	14.11		mg/Kg	☼	112	75 - 125
Molybdenum	0.218	U	63.1	70.44		mg/Kg	☼	112	75 - 125
Selenium	0.349	U	63.1	56.57		mg/Kg	☼	90	75 - 125
Thallium	0.218	U	25.2	26.38		mg/Kg	☼	105	75 - 125

Lab Sample ID: 400-187320-A-43-P MSD
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 471676
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.218	U	59.3	57.80		mg/Kg	☼	98	75 - 125	11	30
Arsenic	0.437	U	119	111.4		mg/Kg	☼	94	75 - 125	7	30
Barium	1.65	J	119	118.4		mg/Kg	☼	98	75 - 125	13	30
Beryllium	0.0437	U	11.9	11.61		mg/Kg	☼	98	75 - 125	13	30
Cadmium	0.0262	U	119	119.8		mg/Kg	☼	101	75 - 125	10	30
Chromium	0.671	J	119	111.5		mg/Kg	☼	94	75 - 125	8	30
Cobalt	0.168	J	119	115.1		mg/Kg	☼	97	75 - 125	6	30
Lead	0.536		119	118.8		mg/Kg	☼	100	75 - 125	11	30
Lithium	0.437	U	11.9	12.29		mg/Kg	☼	104	75 - 125	14	30
Molybdenum	0.218	U	59.3	62.69		mg/Kg	☼	106	75 - 125	12	30
Selenium	0.349	U	59.3	53.16		mg/Kg	☼	90	75 - 125	6	30
Thallium	0.218	U	23.7	23.96		mg/Kg	☼	101	75 - 125	10	30

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187407-3

SDG Number: Plant Watson

Login Number: 187407

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

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, 0.4°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187407-3

SDG Number: Plant Watson

Login Number: 187407

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/01/20 08:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, St. Louis

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
































Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	05-14-20
ANAB	Dept. of Energy	L2305.01	05-14-20
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

APPENDIX B

Boring Logs

BORING AND WELL LOG LEGEND

LITHOLOGY	WATER LEVEL	WELL/BORING COMPLETION	SAMPLE TYPE	DESCRIPTION
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				ASPHALT
				CONCRETE
				FILL
				TOPSOIL
				COBBLES
				IGNEOUS Rock
				METAMORPHIC Rock
				SEDIMENTARY Rock
				Well-graded GRAVEL (GW)
				Poorly graded GRAVEL (GP)
				Silty GRAVEL (GM)
				Clayey GRAVEL (GC)
				Well-graded GRAVEL with silt (GW-GM)
				Poorly graded GRAVEL with silt (GP-GM)
				Well-graded GRAVEL with clay (GW-GC)
				Poorly graded GRAVEL with clay (GP-GC)
				Well-graded SAND (SW)
				Poorly graded SAND (SP)
				Silty SAND (SM)
				Clayey SAND (SC)
				Well-graded SAND with silt (SW-SM)
				Poorly graded SAND with silt (SP-SM)
				Well-graded SAND with clay (SW-SC)
				Poorly graded SAND with clay (SP-SC)
				SILT (ML)
				Lean CLAY (CL)
				Organic SOIL (OL)
				Elastic SILT (MH)
				Fat CLAY (CH)
				Organic SOIL (OH)
				PEAT (PT)
				Volume Descriptors: Trace = <5% Few = 5-10% Little = 15-25% Some = 30-45% Mostly = >=50%
				Water Level During Drilling Water Level at End of Drilling/in Completed Well
				Cap Riser Screen Cement Bentonite Grout Bentonite Seal Filter Pack Backfill
			GR	Grab
			EN	Encore
			SS	Split Spoon
			SH	Shelby Tube
			CO	Core Barrel
			DP	Direct Push
			ID	Lab Sample and ID

NOTES:

Drilling Start Date: 04/20/2020	Boring Depth (ft): 40
Drilling End Date: 04/20/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 24.2
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 23.40
Logged By: N. Quick	North, East (Y,X): 339928.66, 924501.57

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			
5						
10						
15						
16			(16') No recovery.			
17			(17') CLAY (CL); gray (4/5B), soft, high plasticity, PP=0.75.			
17.7			(17.7') SILT (ML); tan (10YR 7/8), trace clay, non-cohesive to slightly cohesive.			
18			(18') SILTY CLAY (CL); brown (10YR 4/4), soft, medium plasticity.			
18.5			(18.5') SILT (ML); brown (10YR 5/6) with black and gray (10YR 7/1), dry, trace clay, non-cohesive.			
19.5			(19.5') CLAY (CL); gray and red mottling (2.5YR 7/4), soft, high plasticity, PP<0.5.	1574	20	
20			(20') No recovery.			
20.6			(20.6') CLAY (CL); gray and red mottling (2.5YR 7/4), soft, high plasticity, PP<0.5.			
21.2			(21.2') SILTY CLAY (CL); light brown (2.5Y 5/4), moist, high plasticity.	1894	22	
21.9			(21.9') SILTY CLAY (CL); gray (5Y 7/1) and light brown (5Y 8/4), moist, medium plasticity.			
23.7			(23.7') SILTY CLAY (CL); brown (2.5Y 5/3), moist, low plasticity.	962	24	
24			(24') Same as above.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 17'-24' and 25'-40'.

Drilling Start Date: 04/20/2020	Boring Depth (ft): 40
Drilling End Date: 04/20/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 24.2
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 23.40
Logged By: N. Quick	North, East (Y,X): 339928.66, 924501.57

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25			(24.2') ORGANIC CLAY (OH); black (10YR 2/1), wet, medium plasticity. <i>(continued)</i>			
			(25.1') SAND (SP); GLEY 1 4/N, wet, poorly graded, fine grained.	1099	26	
			(25.7') With tree roots from 25.7-25.9 feet.			
			(27.4') SAND (SP); GLEY 1 6/N, wet, poorly graded, fine grained.	902	28	-5
			(28') SAND (SP); GLEY 1 7/N and 8/N, wet, poorly graded, fine grained.			
30				1255	30	
			(32') SAND (SP); GLEY 1 6/N, wet, moderately graded, fine-medium grained.	829	32	-10
				1023	34	
35			(34.9') SILTY CLAY (CL); dark gray (10YR 3/1), wet, high plasticity.			
			(35.7') SILT (ML); dark gray (2.5Y 5/1), moist, trace clay.	1227	36	
			(36') Same as above.			
			(37.8') SANDY SILT (ML); (5Y 5/1), wet, moderately graded, fine grained.	1682	38	-15
			(38.6') SAND (SP); (10YR 6/1), wet, poorly graded, fine grained.			
40			(39.4') Black organics.			
			(39.5') SAND (SP); white (5Y 7/1), wet, poorly graded, fine grained.			
			(40') Boring terminated.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 17'-24' and 25'-40'.

Drilling Start Date: 04/21/2020	Boring Depth (ft): 44
Drilling End Date: 04/21/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20.8
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 21.15
Logged By: N. Quick	North, East (Y,X): 339426.77, 925166.58

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			20
5						15
10						10
15						5
16'			(16') No recovery.			5
17'			(17') SILTY CLAY (CL); black (2.5Y 2.5/1), moist, soft, high plasticity.	157,NA,NA	17	17
17.8'			(17.8') SILTY CLAY (CL); gray (5Y 6/1), moist, soft, high plasticity.	540,124,340	18	18
17.9'			(17.9') SILT (ML); black (2.5Y 4/1), wet, cohesive.	370,278,129	19	19
18.2'			(18.2') CLAY (CL); brown (10YR 7/8) and gray (2.5Y 7/1), soft, high plasticity, PP=1.5.	287,418,344	20	20
19.5'			(19.5') SILT (ML); dark gray (10YR 3/1), moist, cohesive.	440,229,314	21	0
20'			(20') No recovery.			21
20.4'			(20.4') CLAY (CL); brown (10YR 7/8) and gray (2.5Y 7/1), soft, high plasticity, PP=1.5.	240,NA,314	22	22
20.8'			(20.8') CLAYEY SILT (ML); gray (10YR 7/1), wet, trace clay, cohesive.	310,120,97	23	23
22'			(22') CLAY (CL); brown (2.5Y 6/4), soft, high plasticity, PP>0.5.	NA,NA,NA	24	24
22.9'			(22.9') SILT (ML); black, with organics and trace roots.			
23.4'			(23.4') CLAY (CL); black (10YR 2/1), soft, high plasticity, PP>0.5.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 19'-31' and 31'-40'.

Drilling Start Date: 04/21/2020	Boring Depth (ft): 44
Drilling End Date: 04/21/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20.8
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 21.15
Logged By: N. Quick	North, East (Y,X): 339426.77, 925166.58

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25			(24') No recovery.	NA,NA,NA	25	
			(24.7') CLAY (CL); black (10YR 2/1), soft, high plasticity, PP>0.5. (continued)	270,568,258	26	-5
			(26.2') CLAY (CL); gray (10YR 5/1), wet, soft, high plasticity, PP=0.5-1.0.	170,384,573	27	
			(28') No recovery.	NA,NA,NA	28	
			(28.6') CLAY (CL); gray (2.5Y 5/1), wet, soft, high plasticity, PP=1.0.	294,266,279	29	
30				204,NA,201	30	
			(31.1') SAND (SP); light brown (10YR 6/4), wet, moderately graded, fine-medium grained.	159,233,242	31	-10
			(32') Same as above.	206,293,277	32	
				305,245,NA	33	
				200,195,NA	34	
35			(35.3') SAND (SP); light gray (2.5Y 7/1), wet, moderately graded, fine-medium grained.	36,67,158	35	
			(36') No recovery.	168,102,117	36	-15
			(36.6') CLAY (CL); green (5GY 3/4), soft, high plasticity, PP=1.25.	355,253,227	37	
			(36.8') SAND (SP); gray (5Y 6/1), wet, poorly graded, fine grained.	NA,NA,150	38	
			(37.8') SAND (SP); white (10YR 8.5/1), wet, moderately graded, fine-medium grained.	174,NA,102	39	
40			(40') CLAY (CL); green (5GY 3/4), wet, soft, high plasticity, trace silt.	72,94,86	40	
				102,84,97	42	-20

(44') Boring terminated.

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
Composite samples collected from the following intervals were submitted for laboratory analysis: 19'-31' and 31'-40'.

Drilling Start Date: 04/21/2020	Boring Depth (ft): 36
Drilling End Date: 04/21/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 12
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 7.71
Logged By: N. Quick	North, East (Y,X): 338461.59, 926407.78

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			
5						
10						
12			(12') SAND (SP); white (10YR 9.5/1), wet, poorly graded, fine grained, well-rounded.	218,208,171	12	-5
13				352,245,NA	13	
14				233,570,208	14	
15				284,235,204	15	
16			(16') SAND (SP); tan (2.5Y 7/6), wet, poorly graded, fine-medium grained, well-subrounded.	160,217,263	16	
17			(17') SAND (SP); light brown (2.5Y 6/8), wet, moderately graded, fine-medium grained, well-subrounded.	178,124,168	17	-10
18				203,178,192	18	
19			(19.1') SAND (SP); light gray (2.5Y 7/1), wet, moderately graded, fine-medium grained, subrounded.	116,74,158	19	
20			(20') No recovery.	390,428	20	
21			(20.5') CLAY (CL); dark gray (5Y 5/1), wet, soft, high plasticity, with wood fragments, PP 0.5.	211,204,NA	21	-15
22				305,368,142	22	
23				394,196	23	
24			(23.4') SAND (SP); tan (2.5Y 7/6), wet, poorly graded, fine grained, subrounded.	318,264	24	
25			(23.5') CLAY (CL); dark gray (5Y 5/1), wet, soft, high plasticity, with wood fragments, PP 0.5.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 20'-25' and 25'-31.5'.

Drilling Start Date: 04/21/2020	Boring Depth (ft): 36
Drilling End Date: 04/21/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 12
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 7.71
Logged By: N. Quick	North, East (Y,X): 338461.59, 926407.78

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25			(24') Same as above-dark gray clay with tree roots.	174,15,240	25	
		(25') SAND (SP); oxidized orange (7.5YR 6/8), wet, poorly graded, fine grained, well-rounded, sulfur odor.	142,201,161	26		
		(25.2') SAND (SP); brown (10YR 6/4), wet, moderately graded, fine-medium grained, subrounded, sulfur odor.	172,137,215	27		
		(27') SAND (SP); white (10YR 9.5/1), wet, moderately graded, fine-medium grained, subrounded, sulfur odor.	162,204,162	28	-20	
		(27.5') SAND (SP); tan (2.5Y 7/6), wet, moderately graded, medium-fine grained, subrounded, sulfur odor.	159,487,339	29		
30		(28') Same as above.				
		(29') SAND (SP); dark gray (2.5Y 3/1), wet, well-graded, fine-coarse grained, subrounded, sulfur odor.	156,205,401, 202	31		
		(31.5') SILTY CLAY (CL); green (5GY 5/2).	282,314,170	32	-25	
		(33') No recovery.				

(36') Boring terminated.

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
Composite samples collected from the following intervals were submitted for laboratory analysis: 20'-25' and 25'-31.5'.

Drilling Start Date: 04/21/2020	Boring Depth (ft): 36
Drilling End Date: 04/21/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 16.5
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 13.15
Logged By: N. Quick	North, East (Y,X): 338350.18, 926908.55

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			
			(12') No recovery.			
			(13.3') SAND (SP); tan (2.5Y 7/4), moist, fine grained.	121,235,184	13	0
			(14.3') CLAY (CL); dark gray (2.5Y 4/1), soft, high plasticity, PP>0.5.	NA,NA,NA	14	
			(14.5') CLAYEY SILT (ML); black (5Y 2.5/1), moist, non-cohesive, organics.	224,200,194	15	
			(15.8') SILT (ML); brown (10YR 3/3), moist.	114,165,148	16	
			(16') No recovery.			
			(16.2') SAND (SP); gray (5Y 7/1), moist, poorly graded, fine grained, well-rounded, sulfur odor.	238,298,272	17	
			(16.5') SAND (SP); brown (2.5Y 3/1), wet, poorly graded, fine grained, well-rounded, sulfur odor.	199,228,174	18	-5
			(17.3') SAND (SP); gray (2.5Y 6/1), wet, poorly graded, fine grained, well-rounded, sulfur odor.	129,172,178	19	
			(18.4') SAND (SP); white (10YR 8.5/1), wet, moderately graded, fine grained, well-rounded, sulfur odor.	104,142,168	20	
			(20') Fine-medium grained, sulfur odor.	219,204,217	21	
				118,166,202	22	
				180,238,200	23	-10
			(24') Sulfur odor.	137,126,154	24	

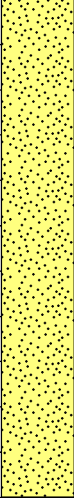
NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 14'-16' and 16'-36'.

Drilling Start Date: 04/22/2020	Boring Depth (ft): 36
Drilling End Date: 04/22/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 13.6
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 6.79
Logged By: N. Quick	North, East (Y,X): 339117.67, 926939.36

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			5
5						0
10						-5
12			(12') No recovery.			-10
13.6			(13.6') CLAY (CL); dark gray (7.5YR 5/1), wet, very soft, non-cohesive.	235,209,129	14	-11
14.8			(14.8') SILTY CLAY (CL); gray (10YR 7/1), soft, high plasticity, PP=0.75.	133,166,195	15	-12
16			(16') Same as above.	279,219,299	16	-13
17.5			(17.5') SILT (ML); gray (10YR 7/1), wet, cohesive.	340,159,274, 254	17	-14
18.7			(18.7') SAND (SP); gray (5Y 7/1), wet, poorly graded, fine grained, well-rounded.	317,195,216	18	-15
20			(20') Same as above.	151,181,175	19	-16
20.6			(20.6') SAND (SP); tan (2.5Y 8/3), wet, well-graded, fine-medium grained with trace coarse sand, well-subrounded.	238,183,135	20	-17
22				187,126,181	21	-18
23				156,228,182	22	-19
24			(24') SAND (SP); white (10YR 9/1), wet, moderately graded, fine-medium grained, well-subrounded.	294,203,234	23	-20
25				102,164,124	24	-21

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 13.6'-18' and 19'-36'.

Drilling Start Date: 04/22/2020	Boring Depth (ft): 36
Drilling End Date: 04/22/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 13.6
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 6.79
Logged By: N. Quick	North, East (Y,X): 339117.67, 926939.36

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25				213,221,139	25	
		(25.4') SAND (SP); gray (2.5Y 7/1), wet, well-graded, fine-medium grained with trace coarse sand, well-subrounded.		102,129,101	26	-20
				343,192,133	27	
		(28') SAND (SP); white (10YR 9/1), wet, moderately graded, fine-medium grained, well-subrounded.		228,148,264, 219	28	
				122,111,118	29	
30				131,183,157	30	
				137,109,152	31	-25
		(32') SAND (SP); light gray (5Y 7/1), wet, well-graded, fine-coarse grained, subrounded.		264,100,118	32	
				158,527,239, 133,173	33	
				131,251,132	34	
35				151,180,242	35	
				112,150,162	36	
	(36') Boring terminated.					

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 13.6'-18' and 19'-36'.

Drilling Start Date: 04/22/2020	Boring Depth (ft): 36
Drilling End Date: 04/22/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 9.4
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 7.43
Logged By: N. Quick	North, East (Y,X): 340053.32, 926849.35

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			5
			(8') No recovery.			0
			(9.4') CLAY (CL); brown (7.5YR 7/4) and gray (10YR 7/1), wet, very soft, low plasticity, mottling present.	204,192,185	10	
			(11.1') SILTY CLAY (CL); gray (2.5Y 7/1), wet, soft, high plasticity, PP=0.75.	126,396,358, 148,373	11	
			(12') No recovery.	NA,NA,NA	12	-5
			(12.8') SILT (ML); gray (10YR 5/1), wet, cohesive.	165,262,170	13	
			(14.8') SAND (SP); gray (10YR 7/1) and tan (2.5Y 7/8), wet, poorly graded, fine grained, well-rounded.	287,278,240	14	
			(16') Same as above, 0.5" oxidized at 18 and 18.9 feet bgs.	184,275,158	15	
				163,183,197	16	
				103,102,151	17	-10
				229,139,186	18	
			(19.3') SAND (SP); tan (10YR 6/6), wet, moderately graded, fine-medium grained, well-rounded.	164,468,134, 127	19	
			(20') Same as above with black mottling from 21-22 feet bgs.	270,NAx4	20	
				172,144,204	21	
				90,128,112	22	-15
				199,204,152	23	
				221,194,188	24	

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 9'-14' and 19'-32'.

Drilling Start Date: 04/22/2020	Boring Depth (ft): 36
Drilling End Date: 04/22/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 9.4
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 7.43
Logged By: N. Quick	North, East (Y,X): 340053.32, 926849.35

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)	
				XRF Barium (ppm)	Sample Depth		
25			(24') SAND (SP); tan (10YR 5/8), wet, well-graded, medium-fine grained with trace coarse sand, subrounded. <i>(continued)</i>	321,229,554	25	-20	
				163,132,394	26		
					349,125,185		27
				(28') SAND (SP); gray (2.5Y 7/1), wet, well-graded, fine-coarse grained, subrounded.	301,352,279		28
					270,NAx4		29
30					87,95,153		30
				(30.8') SAND (SP); light brown (2.5Y 6/8) and yellow (5Y 8/A), wet, moderately graded, medium-coarse grained, subrounded.	121,167,284		31
				(31.7') SILT (ML); gray (5Y 5/1), wet, trace fine sand, cohesive.	76,97,96		32
				(32') Green gray (GLEY 5G 7/2).	102,121,100		33
35					97,114,106		34
				99,79,113	35		

(36') Boring terminated.

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
Composite samples collected from the following intervals were submitted for laboratory analysis: 9'-14' and 19'-32'.

Drilling Start Date: 04/22/2020	Boring Depth (ft): 36
Drilling End Date: 04/22/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 17.4
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 11.26
Logged By: N. Quick	North, East (Y,X): 340987.13, 927179.11

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			10
			(8') No recovery.			5
9.1			(9.1') CLAY (CL); gray/green (5G 7/1), soft, high plasticity, trace silt, with organics present from 9.1-10.4 feet bgs.	122,412,278	9	
10				196,249,299	10	
11			(11.4') ORGANIC CLAY (OH); black (5Y 2.5/1).	331,284,338	11	0
			(11.7') CLAY (CL); gray (GLEYS 1 7/N), soft, high plasticity.			
			(12') No recovery.			
14			(14') CLAY (CL); gray (GLEYS 1 7/N), soft, high plasticity.	105,145,129	14	
14.4			(14.4') SILT (ML); gray (GLEYS 1 7/N), moist, cohesive.	149,279,137	15	
14.6			(14.6') SILTY CLAY (CL); black (5Y 2.5/1) and gray (GLEYS 8/N), high plasticity, organics.			
15.2			(15.2') ORGANIC CLAY (OH); black (5Y 2.5/1), soft, high plasticity.			-5
16			(16') No recovery.	268,178,132	17	
17.4			(17.4') CLAY (CL); gray (GLEYS 1 5/N), wet, soft, high plasticity, with black mottling.	322,755,212,1152	18	
19			(19') SILTY CLAY (CL); green/gray (GLEYS 1 5G 7/1), wet, soft, high plasticity.	238,432,284	19	
20			(20') No recovery.	374,328,325	20	
20.6			(20.6') SILTY CLAY (CL); green/gray (GLEYS 1 5G 7/1), wet, soft, high plasticity.	271,650,157,412	21	-10
22.1			(22.1') SILTY SAND (SM); gray (2.5Y 6/1), wet, poorly graded, fine grained, sulfur smell.	489,159,250	22	
				131,291,227	23	
23.5			(23.5') SAND (SP); dark gray (2.5Y 5/1), wet, poorly graded, fine grained, rounded with trace tree roots and sulfur smell.	146,89,223	24	

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 11'-22' and 24'-32'.

Drilling Start Date: 04/22/2020	Boring Depth (ft): 36
Drilling End Date: 04/22/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 17.4
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 11.26
Logged By: N. Quick	North, East (Y,X): 340987.13, 927179.11

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25			(24') SAND (SP); light gray (2.5Y 7/2), wet, poorly graded, fine grained, well-rounded.	111,153,122	25	
			(24.7') SAND (SP); brown (2.5Y 6/4), wet, poorly graded, fine grained, well-subrounded with trace tree roots. (continued)	NAx4	26	-15
			(27') SAND (SP); brown (2.5Y 6/4), wet, moderately graded, medium grained, subrounded.	196,158,224	27	
			(27.3') SAND (SP); gray (2.5Y 7/1), wet, poorly graded, fine grained, well-rounded with tree root.	126,160,161	28	
			(27.5') SAND (SP); gray (2.5Y 7/1), wet, very well-graded, fine-coarse grained, subrounded with tree roots.	175,142,158	29	
			(27.7') SAND (SP); gray (5Y 6/1), poorly graded, fine grained with trace clay, well-rounded.	181,146,104	30	
			(28') SAND (SP); dark gray (2.5Y 6/1), wet, very well-graded, fine-coarse grained and subrounded, with gravel.	180,361,121	31	-20
			(30.6') SAND (SP); dark gray (5Y 6/1), wet, poorly graded, fine grained, well-rounded with tree roots.	97,114,100	32	
			(32') SILTY CLAY (CL); green/and gray (GLEY 1 5G 8/1), wet, soft, high plasticity.	121,90,106	33	
				114,102,91	34	
35				101,128,84	35	

(36') Boring terminated.

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
NA - Not Analyzed
Composite samples collected from the following intervals were submitted for laboratory analysis: 11'-22' and 24'-32'.

Drilling Start Date: 04/23/2020	Boring Depth (ft): 40
Drilling End Date: 04/23/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 17.7
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 19.07
Logged By: N. Quick	North, East (Y,X): 341077.27, 926528.46

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			
5						15
10						10
15						5
16			(16') No recovery.			
17.7			(17.7') SAND (SP); gray (5Y 7/1), wet, poorly graded, well-rounded.	453,730,281,	18	
18.3			(18.3') CLAY (CL); black (5Y 2.5/1), soft, high plasticity, trace silt, organics with tree root at 19.2 feet bgs.	208,249	19	0
19				1339,160,184,		
20			(20') No recovery.			
21.2			(21.2') SILTY CLAY (CL); brown (2.5Y 4/3) and tan (10YR 7/8), wet, soft, high plasticity, mottled.	248,231,276	21	
22				227,239,106,	22	
22				142		
23			(23') SAND (SP); gray (5Y 7/1), wet, poorly graded, fine grained, well-rounded.			
24			(24') CLAY (CL); gray (5Y 6/1), wet, soft, high plasticity.	270,141,336,	24	-5
25				513		

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
NA - Not Analyzed
Composite samples collected from the following intervals were submitted for laboratory analysis: 18.3'-28' and 28'-40'.

Drilling Start Date: 04/23/2020	Boring Depth (ft): 40
Drilling End Date: 04/23/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 17.7
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 19.07
Logged By: N. Quick	North, East (Y,X): 341077.27, 926528.46

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25				300,215,319	25	
			(25.6') SILTY CLAY (CL); gray (2.5Y 7/1), wet, soft, high plasticity, mottled.	261,340,131,218	26	
				228,297,294	27	
			(28') Same as above.	220,192,222	28	
			(28.7') SAND (SP); gray (5Y 7/1), wet, poorly graded, fine grained, well-rounded, sulfur odor.	82,238,124,276	29	-10
30				184,317,253,107	30	
				142,97,216	31	
			(32') Same as above.	102,92,203	32	
				NAx5	33	
				200,119,280	34	-15
35			(34.9') SAND (SP); black (10YR 3/1), wet, moderately graded, medium grained, subrounded.	196,265,200	35	
			(35.7') SAND (SP); gray (2.5Y 5/1), wet, well-graded, fine-coarse grained, subrounded.	247,205,154	36	
			(36') SAND (SP); tan (2.5Y 7/4), wet, well-graded, fine-medium grained with trace coarse sand.	252,121,370,229	37	
				101,121,215	38	
			(39.1') SAND (SP); gray (5Y 7/1), wet, well-graded, fine-coarse grained, subrounded.	278,107,607,284	39	-20
40			(40') Boring terminated.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 18.3'-28' and 28'-40'.

Drilling Start Date: 04/24/2020	Boring Depth (ft): 40
Drilling End Date: 04/24/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 18.5
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 21.30
Logged By: N. Quick	North, East (Y,X): 341072.03, 925222.91

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			20
5						15
10						10
15						5
16'			(16') No recovery.			5
17.4'			(17.4') CLAY (CL); gray (2.5Y 7/1), moist, soft, high plasticity, mottling present.	181,147,133	17	17
18.5'			(18.5') SILTY CLAY (CL); dark gray (2.5Y 3/1), wet, soft, high plasticity.	161,173,242	18	18
19.1'			(19.1') CLAY (CL); gray (2.5Y 7/1), wet, soft, high plasticity, trace silt.	112,129,154	19	19
20'			(20') No recovery.			
21.2'			(21.2') CLAY (CL); gray (2.5Y 7/1), wet, soft, high plasticity, trace silt.	135,169,225	21	0
22.5'			(22.5') ORGANIC SILT (OL); black (5Y 2.5/1), wet, cohesive.	350,142,188	22	22
22.7'			(22.7') SILTY CLAY (CL); dark gray (2.5Y 3/1), wet, soft, medium plasticity.	156,142,265	23	23
23.3'			(23.3') ORGANIC SILT (OL); black (5Y 2.5/1), wet, cohesive.	185,102,142	24	24

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 17.4'-28.6' and 28.6'-40'.

Drilling Start Date: 04/24/2020	Boring Depth (ft): 40
Drilling End Date: 04/24/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 18.5
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 21.30
Logged By: N. Quick	North, East (Y,X): 341072.03, 925222.91

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25			(23.4') SILTY CLAY (CL); gray (5Y 5/1), wet, soft, high plasticity.	149,165,318,178	25	-5
			(23.7') SILTY CLAY (CL); black (5Y 2.5/1), wet, soft, high plasticity.	104,212,227	26	
			(24') No recovery.		27	
			(24.6') SILTY CLAY (CL); dark gray (5Y 4/1), wet, soft, high plasticity. <i>(continued)</i>	143,225,315	27	
			(26.6') CLAY (CL); gray (10YR 6/1) and tan (2.5Y 7/8), wet, very soft, high plasticity, mottling.	145,299,209	28	
			(28') Same as above.		29	
			(28.6') SAND (SP); gray (2.5Y 5/1), wet, poorly graded, fine grained, well-rounded.	181,114,211	29	
30				419,175,157	30	
			(31.1') SAND (SP); white (2.5Y 9.5/1), wet, moderately graded, fine-medium grained, well-rounded.	172,275,150	31	
			(32') Same as above.	156,322,192	32	
				85,122,101	33	
				115,73,102	34	
35			(34.8') SAND (SP); white (10YR 9.5/1), wet, well-graded, fine-coarse grained, rounded.	1192,137,226,74,104	35	
			(36') Same as above, unable to retrieve core depth profile.	102,132,128	36	
				117,162,148	37	
				108,147,62	38	
				124,77,100	39	
40			(40') Boring terminated.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 17.4'-28.6' and 28.6'-40'.

Drilling Start Date: 04/23/2020	Boring Depth (ft): 30
Drilling End Date: 04/23/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 15.5
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 19.04
Logged By: N. Quick	North, East (Y,X): 341077.45, 924041.55

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			
5						15
10						10
12			(12') No recovery.			
13.1			(13.1') SILT (ML); brown (10YR 7/8) and gray (10YR 4/1), moist, trace clay, oxidized.	126,202,246	13	
13.7			(13.7') SILTY SAND (SM); dark gray (2.5Y 4/1) and white (2.5Y 8/1), moist, moderately graded, fine grained, well-rounded.	171,173,263	14	5
14.6			(14.6') SILT (ML); dark gray (5Y 4/1), moist, cohesive.	91,121,196	15	
14.9			(14.9') SILT (ML); white/tan (2.5Y 8/3), moist, cohesive with tree root at base.	76,283,149	16	
15.3			(15.3') CLAYEY SILT (ML); dark gray (2.5Y 3/1), moist, cohesive.	255,238,226	17	
15.5			(15.5') SILT (ML); dark gray (5Y 3/1), wet, slightly cohesive.			
16			(16') No recovery.	141,196,94	18	
16.5			(16.5') SILT (ML); dark gray (5Y 3/1), wet, slightly cohesive.	155,132,219	19	0
17.6			(17.6') SILTY CLAY (CL); light gray (10YR 7/1) and light brown (10YR 6/8), wet, soft, high plasticity.			
20			(20') No recovery.			
20.9			(20.9') SILTY CLAY (CL); light gray (10YR 7/1) and light brown (10YR 6/8), wet, soft, high plasticity.	163,114,146	21	
22				336,130,229,453	22	
23				116,274,187	23	
23.4			(23.4') SAND (SP); gray (2.5Y 7/1) and tan (2.5Y 7/6), wet, poorly graded, fine grained, well-rounded.	120,260,164	24	-5
24			(24') Same as above.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
NA - Not Analyzed
Composite samples collected from the following intervals were submitted for laboratory analysis: 15'-23.4' and 23.4'-30'.

Drilling Start Date: 04/27/2020	Boring Depth (ft): 48
Drilling End Date: 04/27/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 16
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 16.19
Logged By: N. Quick	North, East (Y,X): 341427.88, 922062.16

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				XRF Barium (ppm)	Sample Depth
0			(0') Not sampled.		
16		▽	(16') SAND (SP); gray (5Y 7/1), wet, poorly graded, fine grained, well-rounded.		
17.4			(17.4') SANDY CLAY (CL); gray (5Y 7/1), wet, soft, high plasticity.		
17.6			(17.6') CLAY (CL); dark gray (5Y 5/1), wet, soft, high plasticity.		
20			(20') Same as above.		
24			(24') Same as above with trace silt at base.		

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
Composite samples collected from the following intervals were submitted for laboratory analysis: 17'-33' and 36'-48'.

Drilling Start Date: 04/27/2020	Boring Depth (ft): 48
Drilling End Date: 04/27/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 16
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 16.19
Logged By: N. Quick	North, East (Y,X): 341427.88, 922062.16

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				XRF Barium (ppm)	ELEVATION (ft)
25			(17.6') CLAY (CL); dark gray (5Y 5/1), wet, soft, high plasticity. <i>(continued)</i>		
			(25.8') SILTY CLAY (CL); black, wet, soft, high plasticity, organics.		-10
			(26') SILTY CLAY (CL); gray (2.5Y 6/1), wet, soft, high plasticity.		
			(28') Same as above.		
30					-15
			(31.8') SAND (SP); light gray (5Y 8/1), wet, poorly graded, fine grained, well-rounded.		
			(32') SILTY CLAY (CL); dark gray/black (2.5Y 4/1), wet, soft, high plasticity.		
			(33.5') SAND (SP); dark gray (2.5Y 4/1), wet, poorly graded, fine grained, well-rounded.		
			(34.2') CLAY (CL); dark gray, wet, soft, high plasticity.		
35			(34.4') SAND (SP); gray, poorly graded, fine grained, well-rounded.		
			(34.7') CLAY (CL); dark gray, wet, soft, high plasticity.		-20
			(35') SAND (SP); gray, poorly graded, fine grained, well-rounded.		
			(35.3') CLAY (CL); dark gray, wet, soft, high plasticity.		
			(35.7') SAND (SP); gray, poorly graded, fine grained, well-rounded.		
			(36') SAND (SP); dark gray (5Y 4/1), wet, poorly graded, fine-medium grained, well-rounded.		
40			(40') No recovery.		-25
			(41.6') SAND (SP); dark gray (5Y 4/1), wet, poorly graded, fine-medium grained, well-rounded.		
45			(44') SAND (SP); dark gray, wet, well-graded, fine-coarse grained, rounded with tree roots/organics at 47.6 feet bgs.		-30
			(48') Boring terminated.		

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
Composite samples collected from the following intervals were submitted for laboratory analysis: 17'-33' and 36'-48'.

Drilling Start Date: 04/27/2020	Boring Depth (ft): 48
Drilling End Date: 04/27/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 19.29
Logged By: N. Quick	North, East (Y,X): 341900.18, 922044.11

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				XRF Barium (ppm)	Sample Depth
0			(0') Not sampled.		
5					
10					
15					
20		▽	(20') CLAY (CL); dark gray (5Y 4/1), wet, soft, high plasticity, with gravel at 20.5 and 23.5-23.6 bgs.		
25			(24') Same as above.		

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 Composite samples collected from the following intervals were submitted for laboratory analysis: 24'-34' and 35'-48'.

Drilling Start Date: 04/27/2020	Boring Depth (ft): 48
Drilling End Date: 04/27/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 19.29
Logged By: N. Quick	North, East (Y,X): 341900.18, 922044.11

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25			(24.8') CLAY (CL); black (2.5Y 1/1), wet, soft, high plasticity, organics.			
			(24.9') CLAY (CL); dark gray (5Y 4/1), wet, soft, high plasticity. <i>(continued)</i>			
			(25.1') SILTY CLAY (CL); gray (5Y 6/1), wet, soft, high plasticity.			
			(28') Same as above with mottling present.			-10
30			(32') CLAY (CL); gray (2.5Y 6/1), wet, soft, high plasticity.			
			(33') CLAY (CL); brown (10YR 5/8), wet, soft, high plasticity.			
			(34.1') SILT (ML); dark gray (2.5Y 5/1), wet, cohesive with tree root present at 34.4-34.5 feet bgs.			-15
35			(35') SAND (SP); light gray (5Y 7/1), wet, poorly graded, fine grained, well-rounded with tree roots present from 35.3-35.6 feet bgs.			
			(36') SAND (SP); gray (5Y 6/1), wet, moderately graded, fine-medium grained, well-rounded.			
			(40') Trace coarse gravel.			-20
			(44') No recovery.			-25
45			(45') SAND (SP); light gray (5Y 7/1), wet, well-graded, fine-coarse grained, rounded.			
			(48') Boring terminated.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
Composite samples collected from the following intervals were submitted for laboratory analysis: 24'-34' and 35'-48'.

Drilling Start Date: 04/28/2020	Boring Depth (ft): 52
Drilling End Date: 04/28/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 20.42
Logged By: N. Quick	North, East (Y,X): 342239.97, 922047.65

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				XRF Barium (ppm)	Sample Depth
0			(0') Not sampled.		
5					
10					
15					
20		▽	(20') CLAY (CL); dark gray (5Y 4/1), wet, very soft, high plasticity, trace silt.		
23			(23') SILTY CLAY (CL); black (5Y 1/1), wet, soft, high plasticity, with organics.		
23.1			(23.1') CLAY (CL); dark gray (5Y 4/1), wet, very soft, high plasticity, trace silt.		
23.6			(23.6') SILTY CLAY (CL); gray (2.5Y 6/1), wet, soft, high plasticity.		
25					

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
Composite samples collected from the following intervals were submitted for laboratory analysis: 28'-40' and 44'-52'.


Drilling Start Date: 04/28/2020	Boring Depth (ft): 52
Drilling End Date: 04/28/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 20.42
Logged By: N. Quick	North, East (Y,X): 342239.97, 922047.65

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				XRF Barium (ppm)	ELEVATION (ft)
25			(24') CLAYEY SILT (ML); gray (2.5Y 6/1), wet, non-cohesive.		-5
			(24.4') SILTY CLAY (CL); gray (2.5Y 6/1), wet, soft, high plasticity. <i>(continued)</i>		
			(25.8') SILT (ML); gray (5Y 6/1), wet, cohesive.		
			(26.6') SAND (SP); light gray (5Y 7/1), wet, poorly graded, fine grained with trace medium gravel at base, well-rounded.		
			(28') Same as above.		
			(28.5') SILTY CLAY (CL); light gray, wet, soft, high plasticity.		
30			(28.8') SILT (ML); light gray, wet, cohesive.		-10
			(29.1') SILTY CLAY (CL); light gray, wet, soft, high plasticity.		
			(29.5') CLAY (CL); brown (7.5YR 7/7), moist, soft, high plasticity, trace silt.		
			(32') Same as above.		
			(34') CLAY (CL); dark gray (5Y 4/1), wet, soft, high plasticity.		
35			(34.3') SILTY CLAY (CL); dark gray (5Y 4/1), wet, soft, high plasticity.		-15
			(35.1') CLAY (CL); dark gray (5Y 3/1), wet, soft, high plasticity.		
			(36') With brown tree roots from 36-36.2 feet bgs.		
			(36.7') SILTY CLAY (CL); dark gray (5Y 4/1), wet, soft, high plasticity.		
			(36.9') CLAY (CL); dark brown, wet, soft, high plasticity, mottling present.		
40			(40') CLAYEY SILT (ML); dark gray (5Y 4/1), wet, trace gray fine sand (5Y 6/1), slightly cohesive with tree roots present.		-20
			(42.1') SAND (SP); gray (5Y 5/1), wet, moderately graded, fine-medium grained, rounded.		
			(43.7') SAND (SP); brown, fine grained with clay lens.		
45			(44') SAND (SP); light gray (2.5Y 8/1), moist, moderately graded, fine-medium grained, rounded.		-25
			(48') Same as above.		
50					

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
Composite samples collected from the following intervals were submitted for laboratory analysis: 28'-40' and 44'-52'.

Drilling Start Date: 04/28/2020	Boring Depth (ft): 52
Drilling End Date: 04/28/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 20.42
Logged By: N. Quick	North, East (Y,X): 342239.97, 922047.65

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	

50			(44') SAND (SP); light gray (2.5Y 8/1), moist, moderately graded, fine-medium grained, rounded. <i>(continued)</i>			-30
			(51.3') SAND (SP); light gray (2.5Y 9/1), moderately graded, coarse grained with gravel, rounded.			
			(51.5') SAND (SP); whites, wet, well-graded, fine-coarse grained, rounded.			
			(52') Boring terminated.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
Composite samples collected from the following intervals were submitted for laboratory analysis: 28'-40' and 44'-52'.

APPENDIX C

ProUCL Output

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.18/3/2020 10:39:21 AM									
5	From File		Interior Well Data ProUCL.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Number of Bootstrap Operations		2000									
9												
10												
11	Barium (Ash)											
12												
13	General Statistics											
14	Total Number of Observations			7			Number of Distinct Observations			6		
15							Number of Missing Observations			0		
16	Minimum			0.075			Mean			0.226		
17	Maximum			0.78			Median			0.11		
18	SD			0.254			Std. Error of Mean			0.0962		
19	Coefficient of Variation			1.124			Skewness			2.264		
20												
21	Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use											
22	guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.											
23	For example, you may want to use Chebyshev UCL to estimate EPC (ITRC, 2012).											
24	Chebyshev UCL can be computed using the Nonparametric and All UCL Options of ProUCL 5.1											
25												
26	Normal GOF Test											
27	Shapiro Wilk Test Statistic			0.651			Shapiro Wilk GOF Test					
28	5% Shapiro Wilk Critical Value			0.803			Data Not Normal at 5% Significance Level					
29	Lilliefors Test Statistic			0.362			Lilliefors GOF Test					
30	5% Lilliefors Critical Value			0.304			Data Not Normal at 5% Significance Level					
31	Data Not Normal at 5% Significance Level											
32												
33	Assuming Normal Distribution											
34	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
35	95% Student's-t UCL			0.413			95% Adjusted-CLT UCL (Chen-1995)			0.473		
36							95% Modified-t UCL (Johnson-1978)			0.427		
37												
38	Gamma GOF Test											
39	A-D Test Statistic			0.851			Anderson-Darling Gamma GOF Test					
40	5% A-D Critical Value			0.721			Data Not Gamma Distributed at 5% Significance Level					
41	K-S Test Statistic			0.349			Kolmogorov-Smirnov Gamma GOF Test					
42	5% K-S Critical Value			0.317			Data Not Gamma Distributed at 5% Significance Level					
43	Data Not Gamma Distributed at 5% Significance Level											
44												
45	Gamma Statistics											
46	k hat (MLE)			1.522			k star (bias corrected MLE)			0.965		
47	Theta hat (MLE)			0.149			Theta star (bias corrected MLE)			0.235		
48	nu hat (MLE)			21.31			nu star (bias corrected)			13.51		
49	MLE Mean (bias corrected)			0.226			MLE Sd (bias corrected)			0.23		
50							Approximate Chi Square Value (0.05)			6.237		
51	Adjusted Level of Significance			0.0158			Adjusted Chi Square Value			4.827		
52												
53	Assuming Gamma Distribution											

	A	B	C	D	E	F	G	H	I	J	K	L
54	95% Approximate Gamma UCL (use when n>=50))					0.49	95% Adjusted Gamma UCL (use when n<50)					0.634
55												
56	Lognormal GOF Test											
57	Shapiro Wilk Test Statistic					0.826	Shapiro Wilk Lognormal GOF Test					
58	5% Shapiro Wilk Critical Value					0.803	Data appear Lognormal at 5% Significance Level					
59	Lilliefors Test Statistic					0.306	Lilliefors Lognormal GOF Test					
60	5% Lilliefors Critical Value					0.304	Data Not Lognormal at 5% Significance Level					
61	Data appear Approximate Lognormal at 5% Significance Level											
62												
63	Lognormal Statistics											
64	Minimum of Logged Data					-2.59	Mean of logged Data					-1.848
65	Maximum of Logged Data					-0.248	SD of logged Data					0.826
66												
67	Assuming Lognormal Distribution											
68	95% H-UCL					0.656	90% Chebyshev (MVUE) UCL					0.406
69	95% Chebyshev (MVUE) UCL					0.495	97.5% Chebyshev (MVUE) UCL					0.618
70	99% Chebyshev (MVUE) UCL					0.862						
71												
72	Nonparametric Distribution Free UCL Statistics											
73	Data appear to follow a Discernible Distribution at 5% Significance Level											
74												
75	Nonparametric Distribution Free UCLs											
76	95% CLT UCL					0.385	95% Jackknife UCL					0.413
77	95% Standard Bootstrap UCL					0.374	95% Bootstrap-t UCL					1.83
78	95% Hall's Bootstrap UCL					1.4	95% Percentile Bootstrap UCL					0.387
79	95% BCA Bootstrap UCL					0.49						
80	90% Chebyshev(Mean, Sd) UCL					0.515	95% Chebyshev(Mean, Sd) UCL					0.646
81	97.5% Chebyshev(Mean, Sd) UCL					0.827	99% Chebyshev(Mean, Sd) UCL					1.183
82												
83	Suggested UCL to Use											
84	95% H-UCL					0.656						
85												
86	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
87	Recommendations are based upon data size, data distribution, and skewness.											
88	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
89	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
90												
91	ProUCL computes and outputs H-statistic based UCLs for historical reasons only.											
92	H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.											
93	It is therefore recommended to avoid the use of H-statistic based 95% UCLs.											
94	Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.											
95												

APPENDIX D

Geochemical Modeling Summary

Memorandum

Date: 7 August 2020
To: Charles Blount, Mississippi Power Company
Copies to: Brant Pettis, Balch & Bingham, LLP; Lauren Parker-Collins and Eric Wallis, Southern Company Services
From: Hari Parthasarathy, Ben Amos, Lane Dorman, Lauren Fitzgerald, Geosyntec Consultants, Inc. (Geosyntec)
Subject: Plant Watson Former CCR Unit - Geochemical Modeling of Barium Dissolution from Barite

INTRODUCTION AND OBJECTIVES

In accordance with the Coal Combustion Residuals (CCR) Rule, a groundwater monitoring system was installed at the boundary of the former CCR Unit at Mississippi Power Plant Jack Watson Electric Generating Plant (site). Statistical analysis of groundwater monitoring data collected in August 2019 and March 2020 identified statistically significant levels (SSL) of barium at the downgradient compliance well APMW-2.

One potential mechanism that could explain the barium SSL is the dissolution of barium from naturally-occurring barium containing minerals and deposits such as barite (BaSO_4) which is sparingly soluble in water.

Geosyntec developed an equilibrium geochemical model (Model herein) using the United States Geologic Service (USGS) PHREEQC program to:

- evaluate whether dissolution of barium from naturally-occurring barite could result in the SSL at APMW-2; and
- more generally, whether the dissolution of barium from barite could explain the observed concentrations at downgradient compliance wells at the former CCR Unit.

This purpose of this memorandum is to describe the Model approach, inputs, outputs, and results.

DEFINITIONS

The following standard terms were defined in the development of this Model:

Equilibrium Phases: Crystalline compounds with well-defined chemical compositions that make up the groundwater aquifer/formation matrix.

Solution: The groundwater present in the aquifer/formation that interacts with the matrix.

Model Run: A simulation of the geochemical mode with defined Equilibrium Phases and Solution chemistry.

MODELING APPROACH

PHREEQC is computer program for simulating chemical reactions and transport processes in natural and engineered systems¹. The program is based on the chemistry of aqueous solutions interacting with minerals, gases, solid solutions, exchangers, and sorption surfaces. Although PHREEQC can simulate kinetic reactions with rate equations, this Model was developed as an equilibrium simulation, and kinetics of precipitation and/or dissolution reactions were not evaluated. The inputs and outputs used in this Model are described below.

Approach

The Model was developed to simulate equilibrium conditions between groundwater and the aquifer matrix. Each Model Run consisted of an assumed solid-phase concentration of barite as the only barium source mineral in the matrix. Five different simulations were run with Solution chemistries defined based on observed groundwater concentrations at the following wells: APMW-1R, APMW-2, APMW-3, APMW-4, and APMW-5. The wells were chosen based on their geographical location to be representative of general groundwater quality around the former CCR Unit.

The outputs generated by the Model were evaluated to assess the concentration of dissolved barium and compared to observed barium groundwater concentrations. As a conservative approach, Solutions (i.e., groundwater) were assumed to not contain any barium prior to the equilibrium reaction (i.e., it was assumed that the barium observed in groundwater monitoring wells was a

¹ Parkhurst, D.L. and Appelo, C.A.J., 1999. User's guide to PHREEQC (Version 2): A computer program for speciation, batch-reaction, one-dimensional transport, and inverse geochemical calculations.

result of barite dissolution only). Model inputs and outputs are described in detail in the next sections.

Inputs

For the purposes of simulating actual conditions, the Model simulations assume a fixed mass of barite in the matrix. Soil samples collected using direct push technology (DPT) in April 2020 were analyzed for total barium. The average barium concentration (24.4 milligrams per kilogram) was assumed to be in the form of barite (i.e., 0.004% barite). This is consistent with X-ray diffraction (XRD) data, that indicates barite concentrations at the site are below the XRD detection limit of 0.5% by mass in the aquifer matrix. Based on the assumed concentration of barite, the calculated mass of barite in 1 kilogram (Kg) of host formation was 0.0002 moles. Although the XRD data indicates the presence of other mineral phases such as quartz and feldspar, the Model assumes that the only reactive mineral of interest is barite.

For the purpose of simulating barite dissolution, groundwater data collected from April 2018 through August 2019 was used to calculate the average composition of each well (**Table D1**). Typically, calcium, chloride, pH, sulfate, and oxidation-reduction potential (ORP) have been measured in the modeled wells as part of the CCR Rule and were used to develop average compositions for the Model. For other necessary parameters for the Model such as sodium, magnesium, potassium, and alkalinity, data from wells installed beneath the former CCR Unit and screened in the same aquifer unit as the CCR compliance wells were utilized to develop average compositions (**Table D1**). As stated previously, barium was assumed to be absent in the groundwater prior to Model simulation and as such was excluded from the inputs to the Model.

Geochemical Database

The PHREEQC program includes several databases of geochemical and thermodynamic data. Since the groundwater at the site is generally high in ionic strength, the *pitzer.dat* database was used in this Model. The *pitzer.dat* database included empirical thermodynamic data for ionic strength simulations.

Outputs

The primary output from the Model was the concentration of barium in the groundwater after reaction. From each Model Run, the simulated concentration of barium was converted to typical units (milligrams per liter [mg/L]) and compared to the average observed concentration of the wells of interest.

PHREEQC Input and Output files are presented in **Attachment D1**.

ASSUMPTIONS

To evaluate the geochemical interactions between groundwater and barite, the following assumptions were made:

1. The only source of barium in the aquifer is barite, present at 0.004%;
2. The distribution of barite is homogenous in the aquifer; and
3. Dissolution kinetics do not influence the final concentration of observed barium in groundwater (i.e., the system is in equilibrium)

DISSOLUTION OF BARITE

The simulated concentration of barium at each modeled monitoring well was compared to the average observed barium concentration (**Figure D1**).

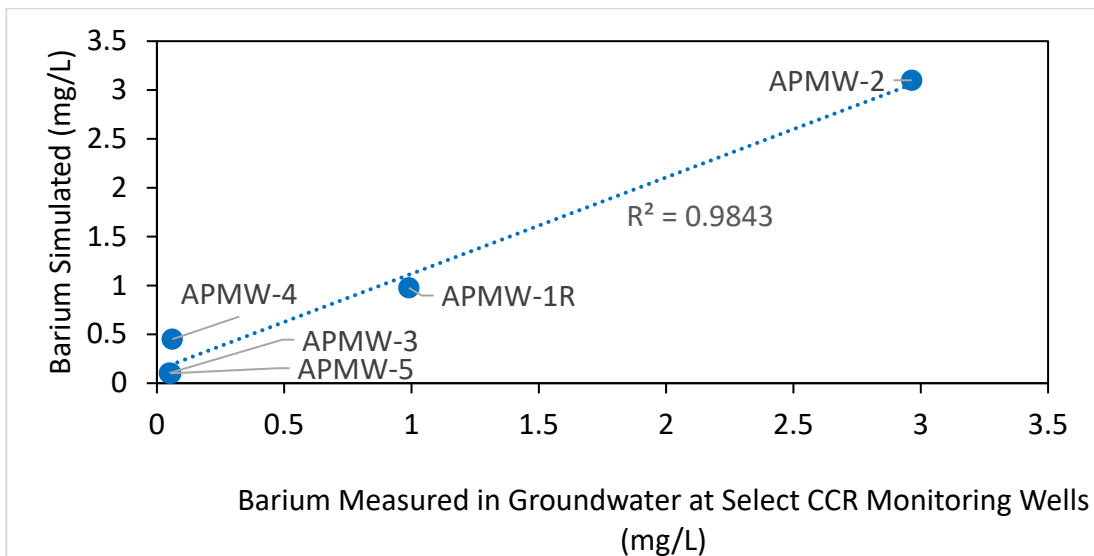


Figure D1. Comparison of Simulated and Average Observed Concentrations of Barium

As presented in **Figure D1**, the simulated concentrations of barium are similar to the average observed concentrations at the downgradient compliance wells.

In general, the Model predicted dissolution of barite to be enhanced by low sulfate concentrations and/or high ionic strength, as reported in the literature².

- The Model predicts that an increase in groundwater ionic strength (i.e., salinity) results in increased barium dissolution from barite. This could serve as a potential mechanism for release of barium from naturally-occurring barite in site soils where ionic strength of groundwater is relatively high. A prior evaluation³ indicated that the geochemical conditions of groundwater beneath the former CCR Unit resemble the adjacent saline/brackish surface water with high concentrations of total dissolved solids (TDS) and chloride (i.e., high ionic strength).
- The Model supports the theory that low concentrations of sulfate result in increased barium dissolution from barite. As barite dissolution would result in the release of sulfate, the concentration of sulfate in groundwater will limit barite dissolution (API, 1995). Low sulfate concentrations are observed in select downgradient monitoring wells (e.g., APMW-1R and APMW-2), where barium groundwater concentrations are higher. Therefore, low sulfate driven barite dissolution could serve as a contributing mechanism to the observed barium SSL in APMW-2.

A sensitivity analysis was performed on assumed parameters such as alkalinity, sodium, potassium, and barite mass. Sensitivity analyses indicate that the Model has low to minimal sensitivity to the assumed parameters. Additionally, the actual mass of barite in the subsurface necessary to achieve observed concentrations was found to be no greater than 0.004%. This suggests that low-levels of barite in site soils are likely sufficient to results in the observed groundwater concentrations.

CONCLUSIONS

The results of this equilibrium geochemical model indicate that the concentration of barium observed at APMW-2 and other compliance wells can result from the dissolution of naturally-occurring barite when in contact with site groundwater.

² American Petroleum Institute (API), September 1995. Barium in Produced Water: Fate and Effects in the Marine Environment. Health and Environmental Sciences Department Publication Number 4633

³ Southern Company Services, 1995. Groundwater Quality, Ash Pond Dike Upgrade and Ash Management Study. Plant Jack Watson. March.

Table D1. Summary of Assumed Input Concentrations
Plant Watson, Gulfport, Mississippi

Well ID	Alkalinity (mg/L)	Barium ⁵ (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	pH (s.u.)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)
APMW-1R	95	0.00	139	1944	9	6.7	173	902	9.9
APMW-2	376	0.00	343	2720	284	6.0	33	977	4.5
APMW-3	441	0.00	321	10650	586	6.6	173	5986	1140.0
APMW-4	550	0.00	193	3960	65	6.4	48	1427	322.0
APMW-5	404	0.00	324	8790	587	6.4	173	5482	961.0

Notes:

1. mg/L indicates milligrams per liter.
2. s.u. indicates standard units.
3. Concentrations of alkalinity, magnesium, potassium, sodium assumed based on data collected from monitoring wells installed beneath the Former CCR Unit and screened in the same aquifer as CCR compliance wells.
4. Concentrations of calcium, chloride, sulfate, and pH calculated based on observed concentrations from April 2018 through August 2019.
5. Groundwater assumed to contain no barium prior to reaction in Model simulations.

ATTACHMENT D1
PHREEQC INPUT AND OUTPUT FILES

APMW-1R

SOLUTION 1 #APMW-1R

temp	20	
pH	6.7	
pe	-2.44	
redox	pe	
units	mmol/kgw	
density	1	
Alkalinity	95 mg/kgw	
Ba	0 mg/kgw	
Ca	139 mg/kgw	
Cl	1944 mg/kgw	charge
K	173 mg/kgw	
Mg	9 mg/kgw	
Na	902 mg/kgw	
S(6)	9.9 mg/kgw	
-water	1 # kg	

EQUILIBRIUM_PHASES 1

Barite	0	0.00018
--------	---	---------

Input file: \\aro-01\prj1\$\Mississippi Power\Plant Watson\05_Deliverables\09_ASD\01_ASD
 \05_Geochemical Modeling\Barite Simulations\APMW1R.pqi
 Output file: \\aro-01\prj1\$\Mississippi Power\Plant Watson\05_Deliverables\09_ASD\01_ASD
 \05_Geochemical Modeling\Barite Simulations\APMW1R.pqi
 Database file: C:\Program Files (x86)\USGS\Phreeqc Interactive 3.4.0-12927\database
 \pitzer.dat

 Reading data base.

SOLUTION_MASTER_SPECIES
 SOLUTION_SPECIES
 PHASES
 PITZER
 EXCHANGE_MASTER_SPECIES
 EXCHANGE_SPECIES
 SURFACE_MASTER_SPECIES
 SURFACE_SPECIES
 END

 Reading input data for simulation 1.

DATABASE C:\Program Files (x86)\USGS\Phreeqc Interactive 3.4.0-12927\database
 \pitzer.dat

SOLUTION 1 #APMW-1R
 temp 20
 pH 6.7
 pe -2.44
 redox pe
 units mmol/kgw
 density 1
 Alkalinity 95 mg/kgw
 Ba 0 mg/kgw
 Ca 139 mg/kgw
 Cl 1944 mg/kgw charge
 K 173 mg/kgw
 Mg 9 mg/kgw
 Na 902 mg/kgw
 S(6) 9.9 mg/kgw
 water 1 # kg
 EQUILIBRIUM_PHASES 1
 Barite 0 0.00018

 Beginning of initial solution calculations.

Initial solution 1.

-----Solution composition-----

Elements	Molality	Moles	
Alkalinity	1.898e-03	1.898e-03	
Ca	3.468e-03	3.468e-03	
Cl	4.923e-02	4.923e-02	Charge balance
K	4.425e-03	4.425e-03	
Mg	3.703e-04	3.703e-04	
Na	3.923e-02	3.923e-02	
S(6)	1.031e-04	1.031e-04	

-----Description of solution-----

pH = 6.700
 pe = -2.440
 Specific Conductance ($\mu\text{S}/\text{cm}$, 20°C) = 5119

Density (g/cm³) = 1.00045
 Volume (L) = 1.00268
 Activity of water = 0.998
 Ionic strength (mol/kgw) = 5.528e-02
 Mass of water (kg) = 1.000e+00
 Total carbon (mol/kg) = 2.703e-03
 Total CO2 (mol/kg) = 2.703e-03
 Temperature (°C) = 20.00
 Electrical balance (eq) = -2.131e-12
 Percent error, 100*(Cat-|An|)/(Cat+|An|) = -0.00
 Iterations = 9
 Gamma iterations = 3
 Osmotic coefficient = 0.93625
 Density of water = 0.99820
 Total H = 1.110143e+02
 Total O = 5.551393e+01

-----Distribution of species-----

Species	Molality	MacInnes Activity	Log Molality	MacInnes Log Activity	MacInnes Log Gamma	mole V cm ³ /mol
H+	2.402e-07	1.995e-07	-6.619	-6.700	-0.081	0.00
OH-	4.334e-08	3.425e-08	-7.363	-7.465	-0.102	-4.09
H2O	5.551e+01	9.983e-01	1.744	-0.001	0.000	18.05
C(4)	2.703e-03					
HCO3-	1.897e-03	1.727e-03	-2.722	-2.763	-0.041	24.62
CO2	8.053e-04	8.118e-04	-3.094	-3.091	0.003	34.19
CO3-2	8.938e-07	3.558e-07	-6.049	-6.449	-0.400	-3.56
MgCO3	4.666e-08	4.666e-08	-7.331	-7.331	0.000	-17.08
Ca	3.468e-03					
Ca+2	3.468e-03	1.530e-03	-2.460	-2.815	-0.355	-17.68
Cl	4.923e-02					
Cl-	4.923e-02	3.986e-02	-1.308	-1.400	-0.092	18.09
K	4.425e-03					
K+	4.425e-03	3.593e-03	-2.354	-2.445	-0.090	9.00
Mg	3.703e-04					
Mg+2	3.702e-04	1.661e-04	-3.432	-3.780	-0.348	-21.13
MgCO3	4.666e-08	4.666e-08	-7.331	-7.331	0.000	-17.08
MgOH+	9.313e-10	8.279e-10	-9.031	-9.082	-0.051	(0)
Na	3.923e-02					
Na+	3.923e-02	3.231e-02	-1.406	-1.491	-0.084	-1.47
S(6)	1.031e-04					
SO4-2	1.031e-04	3.760e-05	-3.987	-4.425	-0.438	14.75
HSO4-	7.620e-10	6.227e-10	-9.118	-9.206	-0.088	40.09

-----Saturation indices-----

Phase	SI**	log IAP	log K(293 K, 1 atm)	
Anhydrite	-3.05	-7.24	-4.19	CaSO4
Aragonite	-1.07	-9.26	-8.19	CaCO3
Arcanite	-7.37	-9.31	-1.95	K2SO4
Artinite	-10.27	9.77	20.05	Mg2CO3(OH)2:3H2O
Bischofite	-11.24	-6.58	4.65	MgCl2:6H2O
Bloedite	-13.27	-15.61	-2.35	Na2Mg(SO4)2:4H2O
Brucite	-7.77	-18.71	-10.94	Mg(OH)2
Burkeite	-23.47	-24.24	-0.77	Na6CO3(SO4)2
Calcite	-0.81	-9.26	-8.45	CaCO3
Carnallite	-14.83	-10.43	4.40	KMgCl3:6H2O
CO2(g)	-1.68	-3.09	-1.41	CO2
Dolomite	-2.53	-19.49	-16.97	CaMg(CO3)2
Epsomite	-6.32	-8.21	-1.89	MgSO4:7H2O
Gaylussite	-9.28	-18.70	-9.42	CaNa2(CO3)2:5H2O
Glaserite	-13.80	-17.67	-3.88	NaK3(SO4)2
Glauberite	-9.34	-14.65	-5.31	Na2Ca(SO4)2

Goergeyite	-15.86	-45.52	-29.66	K2Ca5(SO4)6H2O
Gypsum	-2.64	-7.24	-4.60	CaSO4:2H2O
H2O(g)	-1.63	-0.00	1.63	H2O
Halite	-4.46	-2.89	1.57	NaCl
Hexahydrite	-6.65	-8.21	-1.55	MgSO4:6H2O
Huntite	-9.20	1.60	10.80	CaMg3(CO3)4
Kainite	-11.86	-12.05	-0.19	KMgClSO4:3H2O
Kaliciphite	-5.65	-15.59	-9.94	KHCO3
Kieserite	-8.02	-8.21	-0.18	MgSO4:H2O
Labile_S	-16.38	-22.05	-5.67	Na4Ca(SO4)3:2H2O
Leonhardite	-7.32	-8.21	-0.89	MgSO4:4H2O
Leonite	-13.54	-17.52	-3.98	K2Mg(SO4)2:4H2O
Magnesite	-2.41	-10.23	-7.82	MgCO3
MgCl2_2H2O	-21.56	-6.58	14.98	MgCl2:2H2O
MgCl2_4H2O	-13.66	-6.58	7.08	MgCl2:4H2O
Mirabilite	-5.95	-7.41	-1.46	Na2SO4:10H2O
Misenite	-79.92	-90.73	-10.81	K8H6(SO4)7
Nahcolite	-3.90	-14.64	-10.74	NaHCO3
Natron	-8.61	-9.44	-0.82	Na2CO3:10H2O
Nesquehonite	-5.06	-10.23	-5.17	MgCO3:3H2O
Pentahydrite	-6.92	-8.21	-1.28	MgSO4:5H2O
Pirssonite	-9.46	-18.70	-9.23	Na2Ca(CO3)2:2H2O
Polyhalite	-18.26	-32.00	-13.74	K2MgCa2(SO4)4:2H2O
Portlandite	-12.56	-17.75	-5.19	Ca(OH)2
Schoenite	-13.19	-17.52	-4.33	K2Mg(SO4)2:6H2O
Sylvite	-4.69	-3.84	0.84	KCl
Syngenite	-10.22	-16.55	-6.33	K2Ca(SO4)2:H2O
Thenardite	-7.13	-7.41	-0.28	Na2SO4
Trona	-12.69	-24.07	-11.38	Na3H(CO3)2:2H2O

**For a gas, SI = log10(fugacity). Fugacity = pressure * phi / 1 atm.
For ideal gases, phi = 1.

Beginning of batch-reaction calculations.

Reaction step 1.

Using solution 1.

Using pure phase assemblage 1.

-----Phase assemblage-----

Phase	SI	log IAP	log K(T, P)	Moles in assemblage		
				Initial	Final	Delta
Barite	0.00	-9.89	-9.89	1.800e-04	1.725e-04	-7.493e-06

-----Solution composition-----

Elements	Molality	Moles
Ba	7.493e-06	7.493e-06
C	2.703e-03	2.703e-03
Ca	3.468e-03	3.468e-03
Cl	4.923e-02	4.923e-02
K	4.425e-03	4.425e-03
Mg	3.703e-04	3.703e-04
Na	3.923e-02	3.923e-02
S	1.105e-04	1.105e-04

-----Description of solution-----

	pH = 6.700	Charge balance
	pe = -2.440	Adjusted to redox equilibrium
Specific Conductance (µS/cm, 20°C)	= 5120	

```

Density (g/cm3) = 1.00045
Volume (L) = 1.00268
Activity of water = 0.998
Ionic strength (mol/kgw) = 5.531e-02
Mass of water (kg) = 1.000e+00
Total alkalinity (eq/kg) = 1.898e-03
Total CO2 (mol/kg) = 2.703e-03
Temperature (°C) = 20.00
Electrical balance (eq) = -2.122e-12
Percent error, 100*(Cat-|An|)/(Cat+|An|) = -0.00
Iterations = 11
Gamma iterations = 3
Osmotic coefficient = 0.93621
Density of water = 0.99820
Total H = 1.110143e+02
Total O = 5.551396e+01

```

-----Distribution of species-----

Species	Molality	MacInnes Activity	Log Molality	MacInnes Log Activity	MacInnes Log Gamma	mole V cm ³ /mol
H+	2.402e-07	1.995e-07	-6.619	-6.700	-0.081	0.00
OH-	4.334e-08	3.425e-08	-7.363	-7.465	-0.102	-4.09
H2O	5.551e+01	9.983e-01	1.744	-0.001	0.000	18.05
Ba	7.493e-06					
Ba+2	7.493e-06	3.174e-06	-5.125	-5.498	-0.373	-12.50
C(4)	2.703e-03					
HCO3-	1.897e-03	1.727e-03	-2.722	-2.763	-0.041	24.62
CO2	8.053e-04	8.118e-04	-3.094	-3.091	0.003	34.19
CO3-2	8.938e-07	3.558e-07	-6.049	-6.449	-0.400	-3.56
MgCO3	4.664e-08	4.664e-08	-7.331	-7.331	0.000	-17.08
Ca	3.468e-03					
Ca+2	3.468e-03	1.530e-03	-2.460	-2.815	-0.355	-17.68
Cl	4.923e-02					
Cl-	4.923e-02	3.985e-02	-1.308	-1.400	-0.092	18.09
K	4.425e-03					
K+	4.425e-03	3.592e-03	-2.354	-2.445	-0.091	9.00
Mg	3.703e-04					
Mg+2	3.702e-04	1.661e-04	-3.432	-3.780	-0.348	-21.13
MgCO3	4.664e-08	4.664e-08	-7.331	-7.331	0.000	-17.08
MgOH+	9.310e-10	8.276e-10	-9.031	-9.082	-0.051	(0)
Na	3.923e-02					
Na+	3.923e-02	3.231e-02	-1.406	-1.491	-0.084	-1.47
S(6)	1.105e-04					
SO4-2	1.105e-04	4.033e-05	-3.956	-4.394	-0.438	14.75
HSO4-	8.174e-10	6.680e-10	-9.088	-9.175	-0.088	40.09

-----Saturation indices-----

Phase	SI**	log IAP	log K(293 K, 1 atm)	
Anhydrite	-3.02	-7.21	-4.19	CaSO4
Aragonite	-1.07	-9.26	-8.19	CaCO3
Arcanite	-7.34	-9.28	-1.95	K2SO4
Artinite	-10.27	9.77	20.05	Mg2CO3(OH)2:3H2O
Barite	0.00	-9.89	-9.89	BaSO4
Bischofite	-11.24	-6.58	4.65	MgCl2:6H2O
Bloedite	-13.21	-15.55	-2.35	Na2Mg(SO4)2:4H2O
Brucite	-7.77	-18.71	-10.94	Mg(OH)2
Burkeite	-23.41	-24.18	-0.77	Na6CO3(SO4)2
Calcite	-0.81	-9.26	-8.45	CaCO3
Carnallite	-14.83	-10.43	4.40	KMgCl3:6H2O
CO2(g)	-1.68	-3.09	-1.41	CO2
Dolomite	-2.53	-19.49	-16.97	CaMg(CO3)2
Epsomite	-6.29	-8.18	-1.89	MgSO4:7H2O

Gaylussite	-9.28	-18.70	-9.42	CaNa ₂ (CO ₃) ₂ :5H ₂ O
Glaserite	-13.74	-17.61	-3.88	NaK ₃ (SO ₄) ₂
Glauberite	-9.28	-14.59	-5.31	Na ₂ Ca(SO ₄) ₂
Goergeyite	-15.68	-45.33	-29.66	K ₂ Ca ₅ (SO ₄) ₆ H ₂ O
Gypsum	-2.61	-7.21	-4.60	CaSO ₄ :2H ₂ O
H ₂ O(g)	-1.63	-0.00	1.63	H ₂ O
Halite	-4.46	-2.89	1.57	NaCl
Hexahydrate	-6.62	-8.18	-1.55	MgSO ₄ :6H ₂ O
Huntite	-9.20	1.59	10.80	CaMg ₃ (CO ₃) ₄
Kainite	-11.83	-12.02	-0.19	KMgClSO ₄ :3H ₂ O
Kalicinite	-5.65	-15.59	-9.94	KHCO ₃
Kieserite	-7.99	-8.17	-0.18	MgSO ₄ :H ₂ O
Labile_S	-16.29	-21.96	-5.67	Na ₄ Ca(SO ₄) ₃ :2H ₂ O
Leonhardite	-7.29	-8.18	-0.89	MgSO ₄ :4H ₂ O
Leonite	-13.48	-17.46	-3.98	K ₂ Mg(SO ₄) ₂ :4H ₂ O
Magnesite	-2.41	-10.23	-7.82	MgCO ₃
MgCl ₂ _2H ₂ O	-21.56	-6.58	14.98	MgCl ₂ :2H ₂ O
MgCl ₂ _4H ₂ O	-13.66	-6.58	7.08	MgCl ₂ :4H ₂ O
Mirabilite	-5.92	-7.38	-1.46	Na ₂ SO ₄ :10H ₂ O
Misenite	-79.71	-90.52	-10.81	K ₈ H ₆ (SO ₄) ₇
Nahcolite	-3.90	-14.64	-10.74	NaHCO ₃
Natron	-8.61	-9.44	-0.82	Na ₂ CO ₃ :10H ₂ O
Nesquehonite	-5.06	-10.23	-5.17	MgCO ₃ :3H ₂ O
Pentahydrate	-6.89	-8.18	-1.28	MgSO ₄ :5H ₂ O
Pirssonite	-9.46	-18.70	-9.23	Na ₂ Ca(CO ₃) ₂ :2H ₂ O
Polyhalite	-18.13	-31.88	-13.74	K ₂ MgCa ₂ (SO ₄) ₄ :2H ₂ O
Portlandite	-12.56	-17.75	-5.19	Ca(OH) ₂
Schoenite	-13.13	-17.46	-4.33	K ₂ Mg(SO ₄) ₂ :6H ₂ O
Sylvite	-4.69	-3.84	0.84	KCl
Syngenite	-10.16	-16.49	-6.33	K ₂ Ca(SO ₄) ₂ :H ₂ O
Thenardite	-7.10	-7.38	-0.28	Na ₂ SO ₄
Trona	-12.69	-24.07	-11.38	Na ₃ H(CO ₃) ₂ :2H ₂ O

**For a gas, SI = log₁₀(fugacity). Fugacity = pressure * phi / 1 atm.
For ideal gases, phi = 1.

End of simulation.

Reading input data for simulation 2.

End of Run after 1.242 Seconds.

APMW-2

SOLUTION 1 #APMW-2

temp	20	
pH	6	
pe	-0.86	
redox	pe	
units	mmol/kgw	
density	1	
Alkalinity	376 mg/kgw	
Ba	0 mg/kgw	
Ca	343 mg/kgw	
Cl	2720 mg/kgw	charge
K	33 mg/kgw	
Mg	284 mg/kgw	
Na	977 mg/kgw	
S(6)	4.5 mg/kgw	
-water	1 # kg	

EQUILIBRIUM_PHASES 1

Barite	0	0.00018
--------	---	---------

Input file: \\aro-01\prj1\$\Mississippi Power\Plant Watson\05_Deliverables\09_ASD\01_ASD
 \05_Geochemical Modeling\Barite Simulations\APMW2.pqi
 Output file: \\aro-01\prj1\$\Mississippi Power\Plant Watson\05_Deliverables\09_ASD\01_ASD
 \05_Geochemical Modeling\Barite Simulations\APMW2.pqi
 Database file: C:\Program Files (x86)\USGS\Phreeqc Interactive 3.4.0-12927\database
 \pitzer.dat

 Reading data base.

SOLUTION_MASTER_SPECIES
 SOLUTION_SPECIES
 PHASES
 PITZER
 EXCHANGE_MASTER_SPECIES
 EXCHANGE_SPECIES
 SURFACE_MASTER_SPECIES
 SURFACE_SPECIES
 END

 Reading input data for simulation 1.

DATABASE C:\Program Files (x86)\USGS\Phreeqc Interactive 3.4.0-12927\database
 \pitzer.dat

SOLUTION 1 #APMW-2
 temp 20
 pH 6
 pe -0.86
 redox pe
 units mmol/kgw
 density 1
 Alkalinity 376 mg/kgw
 Ba 0 mg/kgw
 Ca 343 mg/kgw
 Cl 2720 mg/kgw charge
 K 33 mg/kgw
 Mg 284 mg/kgw
 Na 977 mg/kgw
 S(6) 4.5 mg/kgw
 water 1 # kg
 EQUILIBRIUM_PHASES 1
 Barite 0 0.00018

 Beginning of initial solution calculations.

Initial solution 1.

-----Solution composition-----

Elements	Molality	Moles	
Alkalinity	7.513e-03	7.513e-03	
Ca	8.558e-03	8.558e-03	
Cl	7.622e-02	7.622e-02	Charge balance
K	8.440e-04	8.440e-04	
Mg	1.168e-02	1.168e-02	
Na	4.250e-02	4.250e-02	
S(6)	4.684e-05	4.684e-05	

-----Description of solution-----

pH = 6.000
 pe = -0.860
 Specific Conductance ($\mu\text{S}/\text{cm}$, 20°C) = 7729

Density (g/cm³) = 1.00201
 Volume (L) = 1.00342
 Activity of water = 0.997
 Ionic strength (mol/kgw) = 1.041e-01
 Mass of water (kg) = 1.000e+00
 Total carbon (mol/kg) = 2.187e-02
 Total CO2 (mol/kg) = 2.187e-02
 Temperature (°C) = 20.00
 Electrical balance (eq) = -1.935e-13
 Percent error, 100*(Cat-|An|)/(Cat+|An|) = -0.00
 Iterations = 11
 Gamma iterations = 3
 Osmotic coefficient = 0.91753
 Density of water = 0.99820
 Total H = 1.110199e+02
 Total O = 5.555765e+01

-----Distribution of species-----

Species	Molality	MacInnes Activity	Log Molality	MacInnes Log Activity	MacInnes Log Gamma	mole V cm ³ /mol
H+	1.250e-06	1.000e-06	-5.903	-6.000	-0.097	0.00
OH-	9.657e-09	6.827e-09	-8.015	-8.166	-0.151	-3.95
H2O	5.551e+01	9.973e-01	1.744	-0.001	0.000	18.05
C(4)	2.187e-02					
CO2	1.435e-02	1.455e-02	-1.843	-1.837	0.006	34.19
HCO3-	7.511e-03	6.170e-03	-2.124	-2.210	-0.085	24.78
CO3-2	9.225e-07	2.537e-07	-6.035	-6.596	-0.561	-3.21
MgCO3	9.031e-07	9.031e-07	-6.044	-6.044	0.000	-17.08
Ca	8.558e-03					
Ca+2	8.558e-03	3.301e-03	-2.068	-2.481	-0.414	-17.52
Cl	7.622e-02					
Cl-	7.622e-02	5.836e-02	-1.118	-1.234	-0.116	18.17
K	8.440e-04					
K+	8.440e-04	6.532e-04	-3.074	-3.185	-0.111	9.07
Mg	1.168e-02					
Mg+2	1.168e-02	4.510e-03	-1.932	-2.346	-0.413	-20.97
MgCO3	9.031e-07	9.031e-07	-6.044	-6.044	0.000	-17.08
MgOH+	5.133e-09	4.480e-09	-8.290	-8.349	-0.059	(0)
Na	4.250e-02					
Na+	4.250e-02	3.382e-02	-1.372	-1.471	-0.099	-1.36
S(6)	4.684e-05					
SO4-2	4.684e-05	1.150e-05	-4.329	-4.939	-0.610	15.21
HSO4-	1.223e-09	9.543e-10	-8.912	-9.020	-0.108	40.16

-----Saturation indices-----

Phase	SI**	log IAP	log K(293 K, 1 atm)	
Anhydrite	-3.23	-7.42	-4.19	CaSO4
Aragonite	-0.89	-9.08	-8.19	CaCO3
Arcanite	-9.36	-11.31	-1.95	K2SO4
Artinite	-8.96	11.09	20.05	Mg2CO3(OH)2:3H2O
Bischofite	-9.48	-4.82	4.65	MgCl2:6H2O
Bloedite	-12.82	-15.17	-2.35	Na2Mg(SO4)2:4H2O
Brucite	-7.74	-18.68	-10.94	Mg(OH)2
Burkeite	-24.53	-25.30	-0.77	Na6CO3(SO4)2
Calcite	-0.63	-9.08	-8.45	CaCO3
Carnallite	-13.64	-9.24	4.40	KMgCl3:6H2O
CO2(g)	-0.43	-1.84	-1.41	CO2
Dolomite	-1.05	-18.02	-16.97	CaMg(CO3)2
Epsomite	-5.41	-7.29	-1.89	MgSO4:7H2O
Gaylussite	-9.20	-18.62	-9.42	CaNa2(CO3)2:5H2O
Glaserite	-17.03	-20.90	-3.88	NaK3(SO4)2
Glauberite	-9.99	-15.30	-5.31	Na2Ca(SO4)2

Goergeyite	-18.76	-48.41	-29.66	K2Ca5(SO4)6H2O
Gypsum	-2.83	-7.42	-4.60	CaSO4:2H2O
H2O(g)	-1.63	-0.00	1.63	H2O
Halite	-4.27	-2.70	1.57	NaCl
Hexahydrite	-5.74	-7.29	-1.55	MgSO4:6H2O
Huntite	-5.15	5.64	10.80	CaMg3(CO3)4
Kainite	-11.51	-11.71	-0.19	KMgClSO4:3H2O
Kalicinite	-5.84	-15.78	-9.94	KHCO3
Kieserite	-7.10	-7.29	-0.18	MgSO4:H2O
Labile_S	-17.51	-23.19	-5.67	Na4Ca(SO4)3:2H2O
Leonhardite	-6.40	-7.29	-0.89	MgSO4:4H2O
Leonite	-14.62	-18.60	-3.98	K2Mg(SO4)2:4H2O
Magnesite	-1.13	-8.94	-7.82	MgCO3
MgCl2_2H2O	-19.80	-4.82	14.98	MgCl2:2H2O
MgCl2_4H2O	-11.90	-4.82	7.08	MgCl2:4H2O
Mirabilite	-6.43	-7.89	-1.46	Na2SO4:10H2O
Misenite	-85.25	-96.06	-10.81	K8H6(SO4)7
Nahcolite	-3.32	-14.07	-10.74	NaHCO3
Natron	-8.72	-9.55	-0.82	Na2CO3:10H2O
Nesquehonite	-3.78	-8.94	-5.17	MgCO3:3H2O
Pentahydrite	-6.01	-7.29	-1.28	MgSO4:5H2O
Pirssonite	-9.38	-18.62	-9.23	Na2Ca(CO3)2:2H2O
Polyhalite	-19.69	-33.44	-13.74	K2MgCa2(SO4)4:2H2O
Portlandite	-13.62	-18.81	-5.19	Ca(OH)2
Schoenite	-14.27	-18.60	-4.33	K2Mg(SO4)2:6H2O
Sylvite	-5.26	-4.42	0.84	KCl
Syngenite	-12.40	-18.73	-6.33	K2Ca(SO4)2:H2O
Thenardite	-7.60	-7.88	-0.28	Na2SO4
Trona	-12.22	-23.61	-11.38	Na3H(CO3)2:2H2O

**For a gas, SI = log10(fugacity). Fugacity = pressure * phi / 1 atm.
For ideal gases, phi = 1.

Beginning of batch-reaction calculations.

Reaction step 1.

Using solution 1.

Using pure phase assemblage 1.

-----Phase assemblage-----

Phase	SI	log IAP	log K(T, P)	Moles in assemblage		
				Initial	Final	Delta
Barite	0.00	-9.89	-9.89	1.800e-04	1.584e-04	-2.159e-05

-----Solution composition-----

Elements	Molality	Moles
Ba	2.159e-05	2.159e-05
C	2.187e-02	2.187e-02
Ca	8.558e-03	8.558e-03
Cl	7.622e-02	7.622e-02
K	8.440e-04	8.440e-04
Mg	1.168e-02	1.168e-02
Na	4.250e-02	4.250e-02
S	6.844e-05	6.844e-05

-----Description of solution-----

	pH = 6.000	Charge balance
	pe = -0.860	Adjusted to redox equilibrium
Specific Conductance (µS/cm, 20°C)	= 7732	


```

Density (g/cm3) = 1.00201
Volume (L) = 1.00342
Activity of water = 0.997
Ionic strength (mol/kgw) = 1.042e-01
Mass of water (kg) = 1.000e+00
Total alkalinity (eq/kg) = 7.513e-03
Total CO2 (mol/kg) = 2.187e-02
Temperature (°C) = 20.00
Electrical balance (eq) = -1.352e-13
Percent error, 100*(Cat-|An|)/(Cat+|An|) = -0.00
Iterations = 12
Gamma iterations = 3
Osmotic coefficient = 0.91744
Density of water = 0.99820
Total H = 1.110199e+02
Total O = 5.555774e+01

```

-----Distribution of species-----

Species	Molality	MacInnes Activity	Log Molality	MacInnes Log Activity	MacInnes Log Gamma	mole V cm ³ /mol
H+	1.251e-06	1.000e-06	-5.903	-6.000	-0.097	0.00
OH-	9.656e-09	6.826e-09	-8.015	-8.166	-0.151	-3.95
H2O	5.551e+01	9.973e-01	1.744	-0.001	0.000	18.05
Ba	2.159e-05					
Ba+2	2.159e-05	7.623e-06	-4.666	-5.118	-0.452	-12.31
C(4)	2.187e-02					
CO2	1.435e-02	1.455e-02	-1.843	-1.837	0.006	34.19
HCO3-	7.511e-03	6.169e-03	-2.124	-2.210	-0.085	24.78
CO3-2	9.224e-07	2.536e-07	-6.035	-6.596	-0.561	-3.21
MgCO3	9.025e-07	9.025e-07	-6.045	-6.045	0.000	-17.08
Ca	8.558e-03					
Ca+2	8.558e-03	3.299e-03	-2.068	-2.482	-0.414	-17.52
Cl	7.622e-02					
Cl-	7.622e-02	5.836e-02	-1.118	-1.234	-0.116	18.17
K	8.440e-04					
K+	8.440e-04	6.532e-04	-3.074	-3.185	-0.111	9.07
Mg	1.168e-02					
Mg+2	1.168e-02	4.509e-03	-1.932	-2.346	-0.414	-20.97
MgCO3	9.025e-07	9.025e-07	-6.045	-6.045	0.000	-17.08
MgOH+	5.131e-09	4.478e-09	-8.290	-8.349	-0.059	(0)
Na	4.250e-02					
Na+	4.250e-02	3.382e-02	-1.372	-1.471	-0.099	-1.36
S(6)	6.844e-05					
SO4-2	6.844e-05	1.679e-05	-4.165	-4.775	-0.610	15.21
HSO4-	1.787e-09	1.394e-09	-8.748	-8.856	-0.108	40.16

-----Saturation indices-----

Phase	SI**	log IAP	log K(293 K, 1 atm)	
Anhydrite	-3.07	-7.26	-4.19	CaSO4
Aragonite	-0.89	-9.08	-8.19	CaCO3
Arcanite	-9.20	-11.14	-1.95	K2SO4
Artinite	-8.96	11.09	20.05	Mg2CO3(OH)2:3H2O
Barite	0.00	-9.89	-9.89	BaSO4
Bischofite	-9.48	-4.82	4.65	MgCl2:6H2O
Bloedite	-12.50	-14.84	-2.35	Na2Mg(SO4)2:4H2O
Brucite	-7.74	-18.68	-10.94	Mg(OH)2
Burkeite	-24.20	-24.97	-0.77	Na6CO3(SO4)2
Calcite	-0.63	-9.08	-8.45	CaCO3
Carnallite	-13.64	-9.24	4.40	KMgCl3:6H2O
CO2(g)	-0.43	-1.84	-1.41	CO2
Dolomite	-1.05	-18.02	-16.97	CaMg(CO3)2
Epsomite	-5.24	-7.13	-1.89	MgSO4:7H2O

Gaylussite	-9.20	-18.62	-9.42	CaNa ₂ (CO ₃) ₂ ·5H ₂ O
Glaserite	-16.70	-20.58	-3.88	NaK ₃ (SO ₄) ₂
Glauberite	-9.66	-14.97	-5.31	Na ₂ Ca(SO ₄) ₂
Goergeyite	-17.77	-47.43	-29.66	K ₂ Ca ₅ (SO ₄) ₆ H ₂ O
Gypsum	-2.66	-7.26	-4.60	CaSO ₄ ·2H ₂ O
H ₂ O(g)	-1.63	-0.00	1.63	H ₂ O
Halite	-4.27	-2.70	1.57	NaCl
Hexahydrate	-5.57	-7.13	-1.55	MgSO ₄ ·6H ₂ O
Huntite	-5.16	5.64	10.80	CaMg ₃ (CO ₃) ₄
Kainite	-11.35	-11.54	-0.19	KMgClSO ₄ ·3H ₂ O
Kalicinite	-5.84	-15.78	-9.94	KHCO ₃
Kieserite	-6.94	-7.12	-0.18	MgSO ₄ ·H ₂ O
Labile_S	-17.02	-22.69	-5.67	Na ₄ Ca(SO ₄) ₃ ·2H ₂ O
Leonhardite	-6.24	-7.13	-0.89	MgSO ₄ ·4H ₂ O
Leonite	-14.29	-18.27	-3.98	K ₂ Mg(SO ₄) ₂ ·4H ₂ O
Magnesite	-1.13	-8.94	-7.82	MgCO ₃
MgCl ₂ ·2H ₂ O	-19.80	-4.82	14.98	MgCl ₂ ·2H ₂ O
MgCl ₂ ·4H ₂ O	-11.90	-4.82	7.08	MgCl ₂ ·4H ₂ O
Mirabilite	-6.26	-7.73	-1.46	Na ₂ SO ₄ ·10H ₂ O
Misenite	-84.10	-94.90	-10.81	K ₈ H ₆ (SO ₄) ₇
Nahcolite	-3.32	-14.07	-10.74	NaHCO ₃
Natron	-8.72	-9.55	-0.82	Na ₂ CO ₃ ·10H ₂ O
Nesquehonite	-3.78	-8.95	-5.17	MgCO ₃ ·3H ₂ O
Pentahydrate	-5.84	-7.13	-1.28	MgSO ₄ ·5H ₂ O
Pirssonite	-9.38	-18.62	-9.23	Na ₂ Ca(CO ₃) ₂ ·2H ₂ O
Polyhalite	-19.04	-32.78	-13.74	K ₂ MgCa ₂ (SO ₄) ₄ ·2H ₂ O
Portlandite	-13.62	-18.81	-5.19	Ca(OH) ₂
Schoenite	-13.94	-18.27	-4.33	K ₂ Mg(SO ₄) ₂ ·6H ₂ O
Sylvite	-5.26	-4.42	0.84	KCl
Syngenite	-12.07	-18.40	-6.33	K ₂ Ca(SO ₄) ₂ ·H ₂ O
Thenardite	-7.44	-7.72	-0.28	Na ₂ SO ₄
Trona	-12.22	-23.61	-11.38	Na ₃ H(CO ₃) ₂ ·2H ₂ O

**For a gas, SI = log₁₀(fugacity). Fugacity = pressure * phi / 1 atm.
 For ideal gases, phi = 1.

 End of simulation.

 Reading input data for simulation 2.

 End of Run after 1.213 Seconds.

APMW-3

SOLUTION 1 #APMW-3

temp	20	
pH	6.6	
pe	-1	
redox	pe	
units	mmol/kgw	
density	1	
Alkalinity	441 mg/kgw	
Ba	0 mg/kgw	
Ca	321 mg/kgw	
Cl	10650 mg/kgw	charge
K	173 mg/kgw	
Mg	586 mg/kgw	
Na	5986 mg/kgw	
S(6)	1140 mg/kgw	
-water	1 # kg	

EQUILIBRIUM_PHASES 1

Barite	0 0.00018
--------	-----------

Input file: \\aro-01\prj1\$\Mississippi Power\Plant Watson\05_Deliverables\09_ASD\01_ASD
 \05_Geochemical Modeling\Barite Simulations\APMW3.pqi
 Output file: \\aro-01\prj1\$\Mississippi Power\Plant Watson\05_Deliverables\09_ASD\01_ASD
 \05_Geochemical Modeling\Barite Simulations\APMW3.pqi
 Database file: C:\Program Files (x86)\USGS\Phreeqc Interactive 3.4.0-12927\database
 \pitzer.dat

 Reading data base.

SOLUTION_MASTER_SPECIES
 SOLUTION_SPECIES
 PHASES
 PITZER
 EXCHANGE_MASTER_SPECIES
 EXCHANGE_SPECIES
 SURFACE_MASTER_SPECIES
 SURFACE_SPECIES
 END

 Reading input data for simulation 1.

DATABASE C:\Program Files (x86)\USGS\Phreeqc Interactive 3.4.0-12927\database
 \pitzer.dat

SOLUTION 1 #APMW-3
 temp 20
 pH 6.6
 pe -1
 redox pe
 units mmol/kgw
 density 1
 Alkalinity 441 mg/kgw
 Ba 0 mg/kgw
 Ca 321 mg/kgw
 Cl 10650 mg/kgw charge
 K 173 mg/kgw
 Mg 586 mg/kgw
 Na 5986 mg/kgw
 S(6) 1140 mg/kgw
 water 1 # kg
 EQUILIBRIUM_PHASES 1
 Barite 0 0.00018

 Beginning of initial solution calculations.

Initial solution 1.

-----Solution composition-----

Elements	Molality	Moles	
Alkalinity	8.812e-03	8.812e-03	
Ca	8.009e-03	8.009e-03	
Cl	2.965e-01	2.965e-01	Charge balance
K	4.425e-03	4.425e-03	
Mg	2.411e-02	2.411e-02	
Na	2.604e-01	2.604e-01	
S(6)	1.187e-02	1.187e-02	

-----Description of solution-----

pH = 6.600
 pe = -1.000
 Specific Conductance ($\mu\text{S}/\text{cm}$, 20°C) = 27517

Density (g/cm³) = 1.01237
 Volume (L) = 1.00695
 Activity of water = 0.990
 Ionic strength (mol/kgw) = 3.730e-01
 Mass of water (kg) = 1.000e+00
 Total carbon (mol/kg) = 1.232e-02
 Total CO2 (mol/kg) = 1.232e-02
 Temperature (°C) = 20.00
 Electrical balance (eq) = -3.167e-13
 Percent error, 100*(Cat-|An|)/(Cat+|An|) = -0.00
 Iterations = 10
 Gamma iterations = 3
 Osmotic coefficient = 0.90200
 Density of water = 0.99820
 Total H = 1.110212e+02
 Total O = 5.558712e+01

-----Distribution of species-----

Species	Molality	MacInnes Activity	Log Molality	MacInnes Log Activity	MacInnes Log Gamma	mole V cm ³ /mol
H+	3.220e-07	2.512e-07	-6.492	-6.600	-0.108	0.00
OH-	4.476e-08	2.698e-08	-7.349	-7.569	-0.220	-3.40
H2O	5.551e+01	9.900e-01	1.744	-0.004	0.000	18.05
C(4)	1.232e-02					
HCO3-	8.787e-03	6.226e-03	-2.056	-2.206	-0.150	25.52
CO2	3.516e-03	3.716e-03	-2.454	-2.430	0.024	34.19
CO3-2	7.157e-06	1.019e-06	-5.145	-5.992	-0.846	-1.98
MgCO3	5.278e-06	5.278e-06	-5.278	-5.278	0.000	-17.08
Ca	8.009e-03					
Ca+2	8.009e-03	2.076e-03	-2.096	-2.683	-0.586	-17.09
Cl	2.965e-01					
Cl-	2.965e-01	1.988e-01	-0.528	-0.702	-0.174	18.42
K	4.425e-03					
K+	4.425e-03	3.049e-03	-2.354	-2.516	-0.162	9.30
Mg	2.411e-02					
Mg+2	2.410e-02	6.562e-03	-1.618	-2.183	-0.565	-20.55
MgCO3	5.278e-06	5.278e-06	-5.278	-5.278	0.000	-17.08
MgOH+	2.749e-08	2.576e-08	-7.561	-7.589	-0.028	(0)
Na	2.604e-01					
Na+	2.604e-01	1.886e-01	-0.584	-0.725	-0.140	-1.00
S(6)	1.187e-02					
SO4-2	1.187e-02	1.615e-03	-1.926	-2.792	-0.866	16.70
HSO4-	4.898e-08	3.366e-08	-7.310	-7.473	-0.163	40.40

-----Saturation indices-----

Phase	SI**	log IAP	log K(293 K, 1 atm)	
Anhydrite	-1.29	-5.47	-4.19	CaSO4
Aragonite	-0.49	-8.67	-8.19	CaCO3
Arcanite	-5.88	-7.82	-1.95	K2SO4
Artinite	-6.84	13.21	20.05	Mg2CO3(OH)2:3H2O
Bischofite	-8.27	-3.61	4.65	MgCl2:6H2O
Bloedite	-6.89	-9.23	-2.35	Na2Mg(SO4)2:4H2O
Brucite	-6.38	-17.32	-10.94	Mg(OH)2
Burkeite	-15.15	-15.92	-0.77	Na6CO3(SO4)2
Calcite	-0.22	-8.67	-8.45	CaCO3
Carnallite	-11.23	-6.83	4.40	KMgCl3:6H2O
CO2(g)	-1.02	-2.43	-1.41	CO2
Dolomite	0.12	-16.85	-16.97	CaMg(CO3)2
Epsomite	-3.12	-5.01	-1.89	MgSO4:7H2O
Gaylussite	-6.72	-16.14	-9.42	CaNa2(CO3)2:5H2O
Glaserite	-9.98	-13.86	-3.88	NaK3(SO4)2
Glauberite	-4.41	-9.72	-5.31	Na2Ca(SO4)2

Goergeyite	-5.54	-35.20	-29.66	K2Ca5(SO4)6H2O
Gypsum	-0.89	-5.48	-4.60	CaSO4:2H2O
H2O(g)	-1.64	-0.00	1.63	H2O
Halite	-3.00	-1.43	1.57	NaCl
Hexahydrite	-3.45	-5.00	-1.55	MgSO4:6H2O
Huntite	-2.45	8.35	10.80	CaMg3(CO3)4
Kainite	-8.01	-8.21	-0.19	KMgClSO4:3H2O
Kalicinite	-5.17	-15.11	-9.94	KHCO3
Kieserite	-4.79	-4.98	-0.18	MgSO4:H2O
Labile_S	-8.29	-13.97	-5.67	Na4Ca(SO4)3:2H2O
Leonhardite	-4.11	-4.99	-0.89	MgSO4:4H2O
Leonite	-8.84	-12.82	-3.98	K2Mg(SO4)2:4H2O
Magnesite	-0.36	-8.17	-7.82	MgCO3
MgCl2_2H2O	-18.58	-3.60	14.98	MgCl2:2H2O
MgCl2_4H2O	-10.68	-3.60	7.08	MgCl2:4H2O
Mirabilite	-2.82	-4.28	-1.46	Na2SO4:10H2O
Misenite	-68.46	-79.27	-10.81	K8H6(SO4)7
Nahcolite	-2.57	-13.32	-10.74	NaHCO3
Natron	-6.66	-7.48	-0.82	Na2CO3:10H2O
Nesquehonite	-3.02	-8.19	-5.17	MgCO3:3H2O
Pentahydrite	-3.71	-5.00	-1.28	MgSO4:5H2O
Pirssonite	-6.89	-16.12	-9.23	Na2Ca(CO3)2:2H2O
Polyhalite	-10.01	-23.76	-13.74	K2MgCa2(SO4)4:2H2O
Portlandite	-12.63	-17.82	-5.19	Ca(OH)2
Schoenite	-8.50	-12.82	-4.33	K2Mg(SO4)2:6H2O
Sylvite	-4.06	-3.22	0.84	KCl
Syngenite	-6.97	-13.30	-6.33	K2Ca(SO4)2:H2O
Thenardite	-3.96	-4.24	-0.28	Na2SO4
Trona	-9.38	-20.77	-11.38	Na3H(CO3)2:2H2O

**For a gas, SI = log10(fugacity). Fugacity = pressure * phi / 1 atm.
For ideal gases, phi = 1.

Beginning of batch-reaction calculations.

Reaction step 1.

Using solution 1.

Using pure phase assemblage 1.

-----Phase assemblage-----

Phase	SI	log IAP	log K(T, P)	Moles in assemblage		
				Initial	Final	Delta
Barite	0.00	-9.89	-9.89	1.800e-04	1.796e-04	-3.588e-07

-----Solution composition-----

Elements	Molality	Moles
Ba	3.588e-07	3.588e-07
C	1.232e-02	1.232e-02
Ca	8.009e-03	8.009e-03
Cl	2.965e-01	2.965e-01
K	4.425e-03	4.425e-03
Mg	2.411e-02	2.411e-02
Na	2.604e-01	2.604e-01
S	1.187e-02	1.187e-02

-----Description of solution-----

	pH = 6.600	Charge balance
	pe = -1.000	Adjusted to redox equilibrium
Specific Conductance (μS/cm, 20°C)	= 27517	

```

Density (g/cm3) = 1.01237
Volume (L) = 1.00695
Activity of water = 0.990
Ionic strength (mol/kgw) = 3.730e-01
Mass of water (kg) = 1.000e+00
Total alkalinity (eq/kg) = 8.812e-03
Total CO2 (mol/kg) = 1.232e-02
Temperature (°C) = 20.00
Electrical balance (eq) = 4.430e-12
Percent error, 100*(Cat-|An|)/(Cat+|An|) = 0.00
Iterations = 7
Gamma iterations = 3
Osmotic coefficient = 0.90200
Density of water = 0.99820
Total H = 1.110212e+02
Total O = 5.558712e+01

```

-----Distribution of species-----

Species	Molality	MacInnes Activity	Log Molality	MacInnes Log Activity	MacInnes Log Gamma	mole V cm ³ /mol
H+	3.220e-07	2.512e-07	-6.492	-6.600	-0.108	0.00
OH-	4.476e-08	2.698e-08	-7.349	-7.569	-0.220	-3.40
H2O	5.551e+01	9.900e-01	1.744	-0.004	0.000	18.05
Ba	3.588e-07					
Ba+2	3.588e-07	7.928e-08	-6.445	-7.101	-0.656	-11.74
C(4)	1.232e-02					
HCO3-	8.787e-03	6.226e-03	-2.056	-2.206	-0.150	25.52
CO2	3.516e-03	3.716e-03	-2.454	-2.430	0.024	34.19
CO3-2	7.157e-06	1.019e-06	-5.145	-5.992	-0.846	-1.98
MgCO3	5.278e-06	5.278e-06	-5.278	-5.278	0.000	-17.08
Ca	8.009e-03					
Ca+2	8.009e-03	2.076e-03	-2.096	-2.683	-0.586	-17.09
Cl	2.965e-01					
Cl-	2.965e-01	1.988e-01	-0.528	-0.702	-0.174	18.42
K	4.425e-03					
K+	4.425e-03	3.049e-03	-2.354	-2.516	-0.162	9.30
Mg	2.411e-02					
Mg+2	2.410e-02	6.562e-03	-1.618	-2.183	-0.565	-20.55
MgCO3	5.278e-06	5.278e-06	-5.278	-5.278	0.000	-17.08
MgOH+	2.749e-08	2.576e-08	-7.561	-7.589	-0.028	(0)
Na	2.604e-01					
Na+	2.604e-01	1.886e-01	-0.584	-0.725	-0.140	-1.00
S(6)	1.187e-02					
SO4-2	1.187e-02	1.615e-03	-1.926	-2.792	-0.866	16.70
HSO4-	4.898e-08	3.367e-08	-7.310	-7.473	-0.163	40.40

-----Saturation indices-----

Phase	SI**	log IAP	log K(293 K, 1 atm)	
Anhydrite	-1.29	-5.47	-4.19	CaSO4
Aragonite	-0.49	-8.67	-8.19	CaCO3
Arcanite	-5.88	-7.82	-1.95	K2SO4
Artinite	-6.84	13.21	20.05	Mg2CO3(OH)2:3H2O
Barite	0.00	-9.89	-9.89	BaSO4
Bischofite	-8.27	-3.61	4.65	MgCl2:6H2O
Bloedite	-6.89	-9.23	-2.35	Na2Mg(SO4)2:4H2O
Brucite	-6.38	-17.32	-10.94	Mg(OH)2
Burkeite	-15.15	-15.92	-0.77	Na6CO3(SO4)2
Calcite	-0.22	-8.67	-8.45	CaCO3
Carnallite	-11.23	-6.83	4.40	KMgCl3:6H2O
CO2(g)	-1.02	-2.43	-1.41	CO2
Dolomite	0.12	-16.85	-16.97	CaMg(CO3)2
Epsomite	-3.12	-5.01	-1.89	MgSO4:7H2O

Gaylussite	-6.72	-16.14	-9.42	CaNa ₂ (CO ₃) ₂ ·5H ₂ O
Glaserite	-9.98	-13.86	-3.88	NaK ₃ (SO ₄) ₂
Glauberite	-4.41	-9.72	-5.31	Na ₂ Ca(SO ₄) ₂
Goergeyite	-5.54	-35.20	-29.66	K ₂ Ca ₅ (SO ₄) ₆ H ₂ O
Gypsum	-0.89	-5.48	-4.60	CaSO ₄ ·2H ₂ O
H ₂ O(g)	-1.64	-0.00	1.63	H ₂ O
Halite	-3.00	-1.43	1.57	NaCl
Hexahydrate	-3.45	-5.00	-1.55	MgSO ₄ ·6H ₂ O
Huntite	-2.45	8.35	10.80	CaMg ₃ (CO ₃) ₄
Kainite	-8.01	-8.21	-0.19	KMgClSO ₄ ·3H ₂ O
Kalicinite	-5.17	-15.11	-9.94	KHCO ₃
Kieserite	-4.79	-4.98	-0.18	MgSO ₄ ·H ₂ O
Labile_S	-8.29	-13.97	-5.67	Na ₄ Ca(SO ₄) ₃ ·2H ₂ O
Leonhardite	-4.11	-4.99	-0.89	MgSO ₄ ·4H ₂ O
Leonite	-8.84	-12.82	-3.98	K ₂ Mg(SO ₄) ₂ ·4H ₂ O
Magnesite	-0.36	-8.17	-7.82	MgCO ₃
MgCl ₂ ·2H ₂ O	-18.58	-3.60	14.98	MgCl ₂ ·2H ₂ O
MgCl ₂ ·4H ₂ O	-10.68	-3.60	7.08	MgCl ₂ ·4H ₂ O
Mirabilite	-2.82	-4.28	-1.46	Na ₂ SO ₄ ·10H ₂ O
Misenite	-68.46	-79.27	-10.81	K ₈ H ₆ (SO ₄) ₇
Nahcolite	-2.57	-13.32	-10.74	NaHCO ₃
Natron	-6.66	-7.48	-0.82	Na ₂ CO ₃ ·10H ₂ O
Nesquehonite	-3.02	-8.19	-5.17	MgCO ₃ ·3H ₂ O
Pentahydrate	-3.71	-5.00	-1.28	MgSO ₄ ·5H ₂ O
Pirssonite	-6.89	-16.12	-9.23	Na ₂ Ca(CO ₃) ₂ ·2H ₂ O
Polyhalite	-10.01	-23.76	-13.74	K ₂ MgCa ₂ (SO ₄) ₄ ·2H ₂ O
Portlandite	-12.63	-17.82	-5.19	Ca(OH) ₂
Schoenite	-8.50	-12.82	-4.33	K ₂ Mg(SO ₄) ₂ ·6H ₂ O
Sylvite	-4.06	-3.22	0.84	KCl
Syngenite	-6.97	-13.30	-6.33	K ₂ Ca(SO ₄) ₂ ·H ₂ O
Thenardite	-3.96	-4.24	-0.28	Na ₂ SO ₄
Trona	-9.38	-20.77	-11.38	Na ₃ H(CO ₃) ₂ ·2H ₂ O

**For a gas, SI = log₁₀(fugacity). Fugacity = pressure * phi / 1 atm.
 For ideal gases, phi = 1.

 End of simulation.

 Reading input data for simulation 2.

 End of Run after 1.259 Seconds.

APMW-4

SOLUTION 1 #APMW-4

temp	20
pH	6.4
pe	-1
redox	pe
units	mmol/kgw
density	1
Alkalinity	550 mg/kgw
Ba	0 mg/kgw
Ca	193 mg/kgw
Cl	3960 mg/kgw
K	48 mg/kgw
Mg	65 mg/kgw
Na	1427 mg/kgw
S(6)	322 mg/kgw
-water	1 # kg

EQUILIBRIUM_PHASES 1

Barite	0	0.00018
--------	---	---------

Input file: \\aro-01\prj1\$\Mississippi Power\Plant Watson\05_Deliverables\09_ASD\01_ASD
\05_Geochemical Modeling\Barite Simulations\APMW4.pqi
Output file: \\aro-01\prj1\$\Mississippi Power\Plant Watson\05_Deliverables\09_ASD\01_ASD
\05_Geochemical Modeling\Barite Simulations\APMW4.pqi
Database file: C:\Program Files (x86)\USGS\Phreeqc Interactive 3.4.0-12927\database
\pitzer.dat

Reading data base.

SOLUTION_MASTER_SPECIES
SOLUTION_SPECIES
PHASES
PITZER
EXCHANGE_MASTER_SPECIES
EXCHANGE_SPECIES
SURFACE_MASTER_SPECIES
SURFACE_SPECIES
END

Reading input data for simulation 1.

DATABASE C:\Program Files (x86)\USGS\Phreeqc Interactive 3.4.0-12927\database
\pitzer.dat

SOLUTION 1 #APMW-4
temp 20
pH 6.4
pe -1
redox pe
units mmol/kgw
density 1
Alkalinity 550 mg/kgw
Ba 0 mg/kgw
Ca 193 mg/kgw
Cl 3960 mg/kgw
K 48 mg/kgw
Mg 65 mg/kgw
Na 1427 mg/kgw
S(6) 322 mg/kgw
water 1 # kg
EQUILIBRIUM_PHASES 1
Barite 0 0.00018

Beginning of initial solution calculations.

Initial solution 1.

-----Solution composition-----

Elements	Molality	Moles
Alkalinity	1.099e-02	1.099e-02
Ca	4.815e-03	4.815e-03
Cl	1.117e-01	1.117e-01
K	1.228e-03	1.228e-03
Mg	2.674e-03	2.674e-03
Na	6.207e-02	6.207e-02
S(6)	3.352e-03	3.352e-03

-----Description of solution-----

pH = 6.400
pe = -1.000
Specific Conductance ($\mu\text{S}/\text{cm}$, 20°C) = 10011

```

Density (g/cm3) = 1.00281
Volume (L) = 1.00423
Activity of water = 0.997
Ionic strength (mol/kgw) = 1.147e-01
Mass of water (kg) = 1.000e+00
Total carbon (mol/kg) = 1.950e-02
Total CO2 (mol/kg) = 1.950e-02
Temperature (°C) = 20.00
Electrical balance (eq) = -5.111e-02
Percent error, 100*(Cat-|An|)/(Cat+|An|) = -24.61
Iterations = 12
Gamma iterations = 3
Osmotic coefficient = 0.92203
Density of water = 0.99820
Total H = 1.110234e+02
Total O = 5.556960e+01

```

-----Distribution of species-----

Species	Molality	MacInnes Activity	Log Molality	MacInnes Log Activity	MacInnes Log Gamma	mole V cm ³ /mol
H+	5.029e-07	3.981e-07	-6.299	-6.400	-0.101	0.00
OH-	2.352e-08	1.714e-08	-7.629	-7.766	-0.137	-3.93
H2O	5.551e+01	9.966e-01	1.744	-0.001	0.000	18.05
C(4)	1.950e-02					
HCO3-	1.098e-02	9.173e-03	-1.959	-2.038	-0.078	24.81
CO2	8.510e-03	8.619e-03	-2.070	-2.065	0.006	34.19
CO3-2	3.386e-06	9.474e-07	-5.470	-6.023	-0.553	-3.15
MgCO3	7.452e-07	7.452e-07	-6.128	-6.128	0.000	-17.08
Ca	4.815e-03					
Ca+2	4.815e-03	1.761e-03	-2.317	-2.754	-0.437	-17.49
Cl	1.117e-01					
Cl-	1.117e-01	8.475e-02	-0.952	-1.072	-0.120	18.18
K	1.228e-03					
K+	1.228e-03	9.322e-04	-2.911	-3.031	-0.120	9.08
Mg	2.674e-03					
Mg+2	2.674e-03	9.967e-04	-2.573	-3.001	-0.429	-20.94
MgCO3	7.452e-07	7.452e-07	-6.128	-6.128	0.000	-17.08
MgOH+	2.761e-09	2.485e-09	-8.559	-8.605	-0.046	(0)
Na	6.207e-02					
Na+	6.207e-02	4.883e-02	-1.207	-1.311	-0.104	-1.34
S(6)	3.352e-03					
SO4-2	3.352e-03	8.775e-04	-2.475	-3.057	-0.582	15.29
HSO4-	3.779e-08	2.900e-08	-7.423	-7.538	-0.115	40.18

-----Saturation indices-----

Phase	SI**	log IAP	log K(293 K, 1 atm)	
Anhydrite	-1.62	-5.81	-4.19	CaSO4
Aragonite	-0.59	-8.78	-8.19	CaCO3
Arcanite	-7.17	-9.12	-1.95	K2SO4
Artinite	-8.90	11.15	20.05	Mg2CO3(OH)2:3H2O
Bischofite	-9.81	-5.15	4.65	MgCl2:6H2O
Bloedite	-9.40	-11.74	-2.35	Na2Mg(SO4)2:4H2O
Brucite	-7.59	-18.53	-10.94	Mg(OH)2
Burkeite	-19.23	-20.00	-0.77	Na6CO3(SO4)2
Calcite	-0.33	-8.78	-8.45	CaCO3
Carnallite	-13.66	-9.26	4.40	KMgCl3:6H2O
CO2(g)	-0.66	-2.06	-1.41	CO2
Dolomite	-0.84	-17.80	-16.97	CaMg(CO3)2
Epsomite	-4.18	-6.07	-1.89	MgSO4:7H2O
Gaylussite	-8.01	-17.43	-9.42	CaNa2(CO3)2:5H2O
Glaserite	-12.64	-16.52	-3.88	NaK3(SO4)2
Glauberite	-6.18	-11.49	-5.31	Na2Ca(SO4)2

Goergeyite	-8.52	-38.17	-29.66	K2Ca5(SO4)6H2O
Gypsum	-1.22	-5.81	-4.60	CaSO4:2H2O
H2O(g)	-1.64	-0.00	1.63	H2O
Halite	-3.95	-2.38	1.57	NaCl
Hexahydrite	-4.51	-6.07	-1.55	MgSO4:6H2O
Huntite	-5.11	5.69	10.80	CaMg3(CO3)4
Kainite	-9.97	-10.17	-0.19	KMgClSO4:3H2O
Kaliginite	-5.51	-15.45	-9.94	KHCO3
Kieserite	-5.87	-6.06	-0.18	MgSO4:H2O
Labile_S	-11.50	-17.17	-5.67	Na4Ca(SO4)3:2H2O
Leonhardite	-5.18	-6.06	-0.89	MgSO4:4H2O
Leonite	-11.20	-15.18	-3.98	K2Mg(SO4)2:4H2O
Magnesite	-1.21	-9.02	-7.82	MgCO3
MgCl2_2H2O	-20.13	-5.15	14.98	MgCl2:2H2O
MgCl2_4H2O	-12.23	-5.15	7.08	MgCl2:4H2O
Mirabilite	-4.23	-5.69	-1.46	Na2SO4:10H2O
Misenite	-73.24	-84.04	-10.81	K8H6(SO4)7
Nahcolite	-2.99	-13.73	-10.74	NaHCO3
Natron	-7.84	-8.66	-0.82	Na2CO3:10H2O
Nesquehonite	-3.86	-9.03	-5.17	MgCO3:3H2O
Pentahydrite	-4.78	-6.07	-1.28	MgSO4:5H2O
Pirssonite	-8.19	-17.43	-9.23	Na2Ca(CO3)2:2H2O
Polyhalite	-13.06	-26.80	-13.74	K2MgCa2(SO4)4:2H2O
Portlandite	-13.10	-18.29	-5.19	Ca(OH)2
Schoenite	-10.86	-15.18	-4.33	K2Mg(SO4)2:6H2O
Sylvite	-4.95	-4.10	0.84	KCl
Syngenite	-8.60	-14.93	-6.33	K2Ca(SO4)2:H2O
Thenardite	-5.40	-5.68	-0.28	Na2SO4
Trona	-11.00	-22.38	-11.38	Na3H(CO3)2:2H2O

**For a gas, SI = log10(fugacity). Fugacity = pressure * phi / 1 atm.
For ideal gases, phi = 1.

Beginning of batch-reaction calculations.

Reaction step 1.

Using solution 1.

Using pure phase assemblage 1.

-----Phase assemblage-----

Phase	SI	log IAP	log K(T, P)	Moles in assemblage		
				Initial	Final	Delta
Barite	0.00	-9.89	-9.89	1.800e-04	1.796e-04	-4.402e-07

-----Solution composition-----

Elements	Molality	Moles
Ba	4.402e-07	4.402e-07
C	1.950e-02	1.950e-02
Ca	4.815e-03	4.815e-03
Cl	1.117e-01	1.117e-01
K	1.228e-03	1.228e-03
Mg	2.674e-03	2.674e-03
Na	6.207e-02	6.207e-02
S	3.352e-03	3.352e-03

-----Description of solution-----

	pH = 6.400	Charge balance
	pe = -1.000	Adjusted to redox equilibrium
Specific Conductance ($\mu\text{S}/\text{cm}$, 20°C)	= 10012	

```

Density (g/cm3) = 1.00281
Volume (L) = 1.00423
Activity of water = 0.997
Ionic strength (mol/kgw) = 1.147e-01
Mass of water (kg) = 1.000e+00
Total alkalinity (eq/kg) = 1.099e-02
Total CO2 (mol/kg) = 1.950e-02
Temperature (°C) = 20.00
Electrical balance (eq) = -5.111e-02
Percent error, 100*(Cat-|An|)/(Cat+|An|) = -24.61
Iterations = 7
Gamma iterations = 3
Osmotic coefficient = 0.92203
Density of water = 0.99820
Total H = 1.110234e+02
Total O = 5.556961e+01

```

-----Distribution of species-----

Species	Molality	MacInnes Activity	Log Molality	MacInnes Log Activity	MacInnes Log Gamma	mole V cm ³ /mol
H+	5.029e-07	3.981e-07	-6.299	-6.400	-0.101	0.00
OH-	2.352e-08	1.714e-08	-7.629	-7.766	-0.137	-3.93
H2O	5.551e+01	9.966e-01	1.744	-0.001	0.000	18.05
Ba	4.402e-07					
Ba+2	4.402e-07	1.459e-07	-6.356	-6.836	-0.480	-12.27
C(4)	1.950e-02					
HCO3-	1.098e-02	9.173e-03	-1.959	-2.038	-0.078	24.81
CO2	8.510e-03	8.619e-03	-2.070	-2.065	0.006	34.19
CO3-2	3.386e-06	9.474e-07	-5.470	-6.023	-0.553	-3.15
MgCO3	7.452e-07	7.452e-07	-6.128	-6.128	0.000	-17.08
Ca	4.815e-03					
Ca+2	4.815e-03	1.761e-03	-2.317	-2.754	-0.437	-17.49
Cl	1.117e-01					
Cl-	1.117e-01	8.475e-02	-0.952	-1.072	-0.120	18.18
K	1.228e-03					
K+	1.228e-03	9.322e-04	-2.911	-3.031	-0.120	9.08
Mg	2.674e-03					
Mg+2	2.674e-03	9.967e-04	-2.573	-3.001	-0.429	-20.94
MgCO3	7.452e-07	7.452e-07	-6.128	-6.128	0.000	-17.08
MgOH+	2.761e-09	2.485e-09	-8.559	-8.605	-0.046	(0)
Na	6.207e-02					
Na+	6.207e-02	4.883e-02	-1.207	-1.311	-0.104	-1.34
S(6)	3.352e-03					
SO4-2	3.352e-03	8.776e-04	-2.475	-3.057	-0.582	15.29
HSO4-	3.779e-08	2.900e-08	-7.423	-7.538	-0.115	40.18

-----Saturation indices-----

Phase	SI**	log IAP	log K(293 K, 1 atm)	
Anhydrite	-1.62	-5.81	-4.19	CaSO4
Aragonite	-0.59	-8.78	-8.19	CaCO3
Arcanite	-7.17	-9.12	-1.95	K2SO4
Artinite	-8.90	11.15	20.05	Mg2CO3(OH)2:3H2O
Barite	0.00	-9.89	-9.89	BaSO4
Bischofite	-9.81	-5.15	4.65	MgCl2:6H2O
Bloedite	-9.40	-11.74	-2.35	Na2Mg(SO4)2:4H2O
Brucite	-7.59	-18.53	-10.94	Mg(OH)2
Burkeite	-19.23	-20.00	-0.77	Na6CO3(SO4)2
Calcite	-0.33	-8.78	-8.45	CaCO3
Carnallite	-13.66	-9.26	4.40	KMgCl3:6H2O
CO2(g)	-0.66	-2.06	-1.41	CO2
Dolomite	-0.84	-17.80	-16.97	CaMg(CO3)2
Epsomite	-4.18	-6.07	-1.89	MgSO4:7H2O

Gaylussite	-8.01	-17.43	-9.42	CaNa ₂ (CO ₃) ₂ ·5H ₂ O
Glaserite	-12.64	-16.52	-3.88	NaK ₃ (SO ₄) ₂
Glauberite	-6.18	-11.49	-5.31	Na ₂ Ca(SO ₄) ₂
Goergeyite	-8.52	-38.17	-29.66	K ₂ Ca ₅ (SO ₄) ₆ H ₂ O
Gypsum	-1.22	-5.81	-4.60	CaSO ₄ ·2H ₂ O
H ₂ O(g)	-1.64	-0.00	1.63	H ₂ O
Halite	-3.95	-2.38	1.57	NaCl
Hexahydrate	-4.51	-6.07	-1.55	MgSO ₄ ·6H ₂ O
Huntite	-5.11	5.69	10.80	CaMg ₃ (CO ₃) ₄
Kainite	-9.97	-10.16	-0.19	KMgClSO ₄ ·3H ₂ O
Kaliginite	-5.51	-15.45	-9.94	KHCO ₃
Kieserite	-5.87	-6.06	-0.18	MgSO ₄ ·H ₂ O
Labile_S	-11.50	-17.17	-5.67	Na ₄ Ca(SO ₄) ₃ ·2H ₂ O
Leonhardite	-5.18	-6.06	-0.89	MgSO ₄ ·4H ₂ O
Leonite	-11.20	-15.18	-3.98	K ₂ Mg(SO ₄) ₂ ·4H ₂ O
Magnesite	-1.21	-9.02	-7.82	MgCO ₃
MgCl ₂ ·2H ₂ O	-20.13	-5.15	14.98	MgCl ₂ ·2H ₂ O
MgCl ₂ ·4H ₂ O	-12.23	-5.15	7.08	MgCl ₂ ·4H ₂ O
Mirabilite	-4.23	-5.69	-1.46	Na ₂ SO ₄ ·10H ₂ O
Misenite	-73.23	-84.04	-10.81	K ₈ H ₆ (SO ₄) ₇
Nahcolite	-2.99	-13.73	-10.74	NaHCO ₃
Natron	-7.84	-8.66	-0.82	Na ₂ CO ₃ ·10H ₂ O
Nesquehonite	-3.86	-9.03	-5.17	MgCO ₃ ·3H ₂ O
Pentahydrate	-4.78	-6.07	-1.28	MgSO ₄ ·5H ₂ O
Pirssonite	-8.19	-17.43	-9.23	Na ₂ Ca(CO ₃) ₂ ·2H ₂ O
Polyhalite	-13.06	-26.80	-13.74	K ₂ MgCa ₂ (SO ₄) ₄ ·2H ₂ O
Portlandite	-13.10	-18.29	-5.19	Ca(OH) ₂
Schoenite	-10.86	-15.18	-4.33	K ₂ Mg(SO ₄) ₂ ·6H ₂ O
Sylvite	-4.95	-4.10	0.84	KCl
Syngenite	-8.60	-14.93	-6.33	K ₂ Ca(SO ₄) ₂ ·H ₂ O
Thenardite	-5.40	-5.68	-0.28	Na ₂ SO ₄
Trona	-11.00	-22.38	-11.38	Na ₃ H(CO ₃) ₂ ·2H ₂ O

**For a gas, SI = log₁₀(fugacity). Fugacity = pressure * phi / 1 atm.
 For ideal gases, phi = 1.

 End of simulation.

 Reading input data for simulation 2.

 End of Run after 1.237 Seconds.

APMW-5

SOLUTION 1 #APMW-5

temp	20	
pH	6.4	
pe	-1.38	
redox	pe	
units	mmol/kgw	
density	1	
Alkalinity	404 mg/kgw	
Ba	0 mg/kgw	
Ca	324 mg/kgw	
Cl	8790 mg/kgw	charge
K	173 mg/kgw	
Mg	587 mg/kgw	
Na	5482 mg/kgw	
S(6)	961 mg/kgw	
-water	1 # kg	

EQUILIBRIUM_PHASES 1

Barite	0 0.00018
--------	-----------

Input file: \\aro-01\prj1\$\Mississippi Power\Plant Watson\05_Deliverables\09_ASD\01_ASD
 \05_Geochemical Modeling\Barite Simulations\APMW5.pqi
 Output file: \\aro-01\prj1\$\Mississippi Power\Plant Watson\05_Deliverables\09_ASD\01_ASD
 \05_Geochemical Modeling\Barite Simulations\APMW5.pqi
 Database file: C:\Program Files (x86)\USGS\Phreeqc Interactive 3.4.0-12927\database
 \pitzer.dat

 Reading data base.

SOLUTION_MASTER_SPECIES
 SOLUTION_SPECIES
 PHASES
 PITZER
 EXCHANGE_MASTER_SPECIES
 EXCHANGE_SPECIES
 SURFACE_MASTER_SPECIES
 SURFACE_SPECIES
 END

 Reading input data for simulation 1.

DATABASE C:\Program Files (x86)\USGS\Phreeqc Interactive 3.4.0-12927\database
 \pitzer.dat

SOLUTION 1 #APMW-5
 temp 20
 pH 6.4
 pe -1.38
 redox pe
 units mmol/kgw
 density 1
 Alkalinity 404 mg/kgw
 Ba 0 mg/kgw
 Ca 324 mg/kgw
 Cl 8790 mg/kgw charge
 K 173 mg/kgw
 Mg 587 mg/kgw
 Na 5482 mg/kgw
 S(6) 961 mg/kgw
 water 1 # kg
 EQUILIBRIUM_PHASES 1
 Barite 0 0.00018

 Beginning of initial solution calculations.

Initial solution 1.

-----Solution composition-----

Elements	Molality	Moles	
Alkalinity	8.073e-03	8.073e-03	
Ca	8.084e-03	8.084e-03	
Cl	2.793e-01	2.793e-01	Charge balance
K	4.425e-03	4.425e-03	
Mg	2.415e-02	2.415e-02	
Na	2.385e-01	2.385e-01	
S(6)	1.000e-02	1.000e-02	

-----Description of solution-----

pH = 6.400
 pe = -1.380
 Specific Conductance ($\mu\text{S}/\text{cm}$, 20°C) = 25919

Density (g/cm³) = 1.01142
 Volume (L) = 1.00665
 Activity of water = 0.991
 Ionic strength (mol/kgw) = 3.496e-01
 Mass of water (kg) = 1.000e+00
 Total carbon (mol/kg) = 1.325e-02
 Total CO2 (mol/kg) = 1.325e-02
 Temperature (°C) = 20.00
 Electrical balance (eq) = -5.853e-13
 Percent error, 100*(Cat-|An|)/(Cat+|An|) = -0.00
 Iterations = 10
 Gamma iterations = 3
 Osmotic coefficient = 0.90302
 Density of water = 0.99820
 Total H = 1.110205e+02
 Total O = 5.558079e+01

-----Distribution of species-----

Species	Molality	MacInnes Activity	Log Molality	MacInnes Log Activity	MacInnes Log Gamma	mole V cm ³ /mol
H+	5.099e-07	3.981e-07	-6.293	-6.400	-0.107	0.00
OH-	2.806e-08	1.703e-08	-7.552	-7.769	-0.217	-3.44
H2O	5.551e+01	9.906e-01	1.744	-0.004	0.000	18.05
C(4)	1.325e-02					
HCO3-	8.059e-03	5.769e-03	-2.094	-2.239	-0.145	25.46
CO2	5.180e-03	5.453e-03	-2.286	-2.263	0.022	34.19
CO3-2	4.050e-06	5.958e-07	-5.393	-6.225	-0.832	-2.06
MgCO3	3.153e-06	3.153e-06	-5.501	-5.501	0.000	-17.08
Ca	8.084e-03					
Ca+2	8.084e-03	2.142e-03	-2.092	-2.669	-0.577	-17.12
Cl	2.793e-01					
Cl-	2.793e-01	1.886e-01	-0.554	-0.725	-0.171	18.40
K	4.425e-03					
K+	4.425e-03	3.072e-03	-2.354	-2.513	-0.158	9.29
Mg	2.415e-02					
Mg+2	2.415e-02	6.705e-03	-1.617	-2.174	-0.556	-20.57
MgCO3	3.153e-06	3.153e-06	-5.501	-5.501	0.000	-17.08
MgOH+	1.775e-08	1.662e-08	-7.751	-7.779	-0.029	(0)
Na	2.385e-01					
Na+	2.385e-01	1.736e-01	-0.623	-0.760	-0.138	-1.02
S(6)	1.000e-02					
SO4-2	1.000e-02	1.409e-03	-2.000	-2.851	-0.851	16.60
HSO4-	6.727e-08	4.657e-08	-7.172	-7.332	-0.160	40.39

-----Saturation indices-----

Phase	SI**	log IAP	log K(293 K, 1 atm)	
Anhydrite	-1.33	-5.52	-4.19	CaSO4
Aragonite	-0.70	-8.89	-8.19	CaCO3
Arcanite	-5.93	-7.88	-1.95	K2SO4
Artinite	-7.45	12.59	20.05	Mg2CO3(OH)2:3H2O
Bischofite	-8.30	-3.65	4.65	MgCl2:6H2O
Bloedite	-7.07	-9.41	-2.35	Na2Mg(SO4)2:4H2O
Brucite	-6.77	-17.71	-10.94	Mg(OH)2
Burkeite	-15.72	-16.49	-0.77	Na6CO3(SO4)2
Calcite	-0.44	-8.89	-8.45	CaCO3
Carnallite	-11.29	-6.88	4.40	KMgCl3:6H2O
CO2(g)	-0.86	-2.26	-1.41	CO2
Dolomite	-0.33	-17.29	-16.97	CaMg(CO3)2
Epsomite	-3.17	-5.05	-1.89	MgSO4:7H2O
Gaylussite	-7.24	-16.66	-9.42	CaNa2(CO3)2:5H2O
Glaserite	-10.12	-14.00	-3.88	NaK3(SO4)2
Glauberite	-4.58	-9.89	-5.31	Na2Ca(SO4)2

Goergeyite	-5.82	-35.48	-29.66	K2Ca5(SO4)6H2O
Gypsum	-0.93	-5.53	-4.60	CaSO4:2H2O
H2O(g)	-1.64	-0.00	1.63	H2O
Halite	-3.05	-1.48	1.57	NaCl
Hexahydrite	-3.50	-5.05	-1.55	MgSO4:6H2O
Huntite	-3.34	7.45	10.80	CaMg3(CO3)4
Kainite	-8.08	-8.27	-0.19	KMgClSO4:3H2O
Kaliginite	-5.20	-15.14	-9.94	KHCO3
Kieserite	-4.84	-5.03	-0.18	MgSO4:H2O
Labile_S	-8.60	-14.27	-5.67	Na4Ca(SO4)3:2H2O
Leonhardite	-4.15	-5.04	-0.89	MgSO4:4H2O
Leonite	-8.94	-12.92	-3.98	K2Mg(SO4)2:4H2O
Magnesite	-0.58	-8.40	-7.82	MgCO3
MgCl2_2H2O	-18.61	-3.63	14.98	MgCl2:2H2O
MgCl2_4H2O	-10.72	-3.64	7.08	MgCl2:4H2O
Mirabilite	-2.95	-4.41	-1.46	Na2SO4:10H2O
Misenite	-67.65	-78.46	-10.81	K8H6(SO4)7
Nahcolite	-2.64	-13.39	-10.74	NaHCO3
Natron	-6.96	-7.79	-0.82	Na2CO3:10H2O
Nesquehonite	-3.24	-8.41	-5.17	MgCO3:3H2O
Pentahydrite	-3.76	-5.05	-1.28	MgSO4:5H2O
Pirssonite	-7.41	-16.65	-9.23	Na2Ca(CO3)2:2H2O
Polyhalite	-10.21	-23.95	-13.74	K2MgCa2(SO4)4:2H2O
Portlandite	-13.02	-18.21	-5.19	Ca(OH)2
Schoenite	-8.60	-12.93	-4.33	K2Mg(SO4)2:6H2O
Sylvite	-4.08	-3.24	0.84	KCl
Syngenite	-7.07	-13.40	-6.33	K2Ca(SO4)2:H2O
Thenardite	-4.10	-4.37	-0.28	Na2SO4
Trona	-9.76	-21.14	-11.38	Na3H(CO3)2:2H2O

**For a gas, SI = log10(fugacity). Fugacity = pressure * phi / 1 atm.
For ideal gases, phi = 1.

Beginning of batch-reaction calculations.

Reaction step 1.

Using solution 1.

Using pure phase assemblage 1.

-----Phase assemblage-----

Phase	SI	log IAP	log K(T, P)	Moles in assemblage		
				Initial	Final	Delta
Barite	0.00	-9.89	-9.89	1.800e-04	1.796e-04	-3.994e-07

-----Solution composition-----

Elements	Molality	Moles
Ba	3.994e-07	3.994e-07
C	1.325e-02	1.325e-02
Ca	8.084e-03	8.084e-03
Cl	2.793e-01	2.793e-01
K	4.425e-03	4.425e-03
Mg	2.415e-02	2.415e-02
Na	2.385e-01	2.385e-01
S	1.000e-02	1.000e-02

-----Description of solution-----

	pH = 6.400	Charge balance
	pe = -1.380	Adjusted to redox equilibrium
Specific Conductance (µS/cm, 20°C)	= 25919	

```

Density (g/cm3) = 1.01142
Volume (L) = 1.00665
Activity of water = 0.991
Ionic strength (mol/kgw) = 3.496e-01
Mass of water (kg) = 1.000e+00
Total alkalinity (eq/kg) = 8.073e-03
Total CO2 (mol/kg) = 1.325e-02
Temperature (°C) = 20.00
Electrical balance (eq) = 6.387e-12
Percent error, 100*(Cat-|An|)/(Cat+|An|) = 0.00
Iterations = 7
Gamma iterations = 3
Osmotic coefficient = 0.90302
Density of water = 0.99820
Total H = 1.110205e+02
Total O = 5.558079e+01

```

-----Distribution of species-----

Species	Molality	MacInnes Activity	Log Molality	MacInnes Log Activity	MacInnes Log Gamma	mole V cm ³ /mol
H+	5.099e-07	3.981e-07	-6.293	-6.400	-0.107	0.00
OH-	2.806e-08	1.703e-08	-7.552	-7.769	-0.217	-3.44
H2O	5.551e+01	9.906e-01	1.744	-0.004	0.000	18.05
Ba	3.994e-07					
Ba+2	3.994e-07	9.083e-08	-6.399	-7.042	-0.643	-11.77
C(4)	1.325e-02					
HCO3-	8.059e-03	5.769e-03	-2.094	-2.239	-0.145	25.46
CO2	5.180e-03	5.453e-03	-2.286	-2.263	0.022	34.19
CO3-2	4.050e-06	5.958e-07	-5.393	-6.225	-0.832	-2.06
MgCO3	3.153e-06	3.153e-06	-5.501	-5.501	0.000	-17.08
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Ca+2	8.084e-03	2.142e-03	-2.092	-2.669	-0.577	-17.12
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Cl-	2.793e-01	1.886e-01	-0.554	-0.725	-0.171	18.40
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Mg+2	2.415e-02	6.705e-03	-1.617	-2.174	-0.557	-20.57
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Na	2.385e-01					
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-----Saturation indices-----

Phase	SI**	log IAP	log K(293 K, 1 atm)	
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Aragonite	-0.70	-8.89	-8.19	CaCO3
Arcanite	-5.93	-7.88	-1.95	K2SO4
Artinite	-7.45	12.59	20.05	Mg2CO3(OH)2:3H2O
Barite	0.00	-9.89	-9.89	BaSO4
Bischofite	-8.30	-3.65	4.65	MgCl2:6H2O
Bloedite	-7.07	-9.41	-2.35	Na2Mg(SO4)2:4H2O
Brucite	-6.77	-17.71	-10.94	Mg(OH)2
Burkeite	-15.72	-16.49	-0.77	Na6CO3(SO4)2
Calcite	-0.44	-8.89	-8.45	CaCO3
Carnallite	-11.29	-6.88	4.40	KMgCl3:6H2O
CO2(g)	-0.86	-2.26	-1.41	CO2
Dolomite	-0.33	-17.29	-16.97	CaMg(CO3)2
Epsomite	-3.17	-5.05	-1.89	MgSO4:7H2O

Gaylussite	-7.24	-16.66	-9.42	CaNa ₂ (CO ₃) ₂ :5H ₂ O
Glaserite	-10.12	-14.00	-3.88	NaK ₃ (SO ₄) ₂
Glauberite	-4.58	-9.89	-5.31	Na ₂ Ca(SO ₄) ₂
Goergeyite	-5.82	-35.48	-29.66	K ₂ Ca ₅ (SO ₄) ₆ H ₂ O
Gypsum	-0.93	-5.53	-4.60	CaSO ₄ :2H ₂ O
H ₂ O(g)	-1.64	-0.00	1.63	H ₂ O
Halite	-3.05	-1.48	1.57	NaCl
Hexahydrate	-3.50	-5.05	-1.55	MgSO ₄ :6H ₂ O
Huntite	-3.34	7.45	10.80	CaMg ₃ (CO ₃) ₄
Kainite	-8.08	-8.27	-0.19	KMgClSO ₄ :3H ₂ O
Kalicinite	-5.20	-15.14	-9.94	KHCO ₃
Kieserite	-4.84	-5.03	-0.18	MgSO ₄ :H ₂ O
Labile_S	-8.60	-14.27	-5.67	Na ₄ Ca(SO ₄) ₃ :2H ₂ O
Leonhardite	-4.15	-5.04	-0.89	MgSO ₄ :4H ₂ O
Leonite	-8.94	-12.92	-3.98	K ₂ Mg(SO ₄) ₂ :4H ₂ O
Magnesite	-0.58	-8.40	-7.82	MgCO ₃
MgCl ₂ _2H ₂ O	-18.61	-3.63	14.98	MgCl ₂ :2H ₂ O
MgCl ₂ _4H ₂ O	-10.72	-3.64	7.08	MgCl ₂ :4H ₂ O
Mirabilite	-2.95	-4.41	-1.46	Na ₂ SO ₄ :10H ₂ O
Misenite	-67.65	-78.46	-10.81	K ₈ H ₆ (SO ₄) ₇
Nahcolite	-2.64	-13.39	-10.74	NaHCO ₃
Natron	-6.96	-7.79	-0.82	Na ₂ CO ₃ :10H ₂ O
Nesquehonite	-3.24	-8.41	-5.17	MgCO ₃ :3H ₂ O
Pentahydrate	-3.76	-5.04	-1.28	MgSO ₄ :5H ₂ O
Pirssonite	-7.41	-16.65	-9.23	Na ₂ Ca(CO ₃) ₂ :2H ₂ O
Polyhalite	-10.21	-23.95	-13.74	K ₂ MgCa ₂ (SO ₄) ₄ :2H ₂ O
Portlandite	-13.02	-18.21	-5.19	Ca(OH) ₂
Schoenite	-8.60	-12.93	-4.33	K ₂ Mg(SO ₄) ₂ :6H ₂ O
Sylvite	-4.08	-3.24	0.84	KCl
Syngenite	-7.07	-13.40	-6.33	K ₂ Ca(SO ₄) ₂ :H ₂ O
Thenardite	-4.10	-4.37	-0.28	Na ₂ SO ₄
Trona	-9.76	-21.14	-11.38	Na ₃ H(CO ₃) ₂ :2H ₂ O

**For a gas, SI = log₁₀(fugacity). Fugacity = pressure * phi / 1 atm.
 For ideal gases, phi = 1.

 End of simulation.

 Reading input data for simulation 2.

 End of Run after 1.203 Seconds.



Prepared for

Balch & Bingham, LLP
1310 Twenty Fifth Ave.
Gulfport, MS 39501

**RADIUM ALTERNATE SOURCE
DEMONSTRATION
PLANT WATSON FORMER CCR UNIT**

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

26148 Capital Drive, Suite E
Daphne, Alabama 36526

Project Number FR3795

December 2020

CERTIFICATION STATEMENT

This *Radium Alternate Source Demonstration, Mississippi Power Company – Plant Watson – Former CCR Unit* has been prepared in general accordance with the requirements of the United States Environmental Protection Agency coal combustion residuals rule (40 Code of Federal Regulations [CFR] Part 257.95(g)(3)(ii)) under the supervision of a State of Mississippi licensed Professional Engineer with Geosyntec Consultants, Inc.



Benjamin K. Amos

Benjamin K. Amos, Ph.D., P.E.
Mississippi Professional Engineer No. 27736

12/08/2020

Date

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LIST OF ACRONYMS

ACM	Assessment of Corrective Measures
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
DPT	direct push technology
EPRI	Electric Power Research Institute
GWPS	Groundwater Protection Standard
LEAF	Leaching Environmental Assessment Framework
MCL	maximum contaminant level
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mV	millivolt
ORP	oxidation reduction potential
pCi/g	picocuries per gram
pCi/L	picocuries per liter
PE	professional engineer
R ²	coefficient of determination
SSL	statistically significant level
S.U.	standard units
TDS	total dissolved solids
UCL95	95% upper confidence limit
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

This document presents an alternate source demonstration (ASD) for the statistically significant levels (SSLs) of combined radium 226 and 228 (radium) observed in downgradient groundwater monitoring wells installed around the former coal combustion residuals (CCR) unit (Site) at Mississippi Power Company (Mississippi Power) Plant Jack Watson Electric Generating Plant (Plant Watson). The SSLs for radium were identified during semi-annual assessment groundwater monitoring performed at the Site.

This ASD has been prepared to meet the requirements of the United States Environmental Protection Agency's (USEPA's) CCR Rule 40 CFR Part 257.95(g)(3)(ii) which states that the owner or operator may demonstrate that a source other than the CCR unit caused the contamination, or that the SSL resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.

This ASD presents multiple lines of evidence that the radium SSLs observed at the Site are due to a natural source and not the result of groundwater impacts from the former CCR unit. ^{226}Ra and ^{228}Ra along with their parent radionuclides uranium and thorium are naturally occurring in the soil matrix surrounding the Site. To support this ASD, the following lines of evidence and supporting analyses are discussed:

1. Uranium and thorium, radium's parent radionuclides, are naturally present in the soil matrix at Plant Watson.
 - a. Uranium and thorium are concentrated in a well-documented clay layer (Unit 2) that is observed across Plant Watson.
 - b. Soil sample analytical results indicate that uranium and thorium are naturally present in soils spatially upgradient and downgradient of the Site.
 - c. A positive correlation exists between parent and daughter radionuclides, indicating that uranium and thorium are naturally occurring sources of ^{226}Ra and ^{228}Ra in the soil matrix.
2. Radium isotopes are observed in the soil matrix at Plant Watson and are released to groundwater due to unique geochemical conditions present in downgradient wells.
 - a. Levels of radium are concentrated in a well-documented clay layer (Unit 2) that is observed across Plant Watson.
 - b. Soil sample analytical results indicate that radium isotopes are present in both upgradient and downgradient soils at the Site. The presence of radium

- in upgradient locations demonstrates that radium occurs naturally in the soil matrix.
- c. A positive correlation exists between thorium in the soil matrix and ^{228}Ra in groundwater, indicating that thorium is the likely source of ^{228}Ra in groundwater.
 - d. While naturally occurring uranium is contributing ^{226}Ra to downgradient groundwater (due to natural radioactive decay processes), naturally occurring uranium does not appear to account for all of the observed ^{226}Ra concentrations. Another natural source of ^{226}Ra (e.g., radium-substituted barite [barium sulfate]) is present in the soil matrix. This is readily apparent at APMW-1R and APMW-2 where the greatest concentrations of ^{226}Ra and barium in groundwater are encountered.
 - e. Literature indicates that elevated groundwater salinity and reducing conditions promotes the release of radium from soil matrices. Groundwater from monitoring wells with radium SSLs has elevated salinity (resembling the adjacent surface water which is naturally saline/brackish) and reducing conditions, making it conducive to radium release.
 - f. A leaching test confirmed that radium from upgradient soil samples can be released in the presence of groundwater with elevated salinity. Therefore, the soil matrix serves as a naturally occurring source of radium to groundwater under the geochemical conditions encountered downgradient of the former CCR unit.
 - g. Geochemical modeling indicates that low concentrations of sulfate in groundwater can result in the release of ^{226}Ra from radium-substituted barite. The two downgradient monitoring wells (APMW-1R and APMW-2) with the lowest sulfate concentrations have the highest ^{226}Ra concentrations, which supports the conclusion that Ra-barite is a source of ^{226}Ra to groundwater.
3. The spatial distribution of radionuclides supports the conclusion that radionuclides occur naturally in the soil matrix at Plant Watson.
 - a. Soil sample analytical results indicate that levels of uranium, thorium, and radium in soil upgradient of the former CCR unit are similar or slightly greater than downgradient levels. These radionuclides are naturally present and sources of radium at Plant Watson.
 - b. Soil and groundwater sample results from the additional background well locations (APMW-13, APMW-14, APMW-15, and APMW-16), which

are screened in a geochemical environment similar to downgradient monitoring wells (i.e., with an elevated salinity and reducing geochemical conditions), support the mechanism of radium release from upgradient soils due to interaction with saline groundwater. This is in contrast to the existing background monitoring wells APMW-11 and APMW-12 which were installed in a geochemical environment characterized by low salinity and oxidizing conditions, where radium concentrations were negligible. This further supports the conclusion that unique geochemical conditions downgradient of the former CCR unit, relative to upgradient, promote the release of radium to groundwater.

4. Radium concentrations in ash porewater are significantly lower than radium concentrations in the underlying Unit 3 groundwater (statistically evaluated at the 99% confidence level). As such, a release of porewater from the former CCR unit cannot account for the radium levels observed in groundwater downgradient of the former CCR unit.

Combined, these lines of evidence demonstrate that a source other than the former CCR unit resulted in the radium SSLs observed in downgradient groundwater monitoring wells.

2.0 BACKGROUND

2.1 Site Background

Plant Watson is in Harrison County, Mississippi near the City of Gulfport. Plant Watson is bordered by Interstate Highway 10 (I-10) to the north, Reichold Road and industrial land to the south, the tidally influenced Biloxi River to the east, and industrial land to the west (**Figure 1**). The former CCR unit operated on 102-acres to support coal-fired electricity generation at Plant Watson until April 2015. Saline water from the intake canal was used to sluice CCR into the former CCR unit during coal-fired operations. In 2015, Mississippi Power began operating Units 4 and 5 exclusively on natural gas and the former CCR unit was subsequently closed in May 2018 using the cap-in-place method as approved by the USEPA.

2.1.1 Geology

Four distinct geologic units have been encountered near the former CCR unit. Unit 1 is comprised of dike fill material and is underlain by Unit 2, a sandy clay aquitard. Material in the former CCR unit is at the same elevation as Unit 1 and above Unit 2. Unit 3, below Unit 2, is the uppermost aquifer beneath the former CCR unit and consists primarily of sand. The CCR monitoring well network is screened in Unit 3. Finally, Unit 4 (the deepest unit) acts as a clay aquitard underlying Unit 3.

2.1.2 Groundwater Monitoring

In accordance with 40 CFR 257.91, a CCR groundwater monitoring system was installed at the boundary of the former CCR unit at locations and depths to yield groundwater samples from the uppermost aquifer (Unit 3). The CCR monitoring well network was certified by a professional engineer (PE), and the certification was placed in the Operating Record. The locations of the CCR monitoring wells are shown on **Figure 2**.

Groundwater monitoring data collected during semiannual monitoring events completed in August 2019 and March 2020 were statistically analyzed pursuant to 40 CFR 257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009). Statistical analyses identified combined radium (i.e., the sum of radium isotopes ^{226}Ra and ^{228}Ra) as one of the constituents with SSLs above applicable groundwater protection standards (GWPSs). Combined radium SSLs were identified in the following wells: APMW-1R, APMW-2, APMW-3, APMW-7, and APMW-9.

In accordance with 40 CFR 257.95(g), a notification identifying SSL constituents (including combined radium) was prepared and placed in the Operating Record on January 13, 2020. Pursuant to 40 CFR 257.96, an assessment of corrective measures (ACM) was initiated on March 15, 2020.

2.1.3 Groundwater Geochemistry

Plant Watson is in a complex hydrogeologic setting characterized by multiple contributions to groundwater quality including upgradient fresh groundwater, brackish to saline surface water from the Biloxi River, and saltwater from the Gulf of Mexico. This mixing of multiple water sources leads to a unique geochemical signature in the vicinity of the former CCR unit. A groundwater quality assessment conducted in 1995 (SCS, 1995) indicated that groundwater in Unit 3 in the vicinity of the former CCR unit resembled surrounding saline surface waters, using total dissolved solids (TDS) as a proxy for salinity. In the 1995 study, groundwater characterized by TDS > 10,000 ppm was considered very saline, between 3,000 and 10,000 ppm TDS was considered moderately saline (brackish), and between 1,000 and 3,000 ppm TDS was considered slightly saline (brackish). Fresh water was characterized as having TDS below 1,000 ppm.

Like the 1995 study, recent groundwater sampling results (SCS, 2019 and SCS, 2020), also show that the Unit 3 groundwater salinity profile transitions from moderately saline or brackish in wells screened beneath the former CCR unit (TDS range of 4,700 to 9,000 milligrams per liter [mg/L] in September 2019) to fresh in existing background monitoring wells APMW-11 and APMW-12 (TDS range of 73 to 110 mg/L in August 2019) in the northwestern area of the Site (**Figure 3**). Additional background monitoring wells were installed in June 2020 in a tidal marsh upgradient of the former CCR unit (to the north) with groundwater quality more representative of conditions downgradient of the former CCR unit (see the *Comprehensive Groundwater Investigation Report* (Geosyntec 2020b) for more details about the installation of the additional background monitoring wells). The TDS ranged from 3,760 to 6,350 mg/L in the additional background monitoring wells during July 2020. Although this range is generally lower than the range observed in groundwater monitoring wells downgradient of the former CCR unit, it is higher than the range in the existing background monitoring wells, APMW-11 and APMW-12.

In addition to differences in salinity, differences in dissolved oxygen (DO) and oxidation reduction potential (ORP) are observed between groundwater in existing background monitoring wells and downgradient monitoring wells (i.e., APMW-1R through APMW-

6R and APMW-7 through APMW-10) (**Figure 3**). Generally, DO measurements are higher in the existing background monitoring wells, indicating a more aerobic geochemical environment, relative to downgradient and additional background monitoring wells. DO measurements in the additional background monitoring wells were similar to the downgradient monitoring wells. Oxidation-reduction potential measurements are generally lower in groundwater samples from downgradient monitoring wells and additional background monitoring wells than existing background monitoring wells. This suggests more reducing conditions are present in the downgradient and additional background monitoring wells relative to the existing background monitoring wells. In general, pH ranges from 6 to 7 standard units (S.U.) in all wells; however, the measured specific conductivity is at least an order of magnitude higher in groundwater from the downgradient and additional background monitoring wells compared to background wells, APMW-11 and APMW-12, consistent with the observed salinity.

These groundwater quality geochemical differences, in addition to differences in major ion content (e.g., sulfate), control the mobility of many groundwater constituents leading to differences in groundwater conditions between locations upgradient of the former CCR unit compared to downgradient.

2.2 Radium Overview

Radium is an alkaline earth metal that exists in nature in the +2 oxidation state (i.e., Ra^{2+}) like other alkaline earth metals such as barium (Ba^{2+}). Radium naturally occurs as several isotopes. Of the isotopes of radium, only two have half-lives greater than 15 days and promulgated standards: ^{226}Ra (1,600 years) and ^{228}Ra (5.75 years). Radium isotopes are derived from radioactive decay of uranium and thorium (i.e., radium parent radionuclides). Radioactive decay of uranium results in the formation of ^{226}Ra , while radioactive decay of thorium results in the formation of ^{228}Ra . During natural radioactive decay processes, charged particles including alpha and beta particles are emitted from the nucleus of an element. Sources of alpha activity include uranium, thorium, and ^{226}Ra while sources of beta activity include ^{228}Ra (Electric Power Research Institute [EPRI], 2008).

The abundance of radium isotopes in the environment depends on the isotope's half-life and the abundance of the isotope's parent radionuclide. Although ^{228}Ra has a relatively short half-life, USEPA uses the sum of the concentrations of ^{228}Ra and ^{226}Ra for the combined radium maximum contaminant level (MCL) of 5 picocuries per liter (pCi/L)

(USEPA, 2015). For simplicity, this document refers to the combined concentrations of ^{228}Ra and ^{226}Ra as radium and the individual isotopes in standard isotopic notation. The CCR Rule adopts the higher of either the radium MCL or background levels as the radium GWPS; for this Site, 5 pCi/L is the GWPS.

Radium mobility is primarily influenced by precipitation-dissolution and adsorption-desorption reactions. Radium's solubility in groundwater is primarily controlled by the presence of competing ions (especially other alkaline earth cations, such as barium) and organic material (EPRI, 2019) and the groundwater's pH, ORP, and salinity (Sturchio, et al., 2001).

3.0 PARENT RADIONUCLIDES OBSERVED IN SOIL MATRIX

3.1 Soil Sampling and Analysis

Field activities were completed in April 2020 to evaluate the presence of naturally occurring sources of radium parent radionuclides in the soil matrix. For this evaluation, direct push technology (DPT) borings were advanced at the locations shown on **Figure 4** and continuous soil cores were collected at each DPT boring. Ten downgradient DPT borings (DPT-1 through DPT-10) were advanced adjacent to the ten downgradient CCR monitoring wells (APMW-1R through APMW-10) and three upgradient DPT borings (DPT-11 through DPT-13) were advanced in the vicinity of existing background wells APMW-11 and APMW-12. Boring logs for DPT points are included in **Appendix A**.

Four additional background wells (**Figure 2**) were installed at the Site in June 2020 (further details on installation included in the *Comprehensive Groundwater Investigation Report*; Geosyntec 2020b). During installation of the additional background monitoring wells, soil matrix samples were collected and analyzed for constituents to support this ASD.

Soil samples were collected from both the Unit 2 clay aquitard and Unit 3 sand aquifer in the DPT borings and additional background wells and submitted to TestAmerica for laboratory analysis under chain of custody protocols. The soil samples were analyzed for total concentrations of uranium and thorium, and other Appendix IV metals.

A summary of analytical results for uranium and thorium in the DPT samples are presented in **Table 1** and the analytical results from the additional background wells are presented in **Table 2**. Laboratory reports are compiled in **Appendix B**.

3.2 Uranium and Thorium in Soil Matrix

As detailed in Section 2.2, uranium and thorium are parent radionuclides that undergo radioactive decay to form ^{226}Ra and ^{228}Ra . Uranium and thorium were detected in soils both upgradient (in the vicinity of the existing background wells and soils from additional background wells) and downgradient of the former CCR unit at concentrations up to 2.27 milligrams per kilogram (mg/kg) and 6.37 mg/kg in samples DPT-11-SS U2 and DPT-13-SS U2. Uranium and thorium were widely detected (at frequencies of 88% and 100%) in 34 upgradient and downgradient soil samples collected from Units 2 and 3 during the DPT investigation and additional background well installation (**Table 1** and **Table 2**).

Detections of uranium and thorium in upgradient soil samples demonstrate the presence of naturally occurring sources of radium in the soil matrix.

Uranium and thorium detection frequencies were observed to be greater in the Unit 2 clay relative to the Unit 3 sands. In addition, Unit 2 uranium and thorium concentrations were greater than concentrations in the paired deeper Unit 3 locations. The observation of concentrated uranium and thorium in the Unit 2 clay indicates this well-documented lithologic layer can serve as a natural source of radium in the Unit 2 and Unit 3 soil matrices due to advective groundwater flow and molecular diffusion from Unit 2 across Plant Watson.

3.3 Soil Correlation between Parent Radionuclides and Radium

Soil matrix analytical results were evaluated for correlations between parent radionuclides (i.e., uranium and thorium) and daughter radionuclides (i.e., ²²⁶Ra and ²²⁸Ra) in soil. In its simplest form, a correlation between two variables is a measure of the relationship between the two variables. Correlations can be positive or negative. A positive correlation between a parent radionuclide measured in the soil matrix and its daughter radionuclide would suggest that the parent radionuclide is likely the source of the daughter radionuclide.

A coefficient of determination (R^2) can be calculated as a measure of the strength of the relationship between the two variables. An R^2 of 1, indicates a perfect positive relationship between the variables. An R^2 of 0, indicates no correlation or relationship exists between the variables. In general, $R^2 > 0.5$ indicates a moderate or higher positive correlation.¹ Correlations between parent radionuclides and corresponding daughter radium isotopes are presented in **Figure 5**. A moderate positive correlation ($R^2 = 0.53$) was observed between the parent radionuclide uranium and its daughter radionuclide ²²⁶Ra in the soil matrix. A similar moderate correlation ($R^2 = 0.59$) exists between the parent radionuclide thorium and its daughter radionuclide ²²⁸Ra. The positive correlations between parent and daughter radium isotopes indicate that uranium and thorium observed in the soil matrix are sources of radium in the soil matrix.

¹ The strength of a positive correlation based on R^2 can be generalized as follows (Hinkle et al., 2003): >0.9, very high positive correlation; 0.7 to 0.9, high positive correlation; 0.5 to 0.7, moderate positive correlation; 0.3 to 0.5, low positive correlation; and <0.3, negligible correlation.

4.0 RADIUM IN SOIL MATRIX RELEASED TO GROUNDWATER

4.1 Soil Sampling and Analysis

In addition to investigating the presence of parent radionuclides, the presence of radium in the soil matrix was also evaluated using samples collected during the April 2020 DPT investigation and June 2020 additional background well installation.

Soil samples collected from both the Unit 2 clay and Unit 3 aquifer in the 13 DPT borings and 4 additional background wells (**Figure 4**) were submitted to TestAmerica for laboratory analysis under chain of custody protocols. In addition to uranium and thorium discussed above, the soil samples were analyzed for ^{226}Ra , ^{228}Ra , combined radium, and other Appendix IV metals. A summary of analytical results for radium isotopes are presented in **Table 1 and Table 2**. Laboratory reports are compiled in **Appendix B**.

Similar to the investigation with parent radionuclides and radium in soils, the April 2020 DPT soil data was also analyzed for correlations between parent radionuclides in the soil matrix and radium isotopes in downgradient groundwater using data from the March 2020 sampling event.

4.2 Radium in Soil Matrix and Release to Groundwater

4.2.1 Radium in the Soil Matrix

As discussed in Section 2.2, radium results from the decay of parent radionuclides uranium and thorium. Radium was widely detected (at a frequency of 70%) in the 34 upgradient (in the vicinity of the existing background wells and soils from additional background wells) and downgradient soil samples at concentrations up to approximately 2 picocuries per gram (pCi/g). In addition, the individual isotopes of radium, ^{226}Ra and ^{228}Ra , were detected at frequencies of 76% and 50% in the 34 upgradient and downgradient soil samples at concentrations up to approximately 1 pCi/g each. The presence of radium at upgradient locations demonstrates that radium occurs naturally in the soil matrix.

As observed with uranium and thorium, radium concentrations were greater in the Unit 2 samples than the Unit 3 samples; 81% of the samples from Unit 2 had higher radium concentrations than the concentrations in the paired deeper Unit 3 locations. The observation of concentrated radium in the Unit 2 clay indicates this well-documented lithologic layer can serve as a source of radium across Plant Watson. The interaction of

Unit 3 groundwater with the Unit 2 soil matrix at the Unit 2/Unit 3 interface combined with advective groundwater flow and molecular diffusion out of Unit 2 contributes to the observed radium concentrations in Unit 3.

4.2.2 Radium in the Soil Matrix Released to Downgradient Groundwater

4.2.2.1 Soil / Groundwater Correlation between Parent Radionuclides and Radium

Correlation coefficients between parent radionuclides (uranium and thorium) in downgradient soil and daughter radium isotopes in downgradient groundwater were calculated to evaluate the potential for parent radionuclides in soil to serve as the source of the radium isotopes observed in groundwater. A positive correlation between uranium in the soil matrix and ^{226}Ra in groundwater would suggest that the uranium in soil is the likely source of the ^{226}Ra in groundwater. Similarly, a positive correlation between thorium in the soil matrix and ^{228}Ra in groundwater would suggest that the thorium in soil is the likely source of the ^{228}Ra in groundwater. The interpretation of the strength of a positive correlation using the correlation coefficient is consistent with the interpretation presented in Section 3.3.

Soil samples from the DPT investigation (i.e., DPT-1 through DPT-10) and collocated groundwater samples (i.e., APMW-1R through APMW-10 collected in March 2020) collected downgradient of the former CCR unit exhibited a high positive correlation ($R^2 = 0.74$) between the parent radionuclide thorium in soil and its daughter radionuclide ^{228}Ra in groundwater (**Figure 6**). This observation demonstrates that naturally occurring thorium in soil is the likely source of ^{228}Ra in groundwater.

The correlation between parent radionuclide uranium in soil and its daughter radionuclide ^{226}Ra in groundwater was also evaluated. As shown on **Figure 6**, uranium and ^{226}Ra have a negligible correlation ($R^2 = 0.0019$). Rather, the concentrations of ^{226}Ra in downgradient groundwater (especially in APMW-1R and APMW-2) are greater than would be expected if uranium decay in the soil matrix was the sole source of ^{226}Ra in groundwater. This observation suggests that, while natural uranium decay in the soil matrix is a contributing source of ^{226}Ra to downgradient groundwater, another source of ^{226}Ra accounts for the ^{226}Ra concentrations observed in downgradient groundwater.

Based on the mineralogy observed in the soil matrix and presented in the *Barium Alternate Source Demonstration* (Geosyntec, 2020a), another source of ^{226}Ra is likely the substitution of ^{226}Ra into sulfate minerals including barite. Due to their similar ionic size

and their chemical behavior, ^{226}Ra can preferentially (relative to ^{228}Ra) substitute for barium in the mineral barite (barium sulfate) (USEPA, 2004; IAEA, 2014). Ra-substitute barite is referred to as Ra-barite herein. As documented in the *Barium Alternate Source Demonstration* (Geosyntec, 2020a), barite serves as a source of barium to groundwater. In addition, barite can also serve as a source of substituted ^{226}Ra to groundwater (Phillips et al., 2001).

Based on Site-specific geochemical conditions, a geochemical model and supporting analyses presented in the *Barium Alternate Source Demonstration* (Geosyntec, 2020a) indicated a strong positive correlation ($R^2 = 0.98$) between barium concentrations in Unit 3 groundwater to simulated concentrations of barium released from dissolution of naturally occurring barite (**Figure 7**). Similarly, a strong positive correlation ($R^2 = 0.99$) was observed between barium concentrations and ^{226}Ra concentrations in Unit 3 groundwater downgradient of the former CCR unit (**Figure 8**). This suggests that barite is a source of barium and radium observed in downgradient monitoring wells. This evaluation supports that naturally occurring barite contributes ^{226}Ra to groundwater at the Site.

4.2.2.2 *Radium Release Due to Salinity*

A potential mechanism for release of naturally occurring radium that has been well documented in the literature involves desorption of radium from soils when in contact with groundwater with salinity (Hughes, 2016) and/or proxies for salinity like high TDS (IAEA, 2014; Sturchio et al., 2001; USEPA, 2004) or chloride (Miller and Sutcliffe, 1985). As indicated in Section 2.1.2, the groundwater geochemical conditions beneath the former CCR unit resemble the adjacent saline/brackish surface water with naturally occurring high concentrations of TDS. In fact, each downgradient monitoring well with a radium SSL has statically ($\alpha > 99\%$) higher concentrations of TDS (i.e., a surrogate for salinity) than upgradient locations (SCS, 2020). These observations indicate that the downgradient groundwater geochemical environment likely promote the release of naturally occurring radium. To evaluate this mechanism at Plant Watson, a leaching investigation was conducted.

The leach testing was performed using samples of background soils collected from an area characterized by a fresh groundwater environment where radium is detected in the soils but not appreciably detected in groundwater. The soils were leached using saline downgradient groundwater from the Site. The leaching procedure was completed by TestAmerica and was developed based on USEPA's Leaching Environmental

Assessment Framework (LEAF) (USEPA, 2017) but modified to evaluate the potential for radium dissolution from soils in the presence of saline groundwater. The leach test was completed with soil matrix collected from upgradient soil sample location DPT-11 and groundwater collected from downgradient monitoring well APMW-5. Groundwater from APMW-5 was selected because it had a combination of relatively low radium (2.82 pCi/L), high total dissolved solids (TDS; 15,000 mg/L), and high chloride (8,900 mg/L) during the March 2020 sampling event. The high TDS (i.e., surrogate for salinity) is representative of the unique groundwater geochemistry observed in groundwater downgradient of the former CCR unit.

To perform the leach test, Site groundwater and soil matrix were combined in glass containers and placed in a rotating device to turn end-over-end for seven days to simulate groundwater flowing through aquifer materials. The rotating device was set to turn approximately 30 times per minute at ambient temperature. After seven days, the contents of the containers were allowed to settle for 48 hours. Following the 48-hour settling period, approximately 2 liters of the supernatant liquid (i.e., the leachate) was collected and filtered using a 0.45-micron filter. The leachate sample was then placed in appropriate analytical laboratory containers and submitted for analysis. Groundwater from APMW-5 and the leachate sample were analyzed for uranium, thorium, ²²⁶Ra, and ²²⁸Ra. Analytical results are presented in **Table 3** and laboratory reports are compiled in **Appendix B**.

The leach test indicated that the geochemical conditions (i.e., primarily the elevated salinity) in groundwater downgradient of the former CCR unit leaches radium, resulting in release from soil to groundwater. Results from the leaching test are viewed as conservative (i.e., the increase in radium concentration is biased low) since leaching was conducted under aerobic/oxidizing conditions and radium is most mobile under anaerobic reducing conditions (USEPA, 2000b) similar to groundwater downgradient of the former CCR unit.

Release of radium from the upgradient soil matrix in contact with upgradient site groundwater is not observed, as evidenced by the low levels of radium in existing background monitoring wells APMW-11 and APMW-12. However, the increased radium concentration (80% greater than the APMW-5 groundwater) in laboratory leachate generated by mixing upgradient soil matrix with downgradient Site groundwater indicates that there is a radium release mechanism in downgradient Site groundwater that does not exist in upgradient Site groundwater (**Table 3**).

In addition to the release of radium from the soil matrix due to elevated salinity downgradient of the former CCR unit, the geochemical model presented in the *Barium Alternate Source Demonstration* (Geosyntec, 2020a) predicted that elevated salinity results in increased barium dissolution from barite. This is consistent with elevated salinity leading to an increase in barite solubility as presented in the literature (API, 1995). The influence of salinity on barite solubility can readily be extended to an increase in the solubility of Ra-barite, discussed in Section 4.2.2.1. As such, elevated levels of naturally occurring TDS and other components contributing to salinity may promote release of ²²⁶Ra from Ra-barite in the soil matrix.

As shown by the leaching test, elevated salinity representative of downgradient groundwater can increase leaching of naturally occurring radium from background soils that are in a relatively low salinity environment. In addition, increased Ra-barite dissolution as a result of elevated salinity can also contribute to the release of ²²⁶Ra to groundwater. The combination of these release mechanisms likely results in the elevated radium concentrations observed in groundwater downgradient of the former CCR unit.

4.2.2.3 Radium Release Under Reducing Conditions

Literature also indicates that radium is readily released under reducing conditions (USEPA, 2000a), similar to those observed downgradient but not upgradient of the former CCR unit. For example, in March 2020, upgradient monitoring wells, APMW-11 and APMW-12, had positive ORPs (6.4 and 5.7 millivolts [mV], respectively), whereas each monitoring well downgradient of the former CCR unit with a radium SSL had a lower ORP (as low as -253 mV) (**Figure 3**). This indicates that the downgradient geochemical environment is more reducing than the upgradient geochemical environment. Per USEPA (2000a), radium is more mobile under these reducing conditions and this observation is consistent with higher radium concentrations in downgradient monitoring wells relative to upgradient monitoring wells.

This observation indicates that the downgradient groundwater geochemical environment which is characterized by reducing conditions is more conducive for the release of naturally occurring radium from the soil matrix to groundwater than the geochemical environment upgradient of the former CCR unit, which is oxidizing.

4.2.2.4 Radium Release Under Low Sulfate Conditions

Another geochemical mechanism for ^{226}Ra release is due to low sulfate concentrations in groundwater (API, 1995), like that observed in select downgradient monitoring wells (e.g., APMW-1R and APMW-2) where ^{226}Ra groundwater concentrations are highest. API (1995) indicates that low sulfate concentrations can result in increased ^{226}Ra dissolution from Ra-barite. This is consistent with the predictions of the geochemical model presented in the *Barium Alternate Source Demonstration* (Geosyntec, 2020a), where low concentrations of sulfate in groundwater resulted in increased barium (and by extension ^{226}Ra) dissolution from Ra-barite in the soil matrix. This is further supported by data from the downgradient monitoring wells. The two wells that have the highest barium concentrations in downgradient groundwater (APMW-1R and APMW-2) also contain the lowest sulfate concentrations and are the only wells where the concentration of ^{226}Ra exceeds that of ^{228}Ra .

These observations indicate that the downgradient groundwater geochemical environment characterized by low sulfate concentrations at select wells is conducive to the release of naturally occurring radium from the soil matrix to groundwater.

5.0 SPATIAL EVALUATION OF RADIONUCLIDES IN SOIL MATRIX

5.1 Soil Analysis

In conjunction with radionuclides observed in the soil matrix, spatial evaluation of the radionuclide data can provide insight into differences in radionuclide levels observed in soil and groundwater upgradient versus downgradient of the former CCR unit. This was completed to support the conclusion that a naturally occurring source of radium is being released to groundwater due to the unique geochemistry encountered in downgradient monitoring wells.

In addition to observing the presence of radionuclides in the soil matrix at the DPT and additional monitoring well locations, a spatial evaluation of the radionuclide levels in upgradient versus downgradient locations was completed. For this analysis, upgradient and downgradient soil data collected from the 13 DPT borings installed in April 2020 and the four additional background monitoring wells installed in June 2020 were compared. Consistent or elevated levels of radionuclides in the upgradient soil matrix relative to the downgradient soil matrix would suggest radionuclides are naturally occurring since input from the former CCR unit could not occur at the upgradient locations.

As previous sections have discussed, increased salinity in groundwater is the primary mechanism by which radium in the soil matrix is released to groundwater. An evaluation of groundwater concentrations of radium in the existing background wells, downgradient monitoring wells, and the additional background wells provides a further line of evidence supporting this release mechanism.

5.2 Uranium and Thorium in Upgradient Soil Matrix

Parent radionuclides uranium and thorium (the abundance of which directly impacts the abundance of daughter radium isotopes in soil) were generally detected at similar or slightly higher concentrations in upgradient soils than in downgradient soils (**Table 1** and **Figure 9**). The upgradient DPT and additional background well locations are outside the influence of the former CCR unit, therefore the presence of parent radionuclides at these locations must be the result of a natural source in the soil matrix. The concentrations of uranium and thorium observed in the upgradient soil matrix further demonstrates the presence of naturally occurring sources of radium at Plant Watson.

5.3 Radium in Upgradient Soil Matrix

Similar to the distribution of uranium and thorium, radium concentrations were generally consistent in upgradient and downgradient soil samples (**Table 1** and **Figure 9**). Radium was detected in soil at similar to slightly higher concentrations, up to 2.04 pCi/g, upgradient of the former CCR unit, relative to a maximum concentration of 1.55 pCi/g downgradient of the former CCR unit. The presence of radium in soil samples upgradient of the former CCR unit (i.e., adjacent to the existing background wells) demonstrates the presence of naturally occurring radium at the site.

5.4 Radium Release from Soil Matrix to Groundwater

Upgradient soils in DPT 11 through DPT 13 were observed to contain higher levels of parent radionuclides and radium. However, groundwater adjacent to these soils in APMW-11 and APMW-12 did not contain appreciable radium. This suggests that the geochemical environment encountered in these upgradient locations is not favorable for radium release. Review of the geochemical environment indicates that APMW-11 and APMW-12 are located in a freshwater environment, which is in contrast to the naturally occurring saline/brackish environment in the downgradient monitoring wells. This supports the conclusion that the interaction of soils containing naturally occurring sources of radium with saline groundwater results in the release of radium to groundwater.

This conclusion is also supported by the soil and groundwater data obtained from the additional background wells. Four additional background wells were installed in the marsh geochemical environment in order to obtain background data from wells screened in groundwater with geochemical conditions similar to the geochemical environment downgradient of the former CCR unit. Analytical results from groundwater samples collected from these additional background monitoring wells are presented in **Table 2**. Relative to existing background wells (i.e., APMW-11 and APMW-12 with TDS of approximately 100 mg/L), the additional background wells have TDS concentrations ranging from 3,700 to 6,300 mg/L. Similarly, while the existing background wells are installed in an oxidizing environment (with an ORP range of 5.7 to 6.4 mV in March 2020), the additional background wells are installed in a reducing environment (with an ORP range of -264.9 to -173.4 mV in July 2020). The higher concentrations of TDS are indicative of saline or brackish groundwater geochemistry and the low ORP is indicative of a reducing geochemical environment in the additional background monitoring wells. Like the existing background wells, review of soil sample data collected when the additional background wells were installed (see Geosyntec, 2020b) indicates the presence

of naturally occurring uranium, thorium, and radium in the soil matrix. However, unlike groundwater in APMW-11 and APMW-12, concentrations of radium in groundwater in the additional background wells are up to 4.9 pCi/L, just below the GWPS of 5 pCi/L. The release of naturally occurring radium in the additional background wells serves as additional evidence for a radium release mechanism from soils due to saline groundwater in a reducing geochemical environment interacting with a soil matrix containing naturally occurring radium.

6.0 RADIUM IN ASH POREWATER

Ash porewater samples from the former CCR unit have lower concentrations of radium relative to downgradient groundwater samples from monitoring wells with radium SSLs. Statistical methods, as documented in this section, were employed to demonstrate that ash porewater from the former CCR unit cannot serve as the source of the radium SSLs observed in downgradient groundwater.

Radium concentrations in ash porewater samples collected in September 2019 ranged from 0.759 to 4.16 pCi/L. In contrast, radium concentrations in co-located samples from the underlying Unit 3 aquifer ranged from 4.37 to 6.37 pCi/L (**Table 4**).

The mean radium concentration in ash porewater was statistically lower than the mean radium concentration in the Unit 3 aquifer, as documented via a Welch's t-test (**Table 5**). Welch's t-test is used to evaluate if two datasets means are statistically different from one another, assuming each dataset is normally distributed, but that the variance between the datasets are not equal. The results of this statistical test indicate that, with 99% confidence, the mean radium concentration in the ash porewater is statistically lower than the mean radium concentration in the Unit 3 aquifer. As such, a release of porewater from the former CCR unit cannot account for the radium levels observed in groundwater downgradient of the former CCR unit. This observation supports the conclusion that radium in the Unit 2 soil matrix is released to Unit 3 groundwater through the combined processes of advective groundwater flow and molecular diffusion. Furthermore, the following naturally occurring radium release mechanisms observed at the Site likely contribute radium to downgradient groundwater: elevated groundwater salinity, a reducing groundwater geochemical environment, and/or low sulfate concentrations at select locations.

Radium concentration in ash porewater were below the GWPS of 5 pCi/L. To evaluate the likelihood that the mean radium concentration in ash porewater would be below the GWPS regardless of spatial location in the former CCR unit, a Student's t-test was performed. The Student's t-test assumes that the concentration of radium in ash porewater is normally distributed and that the ash and porewater are homogenous and in chemical equilibrium. These assumptions are supported by the fact that ash sluice water was: (i) distributed across the former CCR unit; (ii) was relatively consistent throughout the operational period of the former CCR unit; and (iii) has had many years to come into chemical equilibrium with the ash.

Results of the Student's t-test are presented in **Table 5** and indicate that, with 99% confidence, the mean radium concentration within in ash porewater is less than the GWPS. This indicates that based on the number of ash porewater samples (i.e., 15 samples including a duplicate) collected within the former CCR unit and the concentrations of total radium observed in those samples, the mean ash porewater radium concentration is less than 5 pCi/L with greater than 99% confidence. Hypothetically, if the ash porewater mean total radium concentration in the former CCR unit was equal to or greater than 5 pCi/L, then there would be less than a 1% probability of collecting 15 samples of ash porewater with a mean total radium concentration of less than 5 pCi/L. In addition, the 95% upper confidence limit (UCL95) of radium in ash porewater was calculated using ProUCL 5.1 (ProUCL; USEPA, 2015). ProUCL recommended using the 95% Chebyshev UCL, which estimated the UCL95 of radium in ash porewater to be approximately 4 pCi/L (i.e., below the GWPS of 5 pCi/L) (**Appendix C**).

These statistical observations support the conclusion that based on the observed radium concentration, ash porewater from the former CCR unit does not currently appear to be the source for radium SSLs in Unit 3.

7.0 CONCLUSIONS

This ASD demonstrates that naturally occurring sources of radium, and site-specific mechanisms, result in the radium SSLs observed in monitoring wells downgradient of the former CCR unit. Supporting conclusions include the following:

1. Uranium and thorium, radium's parent radionuclides, are naturally present in the soil matrix at Plant Watson.
 - a. Uranium and thorium are concentrated in a well-documented clay layer (Unit 2) that is observed across Plant Watson.
 - b. Soil sample analytical results indicate that uranium and thorium are naturally present in soils spatially upgradient and downgradient of the Site.
 - c. A positive correlation exists between parent and daughter radionuclides, indicating that uranium and thorium are naturally occurring sources of ^{226}Ra and ^{228}Ra , respectively, in the soil matrix.
2. Radium isotopes are observed in the soil matrix at Plant Watson and are released to groundwater due to unique geochemical conditions present in downgradient wells.
 - a. Levels of radium are concentrated in a well-documented clay layer (Unit 2) that is observed across Plant Watson.
 - b. Soil sample analytical results indicate that radium isotopes are present in both upgradient and downgradient soils at the Site. The presence of radium in upgradient locations demonstrates that radium occurs naturally in the soil matrix.
 - c. A positive correlation exists between thorium in the soil matrix and ^{228}Ra in groundwater, indicating that thorium is the likely source of ^{228}Ra in groundwater.
 - d. While naturally occurring uranium is contributing ^{226}Ra to downgradient groundwater (due to natural radioactive decay processes), naturally occurring uranium does not appear to account for all of the observed ^{226}Ra concentrations. Another natural source of ^{226}Ra (e.g., radium-substituted barite [barium sulfate]) is present in the soil matrix. This is readily apparent at APMW-1R and APMW-2 where the greatest concentrations of ^{226}Ra and barium in groundwater are encountered.
 - e. Literature indicates that elevated groundwater salinity and reducing conditions promotes the release of radium from soil matrices. Groundwater from monitoring wells with radium SSLs has elevated salinity (resembling the adjacent surface water which is naturally

- saline/brackish) and reducing conditions, making it conducive to radium release.
- f. A leaching test confirmed that radium from upgradient soil samples can be released in the presence of groundwater with elevated salinity. Therefore, the soil matrix serves as a naturally occurring source of radium to groundwater under the geochemical conditions encountered downgradient of the former CCR unit.
 - g. Geochemical modeling indicates that low concentrations of sulfate in groundwater can result in the release of ^{226}Ra from radium-substituted barite. The two downgradient monitoring wells (APMW-1R and APMW-2) with the lowest sulfate concentrations have the highest ^{226}Ra concentrations, which supports the conclusion that Ra-barite is a source of ^{226}Ra to groundwater.
3. The spatial distribution of radionuclides supports the conclusion that radionuclides occur naturally in the soil matrix at Plant Watson.
 - a. Soil sample analytical results indicate that levels of uranium, thorium, and radium in soil upgradient of the former CCR unit are similar or slightly greater than downgradient levels. These radionuclides are naturally present and sources of radium at Plant Watson.
 - b. Soil and groundwater sample results from the additional background well locations (APMW-13, APMW-14, APMW-15, and APMW-16), which are screened in a geochemical environment similar to downgradient monitoring wells (i.e., with an elevated salinity and reducing geochemical conditions), support the mechanism of radium release from upgradient soils due to interaction with saline groundwater. This is in contrast to the existing background monitoring wells APMW-11 and APMW-12 which were installed in a geochemical environment characterized by low salinity and oxidizing conditions, where radium concentrations were negligible. This further supports the conclusion that unique geochemical conditions downgradient of the former CCR unit, relative to upgradient, promote the release of radium to groundwater.
 4. Radium concentrations in ash porewater are significantly lower than radium concentrations in the underlying Unit 3 groundwater (statistically evaluated at the 99% confidence level). As such, a release of porewater from the former CCR unit cannot account for the radium levels observed in groundwater downgradient of the former CCR unit.

Collectively, this demonstration indicates that the downgradient geochemical environment is conducive for the release of naturally occurring radium to groundwater. Monitoring wells where SSLs are observed all possess geochemical conditions that promote the release of naturally occurring radium from the soil matrix to groundwater. Each location with a radium SSL is discussed below:

- The radium exceedance at APMW-1R is not the result of a release from the former CCR unit because:
 - The soil matrix upgradient and downgradient of the former CCR unit contains naturally occurring sources of radium parent radionuclides (i.e., uranium and thorium) that result in the formation of naturally occurring radium in the soil matrix.
 - The soil matrix upgradient and downgradient of the former CCR unit contains naturally occurring radium that can be released to groundwater due to geochemical conditions in downgradient monitoring wells that are not present in upgradient monitoring wells.
 - APMW-1R has an elevated TDS (4,500 mg/L), like the adjacent saline/brackish surface water, as compared to existing background wells (95-120 mg/L) and elevated TDS promotes release of radium to groundwater.
 - APMW-1R has a negative ORP (-131.6 mV) and reducing conditions are conducive to the release of radium to groundwater.
 - APMW-1R has relatively low sulfate concentrations (23 mg/L) and low sulfate concentrations promote the release of radium to groundwater.
- The radium exceedance at APMW-2 is not the result of a CCR release because:
 - The soil matrix upgradient and downgradient of the former CCR unit contains naturally occurring sources of radium parent radionuclides (i.e., uranium and thorium) that result in the formation of naturally occurring radium in the soil matrix.
 - The soil matrix upgradient and downgradient of the former CCR unit contains naturally occurring radium that can be released to groundwater

due to geochemical conditions in downgradient monitoring wells that are not present in upgradient monitoring wells.

- APMW-2 has an elevated TDS (4,400 mg/L), like the adjacent saline/brackish surface water, as compared to existing background wells (95-120 mg/L); elevated TDS promotes release of radium to groundwater.
- APMW-2 has a negative ORP (-23.8 mV) and reducing conditions are conducive to the release of radium to groundwater.
- APMW-2 has low sulfate concentrations (16 mg/L) and low sulfate concentrations promote release of radium to groundwater.
- The radium exceedance at APMW-3 is not the result of a CCR release because:
 - The soil matrix upgradient and downgradient of the former CCR unit contains naturally occurring sources of radium parent radionuclides (i.e., uranium and thorium) that result in the formation of naturally occurring radium in the soil matrix.
 - The soil matrix upgradient and downgradient of the former CCR unit contains naturally occurring radium that can be released to groundwater due to geochemical conditions in downgradient monitoring wells that are not present in upgradient monitoring wells.
 - APMW-3 has an elevated TDS (16,000 mg/L), like the adjacent saline/brackish surface water, as compared to existing background wells (95-120 mg/L) and elevated TDS promotes release of radium to groundwater.
 - APMW-3 has a negative ORP (-47.1 mV) and reducing conditions are conducive to the release of radium to groundwater.
- The radium exceedance at APMW-7 is not the result of a CCR release because:
 - The soil matrix upgradient and downgradient of the former CCR unit contains naturally occurring sources of radium parent radionuclides (i.e., uranium and thorium) that result in the formation of naturally occurring radium in the soil matrix.

- The soil matrix upgradient and downgradient of the former CCR unit contains naturally occurring radium that can be released to groundwater due to geochemical conditions in downgradient monitoring wells that are not present in upgradient monitoring wells.
- APMW-7 has an elevated TDS (6,900 mg/L), like the adjacent saline/brackish surface water, as compared to existing background wells (95-120 mg/L) and elevated TDS promotes release of radium to groundwater.
- APMW-7 has a negative ORP (-253 mV) and reducing conditions are conducive to the release of radium to groundwater.
- The radium exceedance at APMW-9 is not the result of a CCR release because:
 - The soil matrix upgradient and downgradient of the former CCR unit contains naturally occurring sources of radium parent radionuclides (i.e., uranium and thorium) that result in the formation of naturally occurring radium in the soil matrix.
 - The soil matrix upgradient and downgradient of the former CCR unit contains naturally occurring radium that can be released to groundwater due to geochemical conditions in downgradient monitoring wells that are not present in upgradient monitoring wells.
 - APMW-9 has an elevated TDS (5,400 mg/L), like the adjacent saline/brackish surface water, as compared to existing background wells (95-120 mg/L) and elevated TDS promotes release of radium to groundwater.
 - APMW-9 has a negative ORP (-1.03 mV) and reducing conditions are conducive to the release of radium to groundwater.

The combination of the above lines of evidence paired with the naturally occurring release mechanisms at each downgradient monitoring well with a radium SSL supports the conclusion that the radium SSLs observed in APMW-1R, APMW-2, APMW-3, APMW-7, and APMW-9 are from a source other than the former CCR unit.

8.0 REFERENCES

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TABLES

Table 1.
Summary of Soil Analytical Results for Combined Radium Alternate Source Demonstration Investigation
Plant Watson, Gulfport, Mississippi

Sample ID	Sample Date	Unit	Depth (ft bgs)	Uranium (mg/kg)	Thorium (mg/kg)	Ra 226 (pCi/g)	Ra 228 (pCi/g)	Combined Ra (pCi/g)
DPT-1-SS U2	4/20/2020	2	(22-24)	0.564	3.20	0.315	0.608	0.923
DPT-1-SS U3	4/20/2020	3	(38-40)	0.347	1.24	0.272	0.515	0.786
DPT-2-SS U2	4/21/2020	2	(26-27)	0.743	4.91	0.706	0.840	1.55
DPT-2-SS U3	4/21/2020	3	(37-38)	<0.0514	0.273	<0.00380	<0.158	<0.162
DPT-3-SS U2	4/21/2020	2	(24-25)	1.48	5.90	0.510	0.760	1.27
DPT-3-SS U3	4/21/2020	3	(29-30)	0.142	0.247	<0.0467	<0.144	<0.191
DPT-4-SS U2	4/21/2020	2	(15-16)	1.10	1.44	0.292	0.428	0.721
DPT-4-SS U3	4/21/2020	3	(28-29)	0.0523 J	0.108 J	<0.0385	<0.123	<0.162
DPT-5-SS U2	4/22/2020	2	(17-18)	0.384	4.06	0.307	<0.354	0.661
DPT-5-SS U3	4/22/2020	3	(23-24)	<0.0437	0.129 J	0.133	<0.238	<0.370
DPT-6-SS U2	4/22/2020	2	(11-12)	0.689	4.58	0.475	0.767	1.24
DPT-6-SS U3	4/22/2020	3	(25-26)	<0.0439	0.117 J	<0.0201	<0.00443	<0.0245
DPT-7-SS U2	4/23/2020	2	(18-19)	0.418	4.11	0.433	0.547	0.98
DPT-7-SS U3	4/23/2020	3	(27-28)	0.0474 J	0.300	0.333	0.406	0.739
DPT-8-SS U2	4/24/2020	2	(25-26)	0.365	1.89	0.311	0.439	0.751
DPT-8-SS U3	4/24/2020	3	(39-40)	0.108 J	0.818	0.364	0.48	0.844
DPT-9-SS U2	4/24/2020	2	(27-28)	0.451	3.76	0.459	0.497	0.956
DPT-9-SS U3	4/24/2020	3	(32-33)	0.0491 J	0.159 J	<0.0899	<0.302	<0.392
DPT-10-SS U2	4/24/2020	2	(22-23)	0.259	2.37	0.428	0.618	1.05
DPT-10-SS U3	4/24/2020	3	(25-26)	<0.0456	0.171 J	<0.0708	<0.125	<0.196
DPT-11-SS U2	4/27/2020	2	(17-33)	2.27	6.12	1.02	1.02	2.04
DPT-11-SS U3	4/27/2020	3	(36-48)	0.817	0.988	0.162	<0.112	<0.275
DPT-12-SS U2	4/27/2020	2	(24-34)	0.984	4.47	0.773	0.502	1.28
DPT-12-SS U3	4/27/2020	3	(35-48)	<0.0441	0.118 J	<0.0734	<0.179	<0.253
DPT-13-SS U2	4/28/2020	2	(28-40)	1.06	6.37	0.491	<0.275	0.767
DPT-13-SS U3	4/28/2020	3	(44-52)	<0.0464	0.110 J	<0.0634	<0.00751	<0.0709

Notes:

1. Ra indicates radium
2. U2 indicates Unit 2 and U3 indicates Unit 3
3. DPT indicates direct push technology; SS indicates soil sample
4. ft bgs indicates feet below ground surface; -- indicates not measured
5. J indicates result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value; < indicates the result was less than the sample detection limit
6. mg/kg indicates milligrams per kilogram; pCi/g indicates picocuries per gram

Table 2.
Summary of Analytical Results for Additional Background Wells
Plant Watson, Gulfport, Mississippi

Sample ID	Sample Date	Matrix	Sample Depth (ft bgs)	Chloride (mg/L)	Combined Ra (pCi/L or pCi/g)	Ra 226 (pCi/L or pCi/g)	Ra 228 (pCi/L or pCi/g)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)	Thorium (mg/kg)	Uranium (mg/kg)
APMW-13	7/21/2020	Unit 3 Groundwater	NA	1470	2.72	1.13	1.6	802B	3760	-	-
	6/16/2020	Unit 2 Soil	7.5-11	-	0.506	0.322	<0.184U	-	-	1.72	0.246
	6/16/2020	Unit 3 Soil	11-21	-	0.394	0.224	<0.17U	-	-	0.496	0.114
APMW-14	7/21/2020	Unit 3 Groundwater	NA	2920	4.86	1.82	3.05	713B	6350	-	-
	6/16/2020	Unit 2 Soil	5.5-8.5	-	0.393	0.174	<0.219U	-	-	0.717	0.327
	6/16/2020	Unit 3 Soil	8.5-22.5	-	0.517	0.226	<0.29U	-	-	0.734	0.184
APMW-15	7/21/2020	Unit 3 Groundwater	NA	2910	3.28	1.44	1.84	52.9B	5400	-	-
	6/17/2020	Unit 2 Soil	18.5-19.5	-	0.901	0.406	0.495	-	-	3.09	0.891
	6/17/2020	Unit 3 Soil	19.5-26	-	1.34	0.685	0.657	-	-	4.52	0.564
APMW-16	7/30/2020	Unit 3 Groundwater	NA	2830	2.38	1.09	1.3	33.4B	5020	-	-
	6/17/2020	Unit 2 Soil	12-14.5	-	0.993	0.415	0.578	-	-	3.54	1.72
	6/17/2020	Unit 3 Soil	14.5-25	-	0.468	0.208	<0.26U	-	-	1.84	0.538
APMW-16 DUP	7/30/2020	Unit 3 Groundwater	NA	2800	2.53	0.947	1.58	34.7B	5480	-	-

Notes:

1. mg/L indicates milligrams per liter (mg/L)
2. ft bgs indicates feet below ground surface
3. mg/kg indicates milligrams per kilogram
4. Radium isotopes and combined radium units are picocuries per liter (pCi/L) for groundwater samples and picocuries per gram (pCi/g) for soil samples
5. - indicates the constituent was not analyzed
6. NA indicates not applicable
7. U indicates the analyte was analyzed for but not detected
8. B indicates the compound was found in the blank and sample
9. DUP indicates duplicate sample

Table 3.
Summary of Leaching Procedure Analytical Results for Radium Alternate Source Demonstration Investigation
Plant Watson, Gulfport, Mississippi

Sample ID	Sample Date	Uranium (mg/L)	Thorium (mg/L)	Ra 226 (pCi/L)	Ra 228 (pCi/L)	Combined Ra (pCi/L)
DPT-11-SS-U2 Leachate	4/27/2020	<0.0004	<0.0009	3.66	2.44	6.11
APMW-5 Groundwater	4/21/2020	<0.0004	<0.0009	0.351	3.02	3.37

Notes:

1. < indicates the result was less than the sample detection limit
2. Ra indicates radium
3. mg/L indicates milligrams per liter; pCi/L indicates picocuries per liter

Table 4.
Summary of Analytical Results from Interior Piezometers
Plant Watson, Gulfport, Mississippi

Sample ID	Sample Date	Unit	Combined Ra (pCi/L)	Sulfate (mg/L)	Chloride (mg/L)	Total Dissolved Solids (mg/L)
1S-GS	9/19/2019	Ash	0.787	690	5000	5300
2S-GS	9/19/2019	Ash	0.960	1300	5600	10000
3S-GS	9/20/2019	Ash	0.759	650	2700	2300
4A-GS	9/20/2019	Ash	3.28	370	1900	3400
4B-GS	9/20/2019	Ash	0.921	800	2000	4300
5S-GS	9/23/2019	Ash	1.11	1200	6300	6900
6S-GS	9/23/2019	Ash	4.16	480	4500	5000
1D-GS	9/19/2019	Unit 3	4.37	67	3400	5800
2D-GS	9/19/2019	Unit 3	5.90	140	4100	5800
4D-GS	9/20/2019	Unit 3	4.45	1000	10000	9000
5D-GS	9/23/2019	Unit 3	5.99	1000	2900	4700
6D-GS	9/20/2019	Unit 3	6.37	130	3100	5400
7D-GS	9/23/2019	Unit 3	5.37	860	5200	5900

Notes:

1. pCi/L indicates picocuries per liter; mg/L indicates milligrams per liter

Table 5.
Student T-test and Welch's T-test Results for Radium in Former CCR Unit Porewater and Unit 3 Groundwater
Plant Watson, Gulfport, Mississippi

Parameter	Combined Radium in Ash Porewater (Student's T)	Combined Radium in Unit 3 (Student's T)	Combined Radium (Welch's T)
Sample Count (n)	15	12	--
Sample Mean (x)	1.687	4.908	--
Standard Deviation (d)	1.153	1.028	--
Population Mean (u)	5	5	--
degrees of freedom (v)	14	11	24.662
t	-11.13	-0.31	-7.66
P(T<t)	1.00E-08	0.38	3.00E-08
Summary of Sample Means	99% confidence that combined radium is < GWPS	62% confidence that combined radium is < GWPS	99% confidence combined radium in ash is statistically lower than Unit 3

Notes:

1. Student's T calculation $t = \frac{x - u}{\frac{d}{\sqrt{n}}}$

2. Welch's T-test calculation $t = \frac{x_1 - x_2}{\sqrt{\frac{d_1^2}{n_1} + \frac{d_2^2}{n_2}}}$ $v = \frac{\left(\frac{d_1^2}{n_1} + \frac{d_2^2}{n_2}\right)^2}{\frac{d_1^4}{n_1^2(n_1 - 1)} + \frac{d_2^4}{n_2^2(n_2 - 1)}}$

3. Population mean is the groundwater protection standard (GWPS).

4. -- indicates these values are the same as those used in the Student's T test

5. CCR indicates coal combustion residuals

FIGURES



- Legend**
- Former CCR Unit Boundary
 - - - RaceTrac Gas Station Property Boundary
 - - - Plant Watson Property Boundary

Notes:
1. Property boundary georeferenced from Southern Company Services, 2020. Groundwater Monitoring Report. Mississippi Power Company. Plant Watson Ash Pond. 21 February.
2. CCR - Coal Combustion Residuals
3. Aerial Source: Google Earth Imagery 3/18/2019



0 1,000 Feet

Site Location Map

Plant Watson
Gulfport, Mississippi

Geosyntec
consultants

Pensacola, FL

December 2020

Figure

1



Legend

APMW-1 CCR Monitoring Well installed in

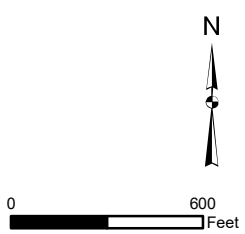
APMW-13 Background CCR Monitoring Well Installed in 2020

APMW-11 Background CCR Monitoring Well Installed in 2019

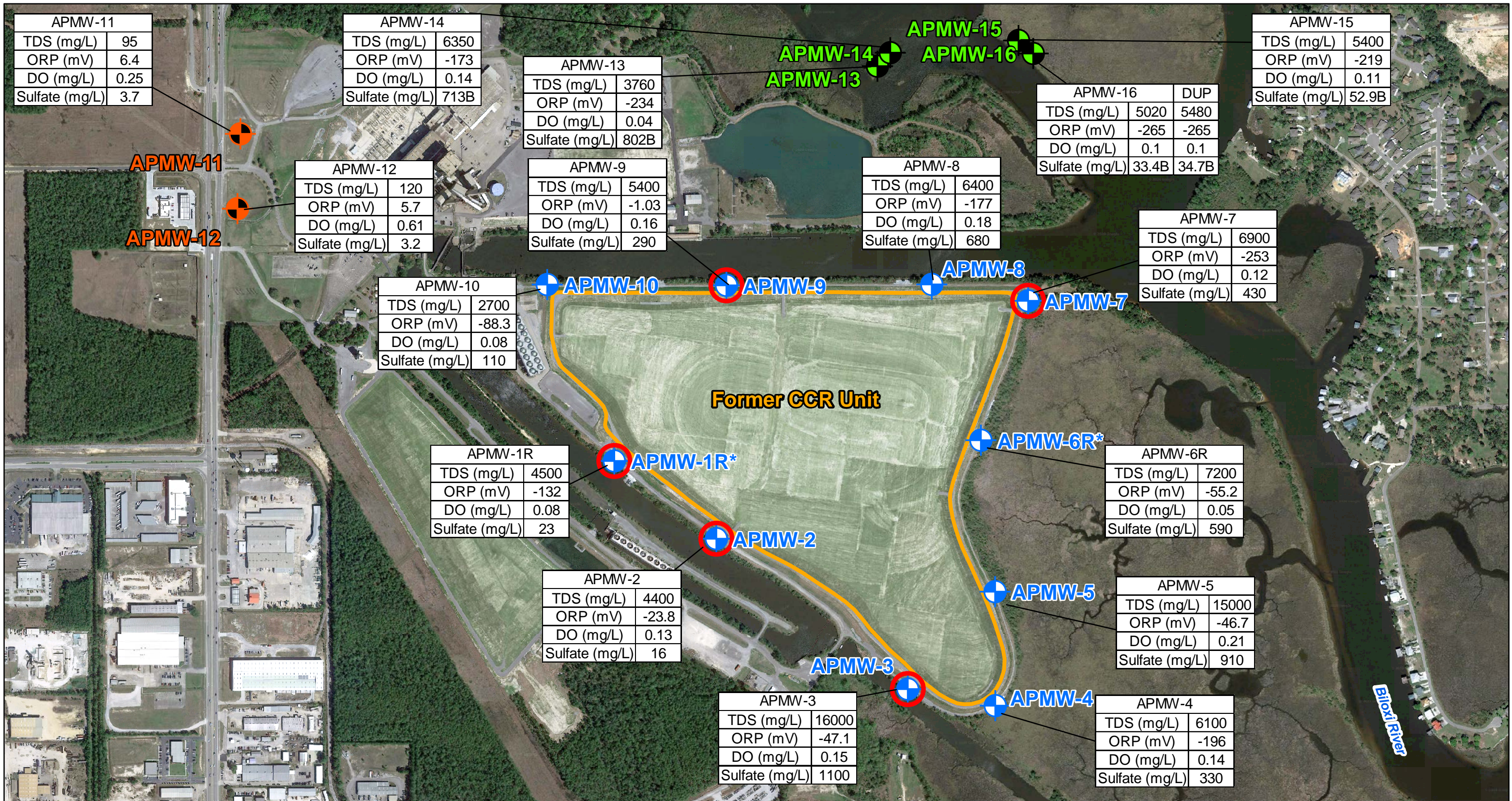
Former CCR Unit Boundary

Notes:

- * - APMW-1R and APMW-6R are replacement wells installed in 2019
- CCR - Coal Combustion Residuals
- Aerial Source: Google Earth Imagery 3/18/2019



CCR Monitoring Well Network Plant Watson Gulfport, Mississippi	
Pensacola, FL	December 2020
Figure 2	



Legend

- APMW-1** CCR Monitoring Well installed in 2016*
- APMW-13** Background CCR Monitoring Well Installed in 2020
- APMW-11** Background CCR Monitoring Well Installed in 2019
- Former CCR Unit Boundary
- CCR Monitoring Well with Radium SSL

Notes:

1. SSL - Statistically Significant Level
2. mg/L - milligrams per liter
3. mV - millivolts
4. TDS - Total Dissolved Solids
5. ORP - Oxidation Reduction Potential
6. DO - Dissolved Oxygen
7. B - Compound detected in blank and sample.
8. DUP - Duplicate sample
9. Data presented was collected March 2020 for APMW-1R through APMW-12 and July 2020 for APMW-13 through APMW-16.
10. * - APMW-1R and APMW-6R are replacement wells installed in 2019.
11. CCR - Coal Combustion Residuals
12. Aerial Source: Google Earth Imagery 3/18/2019



Summary of Key Groundwater Geochemical Parameters

Plant Watson
Gulfport, Mississippi

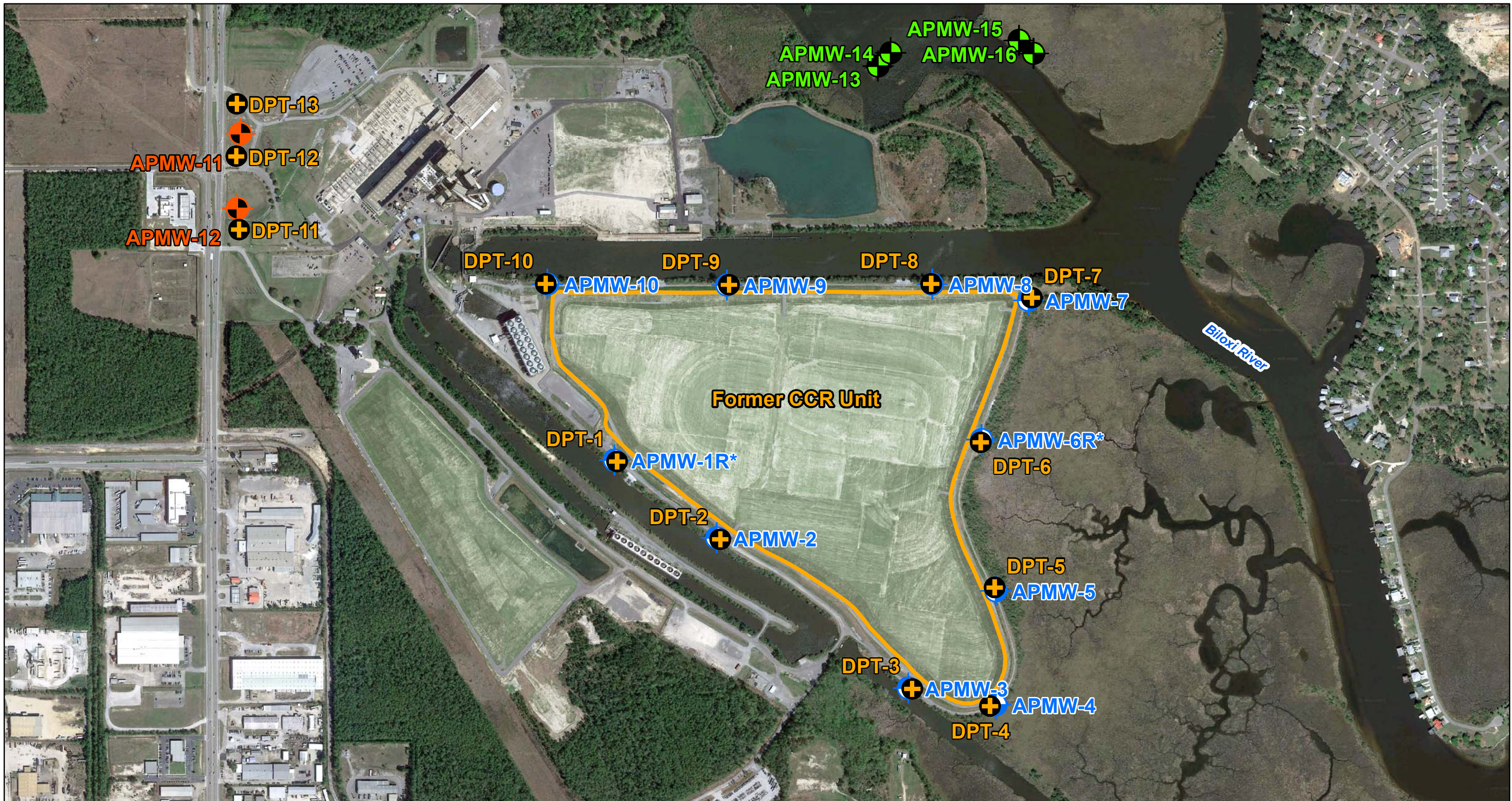
Geosyntec
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Figure






3

Pensacola, FL

December 2020



Legend

- APMW-1**  CCR Monitoring Well installed in 2016*
- APMW-13**  Background CCR Monitoring Well Installed in 2020
- APMW-11**  Background CCR Monitoring Well Installed in 2019
- DPT-4**  DPT Boring
-  Former CCR Unit Boundary

- Notes:
1. DPT - Direct Push Technology
 2. * - APMW-1R and APMW-6R are replacement wells installed in 2019.
 3. CCR - Coal Combustion Residuals
 4. Aerial Source: Google Earth Imagery 3/18/2019



DPT Boring Locations

Plant Watson
Gulfport, Mississippi

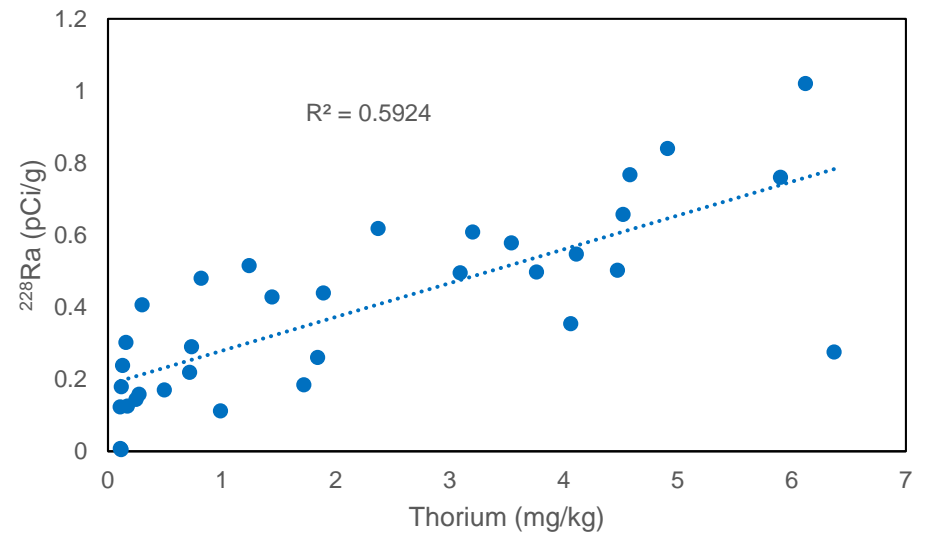
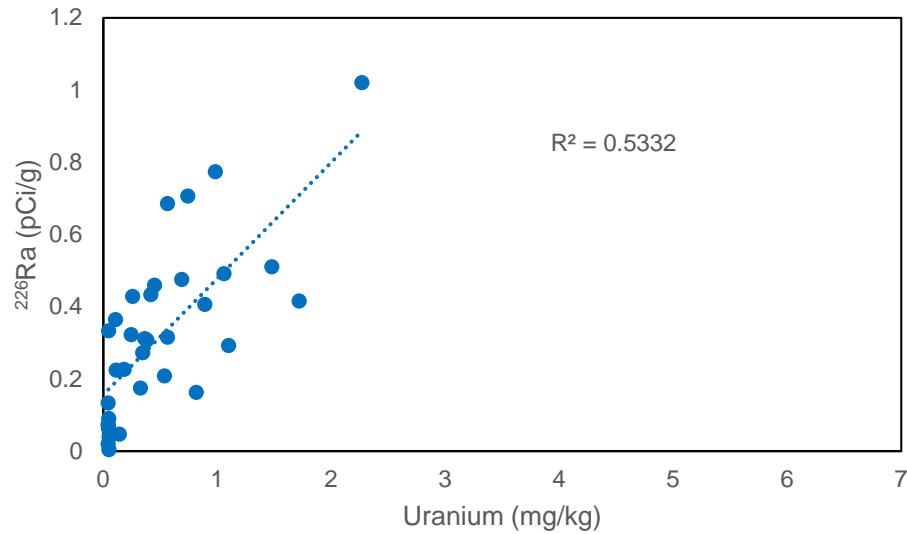
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Pensacola, FL

December 2020

Figure

4



Notes:

1. Measured soil data were collected from Units 2 and 3 during the April 2020 DPT investigation and from the additional background wells installed and sampled in June 2020.
2. mg/kg is milligrams per kilogram
3. pCi/g is picocuries per gram
4. Uranium is the parent radionuclide for ^{226}Ra and Thorium is the parent radionuclide for ^{228}Ra

Correlation of ^{226}Ra to Uranium and ^{228}Ra to Thorium in the Soil Matrix

Plant Watson
Gulfport, Mississippi

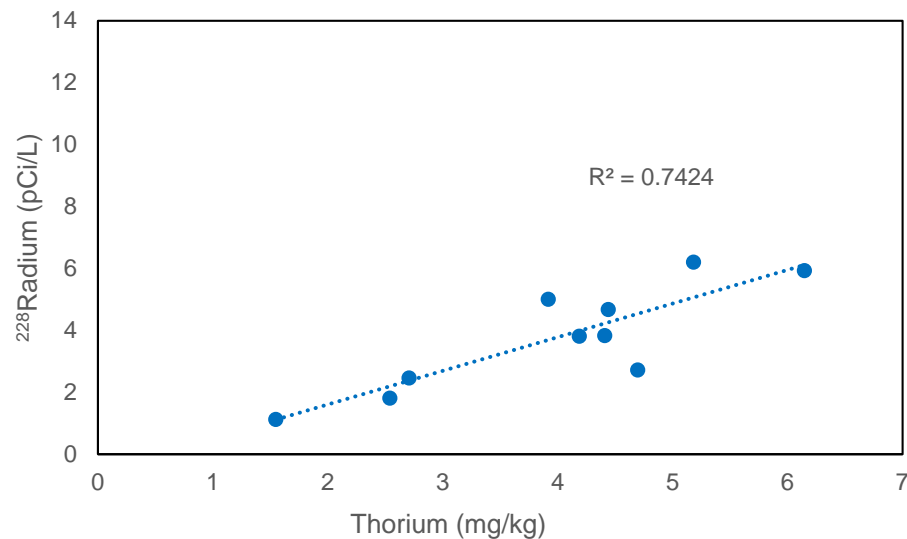
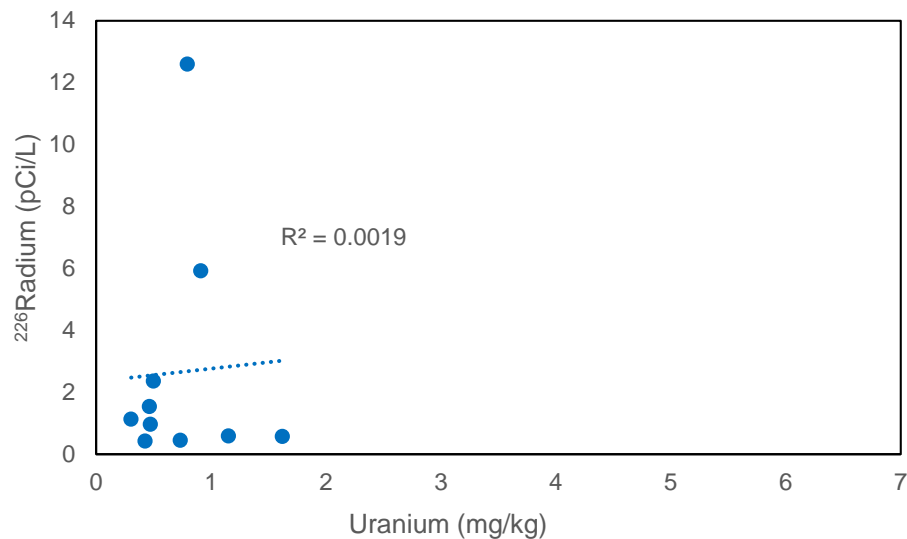
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Pensacola, FL

December 2020

Figure

5



Notes:

1. Uranium and thorium soil data were collected from Units 2 and 3 downgradient of the former CCR unit (DPT-1 through DPT-10) during the 2020 DPT investigation
2. Radium isotopic data were collected from groundwater monitoring wells collocated with DPT borings (APMW-1R through APMW-10) during the March 2020 sampling event
3. mg/kg indicates milligrams per kilogram
4. pCi/L indicates picocuries per liter
5. Uranium is the parent radionuclide for ²²⁶Radium and Thorium is the parent radionuclide for ²²⁸Radium

Correlation of Radium Isotopes in Groundwater to Parent Radionuclides in the Soil Matrix

Plant Watson
Gulfport, Mississippi

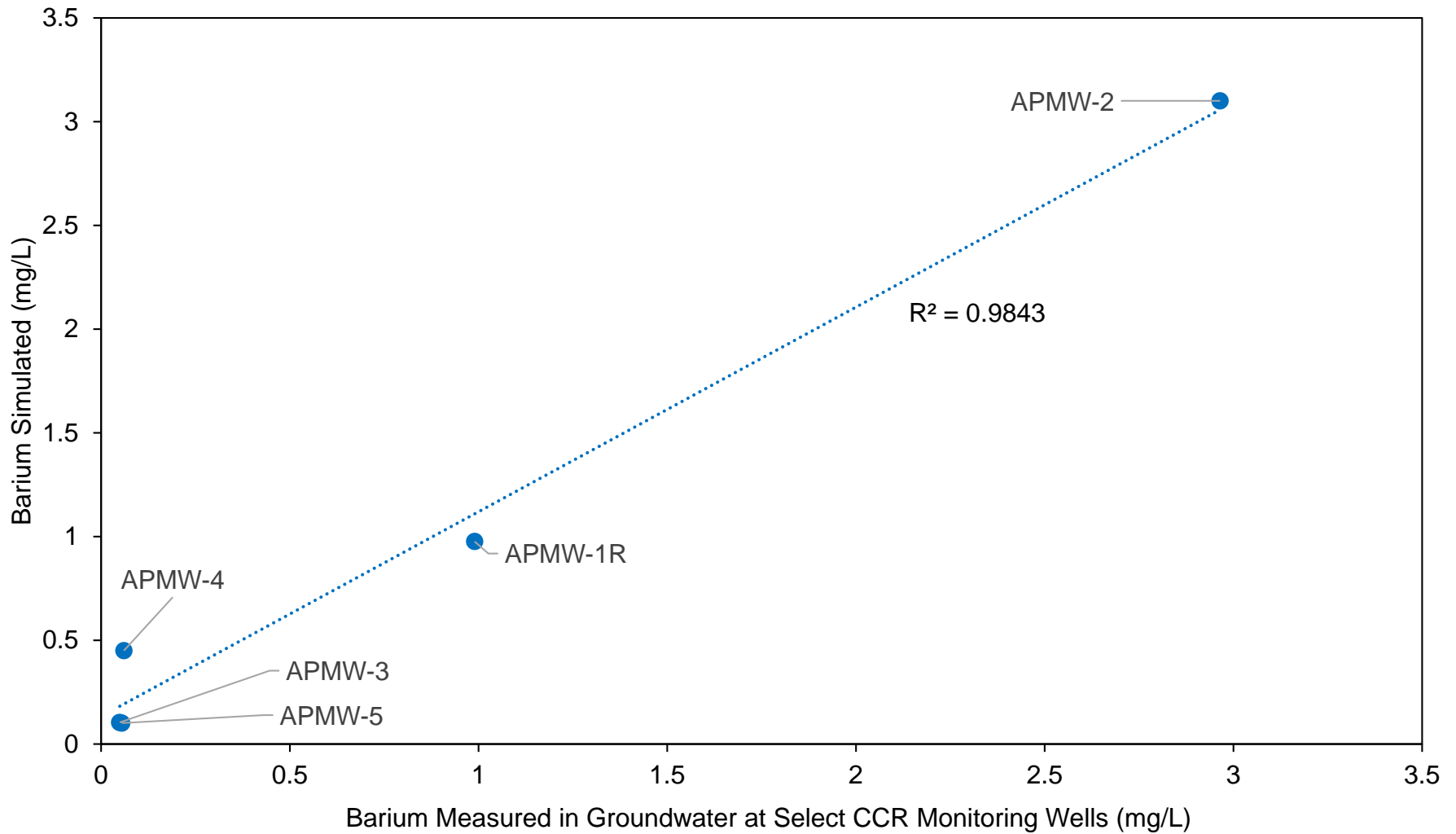
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Figure

6

Pensacola, FL

December 2020



Notes:

1. Simulated barium concentrations based on geochemical model completed in PHREEQC Version 3
2. Measured groundwater data are averages from sampling events completed between 2018 and 2020.
3. CCR is coal combustion residuals
4. mg/L is milligrams per liter
5. Source: Geosyntec, 2020. Barium Alternate Source Demonstration. Plant Watson. August.

Correlation of Barium in Select CCR Monitoring Wells to Modeled Barium Concentrations

Plant Watson
Gulfport, Mississippi

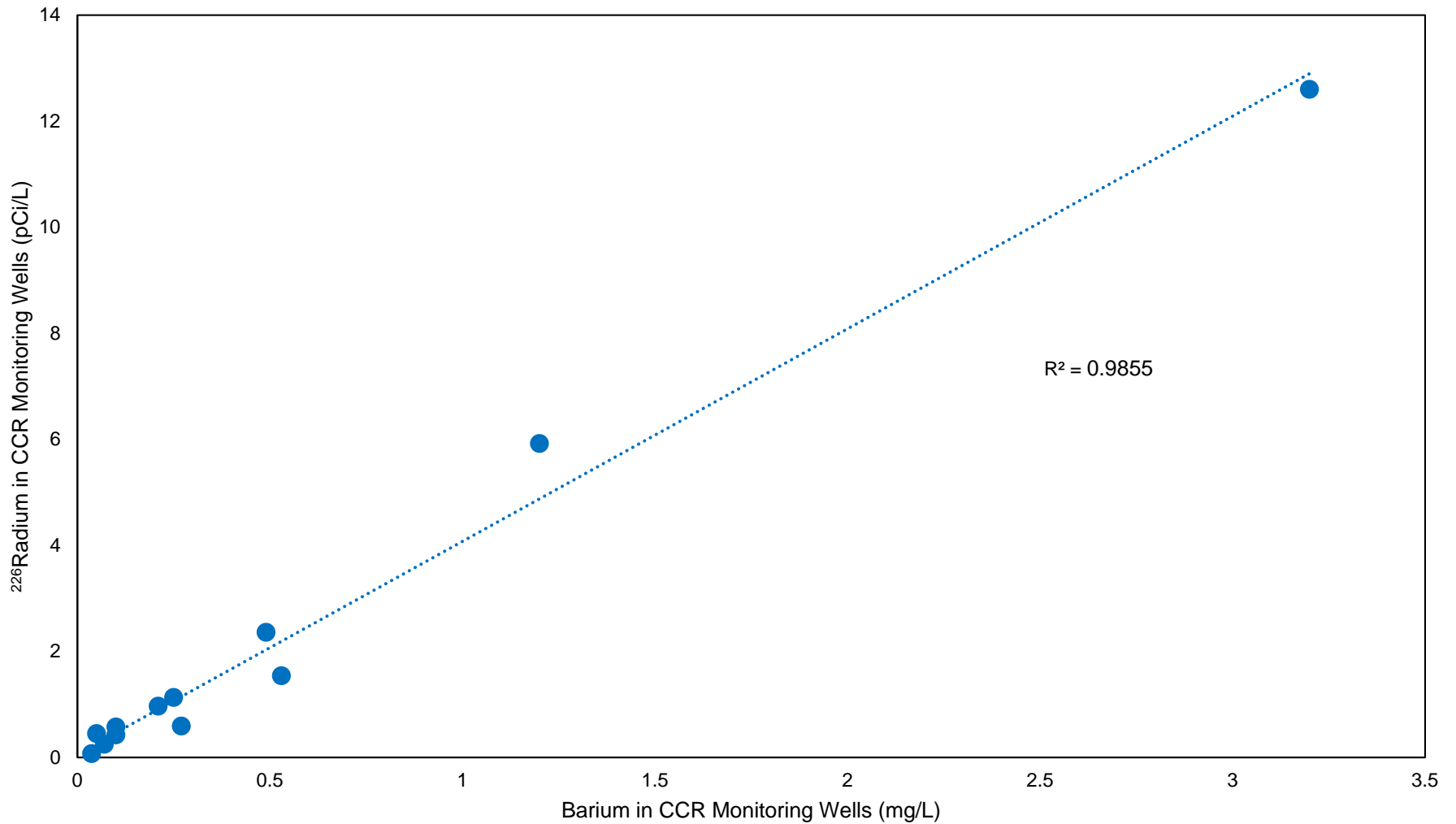
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Pensacola, FL

December 2020

Figure

7



Notes:

1. Measured groundwater data is from all downgradient monitoring wells (APMW-1R through APMW-10) from the sampling event completed in March 2020
2. CCR is coal combustion residuals
3. mg/L is milligrams per liter
4. pCi/L is picocuries per liter

Correlation of Barium to ²²⁶Radium in CCR Monitoring Wells

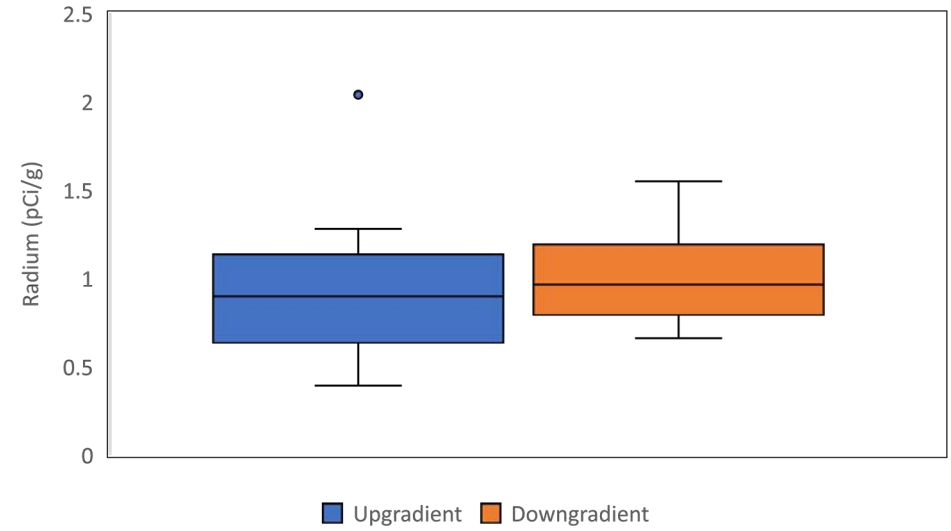
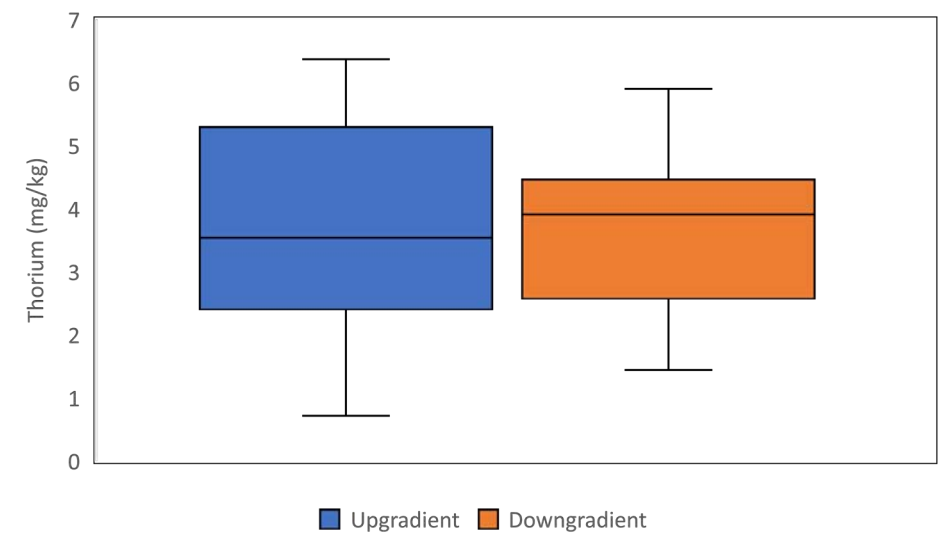
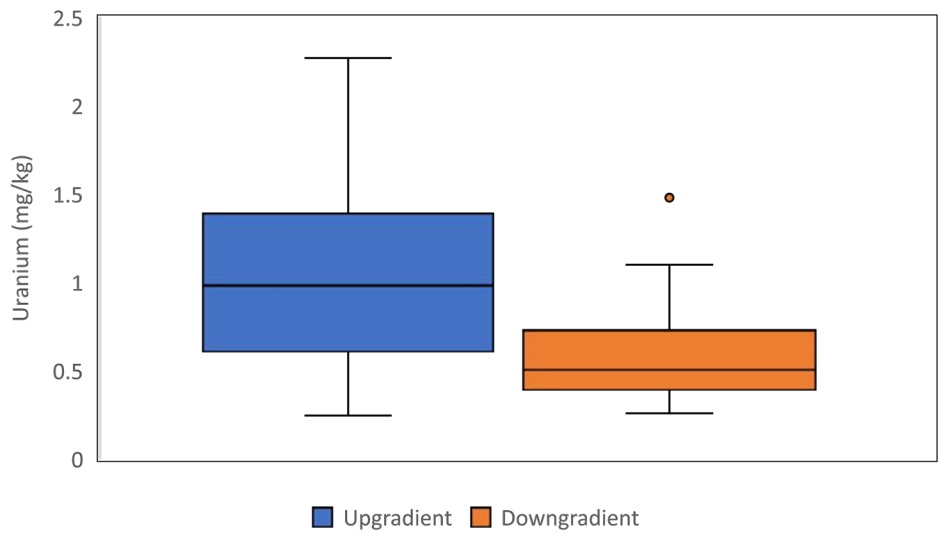
Plant Watson
Gulfport, Mississippi

Geosyntec
consultants

Pensacola, FL

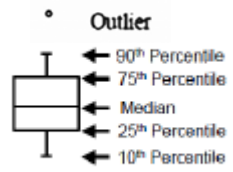
December 2020

**Figure
8**



Notes:

1. Upgradient wells include APMW-11 through APMW-16
2. Downgradient wells include APMW-1R through APMW-10
3. Soil data presented were collected from Unit 2 during the April 2020 DPT investigation
4. mg/kg is milligrams per kilogram
5. pCi/g is picocuries per gram
6. Radium is the combination of ²²⁶Radium and ²²⁸Radium


































<p>Upgradient versus Downgradient Concentrations of Radionuclides in the Soil Matrix</p> <p>Plant Watson Gulfport, Mississippi</p>	
Pensacola, FL	December 2020
<p>Figure</p> <p>9</p>	

APPENDIX A

Boring Logs

BORING AND WELL LOG LEGEND

LITHOLOGY	WATER LEVEL	WELL/BORING COMPLETION	SAMPLE TYPE	DESCRIPTION
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				ASPHALT
				CONCRETE
				FILL
				TOPSOIL
				COBBLES
				IGNEOUS Rock
				METAMORPHIC Rock
				SEDIMENTARY Rock
				Well-graded GRAVEL (GW)
				Poorly graded GRAVEL (GP)
				Silty GRAVEL (GM)
				Clayey GRAVEL (GC)
				Well-graded GRAVEL with silt (GW-GM)
				Poorly graded GRAVEL with silt (GP-GM)
				Well-graded GRAVEL with clay (GW-GC)
				Poorly graded GRAVEL with clay (GP-GC)
				Well-graded SAND (SW)
				Poorly graded SAND (SP)
				Silty SAND (SM)
				Clayey SAND (SC)
				Well-graded SAND with silt (SW-SM)
				Poorly graded SAND with silt (SP-SM)
				Well-graded SAND with clay (SW-SC)
				Poorly graded SAND with clay (SP-SC)
				SILT (ML)
				Lean CLAY (CL)
				Organic SOIL (OL)
				Elastic SILT (MH)
				Fat CLAY (CH)
				Organic SOIL (OH)
				PEAT (PT)
				Volume Descriptors: Trace = <5% Few = 5-10% Little = 15-25% Some = 30-45% Mostly = >=50%
				Water Level During Drilling Water Level at End of Drilling/in Completed Well
				Cap Riser Screen Cement Bentonite Grout Bentonite Seal Filter Pack Backfill
			GR	Grab
			EN	Encore
			SS	Split Spoon
			SH	Shelby Tube
			CO	Core Barrel
			DP	Direct Push
			ID	Lab Sample and ID

NOTES:

Drilling Start Date: 04/20/2020	Boring Depth (ft): 40
Drilling End Date: 04/20/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 24.2
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 23.40
Logged By: N. Quick	North, East (Y,X): 339928.66, 924501.57

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			
5						
10						
15						
16			(16') No recovery.			
17			(17') CLAY (CL); gray (4/5B), soft, high plasticity, PP=0.75.			
17.7			(17.7') SILT (ML); tan (10YR 7/8), trace clay, non-cohesive to slightly cohesive.			
18			(18') SILTY CLAY (CL); brown (10YR 4/4), soft, medium plasticity.			
18.5			(18.5') SILT (ML); brown (10YR 5/6) with black and gray (10YR 7/1), dry, trace clay, non-cohesive.			
19.5			(19.5') CLAY (CL); gray and red mottling (2.5YR 7/4), soft, high plasticity, PP<0.5.	1574	20	
20			(20') No recovery.			
20.6			(20.6') CLAY (CL); gray and red mottling (2.5YR 7/4), soft, high plasticity, PP<0.5.			
21.2			(21.2') SILTY CLAY (CL); light brown (2.5Y 5/4), moist, high plasticity.	1894	22	
21.9			(21.9') SILTY CLAY (CL); gray (5Y 7/1) and light brown (5Y 8/4), moist, medium plasticity.			
23.7			(23.7') SILTY CLAY (CL); brown (2.5Y 5/3), moist, low plasticity.	962	24	
24			(24') Same as above.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 17'-24' and 25'-40'.

Drilling Start Date: 04/20/2020	Boring Depth (ft): 40
Drilling End Date: 04/20/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 24.2
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 23.40
Logged By: N. Quick	North, East (Y,X): 339928.66, 924501.57

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25			(24.2') ORGANIC CLAY (OH); black (10YR 2/1), wet, medium plasticity. <i>(continued)</i>			
			(25.1') SAND (SP); GLEY 1 4/N, wet, poorly graded, fine grained.	1099	26	
			(25.7') With tree roots from 25.7-25.9 feet.			
			(27.4') SAND (SP); GLEY 1 6/N, wet, poorly graded, fine grained.	902	28	-5
			(28') SAND (SP); GLEY 1 7/N and 8/N, wet, poorly graded, fine grained.			
30				1255	30	
			(32') SAND (SP); GLEY 1 6/N, wet, moderately graded, fine-medium grained.	829	32	-10
				1023	34	
35			(34.9') SILTY CLAY (CL); dark gray (10YR 3/1), wet, high plasticity.			
			(35.7') SILT (ML); dark gray (2.5Y 5/1), moist, trace clay.	1227	36	
			(36') Same as above.			
			(37.8') SANDY SILT (ML); (5Y 5/1), wet, moderately graded, fine grained.	1682	38	-15
			(38.6') SAND (SP); (10YR 6/1), wet, poorly graded, fine grained.			
40			(39.4') Black organics.			
			(39.5') SAND (SP); white (5Y 7/1), wet, poorly graded, fine grained.			
			(40') Boring terminated.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 17'-24' and 25'-40'.

Drilling Start Date: 04/21/2020	Boring Depth (ft): 44
Drilling End Date: 04/21/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20.8
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 21.15
Logged By: N. Quick	North, East (Y,X): 339426.77, 925166.58

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			20
5						15
10						10
15						5
16'			(16') No recovery.			5
17'			(17') SILTY CLAY (CL); black (2.5Y 2.5/1), moist, soft, high plasticity.	157,NA,NA	17	17
17.8'			(17.8') SILTY CLAY (CL); gray (5Y 6/1), moist, soft, high plasticity.	540,124,340	18	18
17.9'			(17.9') SILT (ML); black (2.5Y 4/1), wet, cohesive.	370,278,129	19	19
18.2'			(18.2') CLAY (CL); brown (10YR 7/8) and gray (2.5Y 7/1), soft, high plasticity, PP=1.5.	287,418,344	20	20
19.5'			(19.5') SILT (ML); dark gray (10YR 3/1), moist, cohesive.	440,229,314	21	0
20'			(20') No recovery.			21
20.4'			(20.4') CLAY (CL); brown (10YR 7/8) and gray (2.5Y 7/1), soft, high plasticity, PP=1.5.	240,NA,314	22	22
20.8'			(20.8') CLAYEY SILT (ML); gray (10YR 7/1), wet, trace clay, cohesive.	310,120,97	23	23
22'			(22') CLAY (CL); brown (2.5Y 6/4), soft, high plasticity, PP>0.5.	NA,NA,NA	24	24
22.9'			(22.9') SILT (ML); black, with organics and trace roots.			
23.4'			(23.4') CLAY (CL); black (10YR 2/1), soft, high plasticity, PP>0.5.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 19'-31' and 31'-40'.

Drilling Start Date: 04/21/2020	Boring Depth (ft): 44
Drilling End Date: 04/21/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20.8
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 21.15
Logged By: N. Quick	North, East (Y,X): 339426.77, 925166.58

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25			(24') No recovery.	NA,NA,NA	25	
			(24.7') CLAY (CL); black (10YR 2/1), soft, high plasticity, PP>0.5. (continued)	270,568,258	26	-5
			(26.2') CLAY (CL); gray (10YR 5/1), wet, soft, high plasticity, PP=0.5-1.0.	170,384,573	27	
			(28') No recovery.	NA,NA,NA	28	
			(28.6') CLAY (CL); gray (2.5Y 5/1), wet, soft, high plasticity, PP=1.0.	294,266,279	29	
30				204,NA,201	30	
			(31.1') SAND (SP); light brown (10YR 6/4), wet, moderately graded, fine-medium grained.	159,233,242	31	-10
			(32') Same as above.	206,293,277	32	
				305,245,NA	33	
				200,195,NA	34	
35			(35.3') SAND (SP); light gray (2.5Y 7/1), wet, moderately graded, fine-medium grained.	36,67,158	35	
			(36') No recovery.	168,102,117	36	-15
			(36.6') CLAY (CL); green (5GY 3/4), soft, high plasticity, PP=1.25.	355,253,227	37	
			(36.8') SAND (SP); gray (5Y 6/1), wet, poorly graded, fine grained.	NA,NA,150	38	
			(37.8') SAND (SP); white (10YR 8.5/1), wet, moderately graded, fine-medium grained.	174,NA,102	39	
40			(40') CLAY (CL); green (5GY 3/4), wet, soft, high plasticity, trace silt.	72,94,86	40	
				102,84,97	42	-20

(44') Boring terminated.

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
Composite samples collected from the following intervals were submitted for laboratory analysis: 19'-31' and 31'-40'.

Drilling Start Date: 04/21/2020	Boring Depth (ft): 36
Drilling End Date: 04/21/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 12
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 7.71
Logged By: N. Quick	North, East (Y,X): 338461.59, 926407.78

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			
5						5
10						0
12			(12') SAND (SP); white (10YR 9.5/1), wet, poorly graded, fine grained, well-rounded.	218,208,171	12	-5
13				352,245,NA	13	
14				233,570,208	14	
15				284,235,204	15	
16			(16') SAND (SP); tan (2.5Y 7/6), wet, poorly graded, fine-medium grained, well-subrounded.	160,217,263	16	
17			(17') SAND (SP); light brown (2.5Y 6/8), wet, moderately graded, fine-medium grained, well-subrounded.	178,124,168	17	-10
18				203,178,192	18	
19			(19.1') SAND (SP); light gray (2.5Y 7/1), wet, moderately graded, fine-medium grained, subrounded.	116,74,158	19	
20			(20') No recovery.	390,428	20	
21			(20.5') CLAY (CL); dark gray (5Y 5/1), wet, soft, high plasticity, with wood fragments, PP 0.5.	211,204,NA	21	-15
22				305,368,142	22	
23				394,196	23	
24			(23.4') SAND (SP); tan (2.5Y 7/6), wet, poorly graded, fine grained, subrounded.	318,264	24	
25			(23.5') CLAY (CL); dark gray (5Y 5/1), wet, soft, high plasticity, with wood fragments, PP 0.5.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 20'-25' and 25'-31.5'.

Drilling Start Date: 04/21/2020	Boring Depth (ft): 36
Drilling End Date: 04/21/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 12
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 7.71
Logged By: N. Quick	North, East (Y,X): 338461.59, 926407.78

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25			(24') Same as above-dark gray clay with tree roots.	174,15,240	25	
			(25') SAND (SP); oxidized orange (7.5YR 6/8), wet, poorly graded, fine grained, well-rounded, sulfur odor.	142,201,161	26	
			(25.2') SAND (SP); brown (10YR 6/4), wet, moderately graded, fine-medium grained, subrounded, sulfur odor.	172,137,215	27	
			(27') SAND (SP); white (10YR 9.5/1), wet, moderately graded, fine-medium grained, subrounded, sulfur odor.	162,204,162	28	-20
			(27.5') SAND (SP); tan (2.5Y 7/6), wet, moderately graded, medium-fine grained, subrounded, sulfur odor.	159,487,339	29	
30			(28') Same as above.	218,214,181	30	
			(29') SAND (SP); dark gray (2.5Y 3/1), wet, well-graded, fine-coarse grained, subrounded, sulfur odor.	156,205,401,202	31	
			(31.5') SILTY CLAY (CL); green (5GY 5/2).	282,314,170	32	-25
			(33') No recovery.			

(36') Boring terminated.

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
Composite samples collected from the following intervals were submitted for laboratory analysis: 20'-25' and 25'-31.5'.

Drilling Start Date: 04/21/2020	Boring Depth (ft): 36
Drilling End Date: 04/21/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 16.5
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 13.15
Logged By: N. Quick	North, East (Y,X): 338350.18, 926908.55

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			
			(12') No recovery.			
			(13.3') SAND (SP); tan (2.5Y 7/4), moist, fine grained.	121,235,184	13	0
			(14.3') CLAY (CL); dark gray (2.5Y 4/1), soft, high plasticity, PP>0.5.	NA,NA,NA	14	
			(14.5') CLAYEY SILT (ML); black (5Y 2.5/1), moist, non-cohesive, organics.	224,200,194	15	
			(15.8') SILT (ML); brown (10YR 3/3), moist.	114,165,148	16	
			(16') No recovery.			
			(16.2') SAND (SP); gray (5Y 7/1), moist, poorly graded, fine grained, well-rounded, sulfur odor.	238,298,272	17	
			(16.5') SAND (SP); brown (2.5Y 3/1), wet, poorly graded, fine grained, well-rounded, sulfur odor.	199,228,174	18	-5
			(17.3') SAND (SP); gray (2.5Y 6/1), wet, poorly graded, fine grained, well-rounded, sulfur odor.	129,172,178	19	
			(18.4') SAND (SP); white (10YR 8.5/1), wet, moderately graded, fine grained, well-rounded, sulfur odor.	104,142,168	20	
			(20') Fine-medium grained, sulfur odor.	219,204,217	21	
				118,166,202	22	
				180,238,200	23	-10
			(24') Sulfur odor.	137,126,154	24	

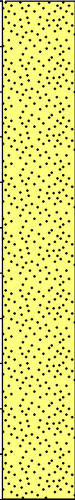
NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 14'-16' and 16'-36'.

Drilling Start Date: 04/22/2020	Boring Depth (ft): 36
Drilling End Date: 04/22/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 13.6
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 6.79
Logged By: N. Quick	North, East (Y,X): 339117.67, 926939.36

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			5
5						0
10						-5
12			(12') No recovery.			-10
13.6			(13.6') CLAY (CL); dark gray (7.5YR 5/1), wet, very soft, non-cohesive.	235,209,129	14	-11
14.8			(14.8') SILTY CLAY (CL); gray (10YR 7/1), soft, high plasticity, PP=0.75.	133,166,195	15	-12
16			(16') Same as above.	279,219,299	16	-13
17.5			(17.5') SILT (ML); gray (10YR 7/1), wet, cohesive.	340,159,274, 254	17	-14
18.7			(18.7') SAND (SP); gray (5Y 7/1), wet, poorly graded, fine grained, well-rounded.	317,195,216	18	-15
20			(20') Same as above.	151,181,175	19	-16
20.6			(20.6') SAND (SP); tan (2.5Y 8/3), wet, well-graded, fine-medium grained with trace coarse sand, well-subrounded.	238,183,135	20	-17
22				187,126,181	21	-18
24			(24') SAND (SP); white (10YR 9/1), wet, moderately graded, fine-medium grained, well-subrounded.	156,228,182	22	-19
25				294,203,234	23	-20
				102,164,124	24	-21

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 13.6'-18' and 19'-36'.

Drilling Start Date: 04/22/2020	Boring Depth (ft): 36
Drilling End Date: 04/22/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 13.6
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 6.79
Logged By: N. Quick	North, East (Y,X): 339117.67, 926939.36

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25				213,221,139	25	
		(25.4') SAND (SP); gray (2.5Y 7/1), wet, well-graded, fine-medium grained with trace coarse sand, well-subrounded.		102,129,101	26	-20
				343,192,133	27	
		(28') SAND (SP); white (10YR 9/1), wet, moderately graded, fine-medium grained, well-subrounded.		228,148,264, 219	28	
				122,111,118	29	
30				131,183,157	30	
				137,109,152	31	-25
		(32') SAND (SP); light gray (5Y 7/1), wet, well-graded, fine-coarse grained, subrounded.		264,100,118	32	
				158,527,239, 133,173	33	
				131,251,132	34	
35				151,180,242	35	
				112,150,162	36	
			(36') Boring terminated.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 13.6'-18' and 19'-36'.

Drilling Start Date: 04/22/2020	Boring Depth (ft): 36
Drilling End Date: 04/22/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 9.4
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 7.43
Logged By: N. Quick	North, East (Y,X): 340053.32, 926849.35

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			5
			(8') No recovery.			0
			(9.4') CLAY (CL); brown (7.5YR 7/4) and gray (10YR 7/1), wet, very soft, low plasticity, mottling present.	204,192,185	10	
			(11.1') SILTY CLAY (CL); gray (2.5Y 7/1), wet, soft, high plasticity, PP=0.75.	126,396,358, 148,373	11	
			(12') No recovery.	NA,NA,NA	12	-5
			(12.8') SILT (ML); gray (10YR 5/1), wet, cohesive.	165,262,170	13	
			(14.8') SAND (SP); gray (10YR 7/1) and tan (2.5Y 7/8), wet, poorly graded, fine grained, well-rounded.	287,278,240	14	
			(16') Same as above, 0.5" oxidized at 18 and 18.9 feet bgs.	184,275,158	15	
				163,183,197	16	
				103,102,151	17	-10
				229,139,186	18	
			(19.3') SAND (SP); tan (10YR 6/6), wet, moderately graded, fine-medium grained, well-rounded.	164,468,134, 127	19	
			(20') Same as above with black mottling from 21-22 feet bgs.	270,NAx4	20	
				172,144,204	21	
				90,128,112	22	-15
				199,204,152	23	
				221,194,188	24	

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 9'-14' and 19'-32'.

Drilling Start Date: 04/22/2020	Boring Depth (ft): 36
Drilling End Date: 04/22/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 9.4
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 7.43
Logged By: N. Quick	North, East (Y,X): 340053.32, 926849.35

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)	
				XRF Barium (ppm)	Sample Depth		
25			(24') SAND (SP); tan (10YR 5/8), wet, well-graded, medium-fine grained with trace coarse sand, subrounded. <i>(continued)</i>	321,229,554	25	-20	
				163,132,394	26		
					349,125,185		27
				(28') SAND (SP); gray (2.5Y 7/1), wet, well-graded, fine-coarse grained, subrounded.	301,352,279		28
					270,NAx4		29
30					87,95,153		30
				(30.8') SAND (SP); light brown (2.5Y 6/8) and yellow (5Y 8/A), wet, moderately graded, medium-coarse grained, subrounded.	121,167,284		31
				(31.7') SILT (ML); gray (5Y 5/1), wet, trace fine sand, cohesive.	76,97,96		32
				(32') Green gray (GLEY 5G 7/2).	102,121,100		33
35					97,114,106		34
				99,79,113	35		

(36') Boring terminated.

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
PP - Pocket Penetrometer (kilograms per square centimeter [kg/cm²]); NA - Not Analyzed
Composite samples collected from the following intervals were submitted for laboratory analysis: 9'-14' and 19'-32'.

Drilling Start Date: 04/22/2020	Boring Depth (ft): 36
Drilling End Date: 04/22/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 17.4
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 11.26
Logged By: N. Quick	North, East (Y,X): 340987.13, 927179.11

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			10
			(8') No recovery.			5
9.1			(9.1') CLAY (CL); gray/green (5G 7/1), soft, high plasticity, trace silt, with organics present from 9.1-10.4 feet bgs.	122,412,278	9	
10				196,249,299	10	
11			(11.4') ORGANIC CLAY (OH); black (5Y 2.5/1).	331,284,338	11	0
			(11.7') CLAY (CL); gray (GLEYS 1 7/N), soft, high plasticity.			
			(12') No recovery.			
14			(14') CLAY (CL); gray (GLEYS 1 7/N), soft, high plasticity.	105,145,129	14	
14.4			(14.4') SILT (ML); gray (GLEYS 1 7/N), moist, cohesive.	149,279,137	15	
14.6			(14.6') SILTY CLAY (CL); black (5Y 2.5/1) and gray (GLEYS 8/N), high plasticity, organics.			
15.2			(15.2') ORGANIC CLAY (OH); black (5Y 2.5/1), soft, high plasticity.			-5
16			(16') No recovery.	268,178,132	17	
17.4			(17.4') CLAY (CL); gray (GLEYS 1 5/N), wet, soft, high plasticity, with black mottling.	322,755,212,1152	18	
19			(19') SILTY CLAY (CL); green/gray (GLEYS 1 5G 7/1), wet, soft, high plasticity.	238,432,284	19	
20			(20') No recovery.	374,328,325	20	
20.6			(20.6') SILTY CLAY (CL); green/gray (GLEYS 1 5G 7/1), wet, soft, high plasticity.	271,650,157,412	21	-10
22.1			(22.1') SILTY SAND (SM); gray (2.5Y 6/1), wet, poorly graded, fine grained, sulfur smell.	489,159,250	22	
				131,291,227	23	
23.5			(23.5') SAND (SP); dark gray (2.5Y 5/1), wet, poorly graded, fine grained, rounded with trace tree roots and sulfur smell.	146,89,223	24	

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 11'-22' and 24'-32'.

Drilling Start Date: 04/22/2020	Boring Depth (ft): 36
Drilling End Date: 04/22/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 17.4
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 11.26
Logged By: N. Quick	North, East (Y,X): 340987.13, 927179.11

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25			(24') SAND (SP); light gray (2.5Y 7/2), wet, poorly graded, fine grained, well-rounded.	111,153,122	25	
		(24.7') SAND (SP); brown (2.5Y 6/4), wet, poorly graded, fine grained, well-subrounded with trace tree roots. (continued)	NAx4	26	-15	
		(27') SAND (SP); brown (2.5Y 6/4), wet, moderately graded, medium grained, subrounded.	196,158,224	27		
		(27.3') SAND (SP); gray (2.5Y 7/1), wet, poorly graded, fine grained, well-rounded with tree root.	126,160,161	28		
		(27.5') SAND (SP); gray (2.5Y 7/1), wet, very well-graded, fine-coarse grained, subrounded with tree roots.	175,142,158	29		
		(27.7') SAND (SP); gray (5Y 6/1), poorly graded, fine grained with trace clay, well-rounded.	181,146,104	30		
		(28') SAND (SP); dark gray (2.5Y 6/1), wet, very well-graded, fine-coarse grained and subrounded, with gravel.	180,361,121	31	-20	
		(30.6') SAND (SP); dark gray (5Y 6/1), wet, poorly graded, fine grained, well-rounded with tree roots.	97,114,100	32		
		(32') SILTY CLAY (CL); green/and gray (GLEY 1 5G 8/1), wet, soft, high plasticity.	121,90,106	33		
			114,102,91	34		
35				101,128,84	35	

(36') Boring terminated.

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
NA - Not Analyzed
Composite samples collected from the following intervals were submitted for laboratory analysis: 11'-22' and 24'-32'.

Drilling Start Date: 04/23/2020	Boring Depth (ft): 40
Drilling End Date: 04/23/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 17.7
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 19.07
Logged By: N. Quick	North, East (Y,X): 341077.27, 926528.46

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			
5						15
10						10
15						5
16			(16') No recovery.			
17.7			(17.7') SAND (SP); gray (5Y 7/1), wet, poorly graded, well-rounded.	453,730,281,	18	
18.3			(18.3') CLAY (CL); black (5Y 2.5/1), soft, high plasticity, trace silt, organics with tree root at 19.2 feet bgs.	208,249	19	0
19				1339,160,184,		
20			(20') No recovery.			
21.2			(21.2') SILTY CLAY (CL); brown (2.5Y 4/3) and tan (10YR 7/8), wet, soft, high plasticity, mottled.	248,231,276	21	
22				227,239,106,	22	
22				142		
23			(23') SAND (SP); gray (5Y 7/1), wet, poorly graded, fine grained, well-rounded.			
24			(24') CLAY (CL); gray (5Y 6/1), wet, soft, high plasticity.	270,141,336,	24	-5
25				513		

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 18.3'-28' and 28'-40'.

Drilling Start Date: 04/23/2020	Boring Depth (ft): 40
Drilling End Date: 04/23/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 17.7
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 19.07
Logged By: N. Quick	North, East (Y,X): 341077.27, 926528.46

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25				300,215,319	25	
			(25.6') SILTY CLAY (CL); gray (2.5Y 7/1), wet, soft, high plasticity, mottled.	261,340,131,218	26	
				228,297,294	27	
			(28') Same as above.	220,192,222	28	
			(28.7') SAND (SP); gray (5Y 7/1), wet, poorly graded, fine grained, well-rounded, sulfur odor.	82,238,124,276	29	-10
				184,317,253,107	30	
				142,97,216	31	
			(32') Same as above.	102,92,203	32	
				NAx5	33	
				200,119,280	34	-15
			(34.9') SAND (SP); black (10YR 3/1), wet, moderately graded, medium grained, subrounded.	196,265,200	35	
			(35.7') SAND (SP); gray (2.5Y 5/1), wet, well-graded, fine-coarse grained, subrounded.	247,205,154	36	
			(36') SAND (SP); tan (2.5Y 7/4), wet, well-graded, fine-medium grained with trace coarse sand.	252,121,370,229	37	
				101,121,215	38	
			(39.1') SAND (SP); gray (5Y 7/1), wet, well-graded, fine-coarse grained, subrounded.	278,107,607,284	39	-20
40			(40') Boring terminated.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 18.3'-28' and 28'-40'.

Drilling Start Date: 04/24/2020	Boring Depth (ft): 40
Drilling End Date: 04/24/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 18.5
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 21.30
Logged By: N. Quick	North, East (Y,X): 341072.03, 925222.91

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			20
5						15
10						10
15						5
16'			(16') No recovery.			5
17.4'			(17.4') CLAY (CL); gray (2.5Y 7/1), moist, soft, high plasticity, mottling present.	181,147,133	17	17
18.5'			(18.5') SILTY CLAY (CL); dark gray (2.5Y 3/1), wet, soft, high plasticity.	161,173,242	18	18
19.1'			(19.1') CLAY (CL); gray (2.5Y 7/1), wet, soft, high plasticity, trace silt.	112,129,154	19	19
20'			(20') No recovery.			
21.2'			(21.2') CLAY (CL); gray (2.5Y 7/1), wet, soft, high plasticity, trace silt.	135,169,225	21	0
22.5'			(22.5') ORGANIC SILT (OL); black (5Y 2.5/1), wet, cohesive.	350,142,188	22	22
22.7'			(22.7') SILTY CLAY (CL); dark gray (2.5Y 3/1), wet, soft, medium plasticity.	156,142,265	23	23
23.3'			(23.3') ORGANIC SILT (OL); black (5Y 2.5/1), wet, cohesive.	185,102,142	24	24

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 17.4'-28.6' and 28.6'-40'.

Drilling Start Date: 04/24/2020	Boring Depth (ft): 40
Drilling End Date: 04/24/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 18.5
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 21.30
Logged By: N. Quick	North, East (Y,X): 341072.03, 925222.91

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)	
				XRF Barium (ppm)	Sample Depth		
25			(23.4') SILTY CLAY (CL); gray (5Y 5/1), wet, soft, high plasticity.	149,165,318,178	25	-5	
			(23.7') SILTY CLAY (CL); black (5Y 2.5/1), wet, soft, high plasticity.	104,212,227	26		
			(24') No recovery.		27		
			(24.6') SILTY CLAY (CL); dark gray (5Y 4/1), wet, soft, high plasticity. <i>(continued)</i>	143,225,315	27		
			(26.6') CLAY (CL); gray (10YR 6/1) and tan (2.5Y 7/8), wet, very soft, high plasticity, mottling.	145,299,209	28		
			(28') Same as above.		29		
			(28.6') SAND (SP); gray (2.5Y 5/1), wet, poorly graded, fine grained, well-rounded.	181,114,211	29		
30				419,175,157	30		
			(31.1') SAND (SP); white (2.5Y 9.5/1), wet, moderately graded, fine-medium grained, well-rounded.	172,275,150	31		-10
			(32') Same as above.	156,322,192	32		
				85,122,101	33		
				115,73,102	34		
35			(34.8') SAND (SP); white (10YR 9.5/1), wet, well-graded, fine-coarse grained, rounded.	1192,137,226,74,104	35		-15
			(36') Same as above, unable to retrieve core depth profile.	102,132,128	36		
				117,162,148	37		
				108,147,62	38		
				124,77,100	39		
40			(40') Boring terminated.				

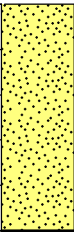
NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 17.4'-28.6' and 28.6'-40'.

Drilling Start Date: 04/23/2020	Boring Depth (ft): 30
Drilling End Date: 04/23/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 15.5
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 19.04
Logged By: N. Quick	North, East (Y,X): 341077.45, 924041.55

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
0			(0') Not sampled.			
5						15
10						10
12			(12') No recovery.			
13.1			(13.1') SILT (ML); brown (10YR 7/8) and gray (10YR 4/1), moist, trace clay, oxidized.	126,202,246	13	
13.7			(13.7') SILTY SAND (SM); dark gray (2.5Y 4/1) and white (2.5Y 8/1), moist, moderately graded, fine grained, well-rounded.	171,173,263	14	5
14.6			(14.6') SILT (ML); dark gray (5Y 4/1), moist, cohesive.	91,121,196	15	
14.9			(14.9') SILT (ML); white/tan (2.5Y 8/3), moist, cohesive with tree root at base.	76,283,149	16	
15.3			(15.3') CLAYEY SILT (ML); dark gray (2.5Y 3/1), moist, cohesive.	255,238,226	17	
15.5			(15.5') SILT (ML); dark gray (5Y 3/1), wet, slightly cohesive.			
16			(16') No recovery.	141,196,94	18	
16.5			(16.5') SILT (ML); dark gray (5Y 3/1), wet, slightly cohesive.	155,132,219	19	0
17.6			(17.6') SILTY CLAY (CL); light gray (10YR 7/1) and light brown (10YR 6/8), wet, soft, high plasticity.			
20			(20') No recovery.			
20.9			(20.9') SILTY CLAY (CL); light gray (10YR 7/1) and light brown (10YR 6/8), wet, soft, high plasticity.	163,114,146	21	
22				336,130,229,453	22	
23				116,274,187	23	
23.4			(23.4') SAND (SP); gray (2.5Y 7/1) and tan (2.5Y 7/6), wet, poorly graded, fine grained, well-rounded.	120,260,164	24	-5
24			(24') Same as above.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
NA - Not Analyzed
Composite samples collected from the following intervals were submitted for laboratory analysis: 15'-23.4' and 23.4'-30'.

Drilling Start Date: 04/23/2020	Boring Depth (ft): 30
Drilling End Date: 04/23/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 15.5
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 19.04
Logged By: N. Quick	North, East (Y,X): 341077.45, 924041.55

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	
25			(25.6') SAND (SP); white (7.5YR 9.5/1), wet, moderately graded, fine-medium grained, well-rounded.	141,145,267, 221	25	
				125,254,139	26	
			(27.3') SAND (SP); gray (5Y 6/1), wet, well-graded, fine-coarse grained, rounded.	176,592,132	27	
				128,120,97	28	
30			(28.8') SAND (SP); dark gray (5Y 4/1), wet, well-graded, fine-coarse grained, rounded with tree root present from 29-29.9 feet bgs.	NAx6	29	-10
			(30') Boring terminated.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 NA - Not Analyzed
 Composite samples collected from the following intervals were submitted for laboratory analysis: 15'-23.4' and 23.4'-30'.

Drilling Start Date: 04/27/2020	Boring Depth (ft): 48
Drilling End Date: 04/27/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 16
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 16.19
Logged By: N. Quick	North, East (Y,X): 341427.88, 922062.16

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				XRF Barium (ppm)	Sample Depth
0			(0') Not sampled.		
16			(16') SAND (SP); gray (5Y 7/1), wet, poorly graded, fine grained, well-rounded.		
17.4			(17.4') SANDY CLAY (CL); gray (5Y 7/1), wet, soft, high plasticity.		
17.6			(17.6') CLAY (CL); dark gray (5Y 5/1), wet, soft, high plasticity.		
20			(20') Same as above.		
24			(24') Same as above with trace silt at base.		

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 Composite samples collected from the following intervals were submitted for laboratory analysis: 17'-33' and 36'-48'.

Drilling Start Date: 04/27/2020	Boring Depth (ft): 48
Drilling End Date: 04/27/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 16
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 16.19
Logged By: N. Quick	North, East (Y,X): 341427.88, 922062.16

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				XRF Barium (ppm)	Sample Depth
25			(17.6') CLAY (CL); dark gray (5Y 5/1), wet, soft, high plasticity. <i>(continued)</i>		
			(25.8') SILTY CLAY (CL); black, wet, soft, high plasticity, organics.		-10
			(26') SILTY CLAY (CL); gray (2.5Y 6/1), wet, soft, high plasticity.		
			(28') Same as above.		
30					-15
			(31.8') SAND (SP); light gray (5Y 8/1), wet, poorly graded, fine grained, well-rounded.		
			(32') SILTY CLAY (CL); dark gray/black (2.5Y 4/1), wet, soft, high plasticity.		
			(33.5') SAND (SP); dark gray (2.5Y 4/1), wet, poorly graded, fine grained, well-rounded.		
			(34.2') CLAY (CL); dark gray, wet, soft, high plasticity.		
35			(34.4') SAND (SP); gray, poorly graded, fine grained, well-rounded.		
			(34.7') CLAY (CL); dark gray, wet, soft, high plasticity.		-20
			(35') SAND (SP); gray, poorly graded, fine grained, well-rounded.		
			(35.3') CLAY (CL); dark gray, wet, soft, high plasticity.		
			(35.7') SAND (SP); gray, poorly graded, fine grained, well-rounded.		
			(36') SAND (SP); dark gray (5Y 4/1), wet, poorly graded, fine-medium grained, well-rounded.		
40			(40') No recovery.		-25
			(41.6') SAND (SP); dark gray (5Y 4/1), wet, poorly graded, fine-medium grained, well-rounded.		
45			(44') SAND (SP); dark gray, wet, well-graded, fine-coarse grained, rounded with tree roots/organics at 47.6 feet bgs.		-30
			(48') Boring terminated.		

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
Composite samples collected from the following intervals were submitted for laboratory analysis: 17'-33' and 36'-48'.

Drilling Start Date: 04/27/2020	Boring Depth (ft): 48
Drilling End Date: 04/27/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 19.29
Logged By: N. Quick	North, East (Y,X): 341900.18, 922044.11

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				XRF Barium (ppm)	Sample Depth
0			(0') Not sampled.		
5					
10					
15					
20		▽	(20') CLAY (CL); dark gray (5Y 4/1), wet, soft, high plasticity, with gravel at 20.5 and 23.5-23.6 bgs.		
25			(24') Same as above.		

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
 Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
 Composite samples collected from the following intervals were submitted for laboratory analysis: 24'-34' and 35'-48'.

Drilling Start Date: 04/27/2020	Boring Depth (ft): 48
Drilling End Date: 04/27/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 19.29
Logged By: N. Quick	North, East (Y,X): 341900.18, 922044.11

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				XRF Barium (ppm)	Sample Depth
					ELEVATION (ft)
25			(24.8') CLAY (CL); black (2.5Y 1/1), wet, soft, high plasticity, organics.		
			(24.9') CLAY (CL); dark gray (5Y 4/1), wet, soft, high plasticity. <i>(continued)</i>		
			(25.1') SILTY CLAY (CL); gray (5Y 6/1), wet, soft, high plasticity.		
			(28') Same as above with mottling present.		-10
30			(32') CLAY (CL); gray (2.5Y 6/1), wet, soft, high plasticity.		
			(33') CLAY (CL); brown (10YR 5/8), wet, soft, high plasticity.		
			(34.1') SILT (ML); dark gray (2.5Y 5/1), wet, cohesive with tree root present at 34.4-34.5 feet bgs.		-15
35			(35') SAND (SP); light gray (5Y 7/1), wet, poorly graded, fine grained, well-rounded with tree roots present from 35.3-35.6 feet bgs.		
			(36') SAND (SP); gray (5Y 6/1), wet, moderately graded, fine-medium grained, well-rounded.		
			(40') Trace coarse gravel.		-20
			(44') No recovery.		-25
45			(45') SAND (SP); light gray (5Y 7/1), wet, well-graded, fine-coarse grained, rounded.		
			(48') Boring terminated.		

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
Composite samples collected from the following intervals were submitted for laboratory analysis: 24'-34' and 35'-48'.

Drilling Start Date: 04/28/2020	Boring Depth (ft): 52
Drilling End Date: 04/28/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 20.42
Logged By: N. Quick	North, East (Y,X): 342239.97, 922047.65

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				XRF Barium (ppm)	Sample Depth
0			(0') Not sampled.		
5					
10					
15					
20		▽	(20') CLAY (CL); dark gray (5Y 4/1), wet, very soft, high plasticity, trace silt.		
23			(23') SILTY CLAY (CL); black (5Y 1/1), wet, soft, high plasticity, with organics.		
23.1			(23.1') CLAY (CL); dark gray (5Y 4/1), wet, very soft, high plasticity, trace silt.		
23.6			(23.6') SILTY CLAY (CL); gray (2.5Y 6/1), wet, soft, high plasticity.		
25					

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
Composite samples collected from the following intervals were submitted for laboratory analysis: 28'-40' and 44'-52'.


Drilling Start Date: 04/28/2020	Boring Depth (ft): 52
Drilling End Date: 04/28/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 20.42
Logged By: N. Quick	North, East (Y,X): 342239.97, 922047.65

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE	
				XRF Barium (ppm)	ELEVATION (ft)
25			(24') CLAYEY SILT (ML); gray (2.5Y 6/1), wet, non-cohesive.		-5
			(24.4') SILTY CLAY (CL); gray (2.5Y 6/1), wet, soft, high plasticity. <i>(continued)</i>		
			(25.8') SILT (ML); gray (5Y 6/1), wet, cohesive.		
			(26.6') SAND (SP); light gray (5Y 7/1), wet, poorly graded, fine grained with trace medium gravel at base, well-rounded.		
			(28') Same as above.		
			(28.5') SILTY CLAY (CL); light gray, wet, soft, high plasticity.		
30			(28.8') SILT (ML); light gray, wet, cohesive.		-10
			(29.1') SILTY CLAY (CL); light gray, wet, soft, high plasticity.		
			(29.5') CLAY (CL); brown (7.5YR 7/7), moist, soft, high plasticity, trace silt.		
			(32') Same as above.		
			(34') CLAY (CL); dark gray (5Y 4/1), wet, soft, high plasticity.		
35			(34.3') SILTY CLAY (CL); dark gray (5Y 4/1), wet, soft, high plasticity.		-15
			(35.1') CLAY (CL); dark gray (5Y 3/1), wet, soft, high plasticity.		
			(36') With brown tree roots from 36-36.2 feet bgs.		
			(36.7') SILTY CLAY (CL); dark gray (5Y 4/1), wet, soft, high plasticity.		
			(36.9') CLAY (CL); dark brown, wet, soft, high plasticity, mottling present.		
40			(40') CLAYEY SILT (ML); dark gray (5Y 4/1), wet, trace gray fine sand (5Y 6/1), slightly cohesive with tree roots present.		-20
			(42.1') SAND (SP); gray (5Y 5/1), wet, moderately graded, fine-medium grained, rounded.		
			(43.7') SAND (SP); brown, fine grained with clay lens.		
45			(44') SAND (SP); light gray (2.5Y 8/1), moist, moderately graded, fine-medium grained, rounded.		-25
			(48') Same as above.		
50					

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
Composite samples collected from the following intervals were submitted for laboratory analysis: 28'-40' and 44'-52'.

Drilling Start Date: 04/28/2020	Boring Depth (ft): 52
Drilling End Date: 04/28/2020	Boring Diameter (in): 1.75
Drilling Company: WHE	Sampling Method(s): Direct Push
Drilling Method: Direct Push	DTW During Drilling (ft): 20
Drilling Equipment: Geoprobe 7822DT	DTW After Drilling (ft): --
Driller: C. Cliburn	Ground Surface Elev. (ft): 20.42
Logged By: N. Quick	North, East (Y,X): 342239.97, 922047.65

DEPTH (ft)	LITHOLOGY	WATER LEVEL	SOIL/ROCK VISUAL DESCRIPTION	MEASURE		ELEVATION (ft)
				XRF Barium (ppm)	Sample Depth	

50			(44') SAND (SP); light gray (2.5Y 8/1), moist, moderately graded, fine-medium grained, rounded. <i>(continued)</i>			-30
			(51.3') SAND (SP); light gray (2.5Y 9/1), moderately graded, coarse grained with gravel, rounded.			
			(51.5') SAND (SP); whites, wet, well-graded, fine-coarse grained, rounded.			
			(52') Boring terminated.			

NOTES: Horizontal coordinates surveyed in reference to the North American Datum of 1983 (NAD83)
Surface elevation surveyed in reference to the North American Vertical Datum of 1988 (NAVD88)
Composite samples collected from the following intervals were submitted for laboratory analysis: 28'-40' and 44'-52'.

APPENDIX B

Analytical Laboratory Reports

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-95981-1
Client Project/Site: CCR - Plant Watson

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
10/24/2019 4:38:45 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

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www.testamericainc.com

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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Job ID: 180-95981-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-95981-1

Comments

No additional comments.

Receipt

The samples were received on 9/20/2019 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 1.7° C.

GC VOA

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

GC Semi VOA

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

Metals

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

General Chemistry

Method(s) SM 5310C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-293568 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4) and DUP-01 (180-95981-5).

Method(s) SM 2540C: Reanalysis of the following samples were performed outside of the analytical holding time due to confirmation of over-residue; both results are reported : 1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4) and DUP-01 (180-95981-5).

Method(s) SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4), DUP-01 (180-95981-5) and (180-95981-F-1 DU). The reporting limits (RLs) have been adjusted proportionately.

Method(s) SM 2320B: Reanalysis of the following samples were performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. 1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4) and DUP-01 (180-95981-5)

Method(s) 351.2: The inter-parameter relationship does not meet acceptable criteria. Reanalysis was preformed, and the results confirmed.

2S-GS (180-95981-4)

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

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Qualifiers

GC VOA

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.

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
California	State	2931	04-01-20
Connecticut	State	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	03-31-20
Georgia	State Program	10026 (NY)	03-31-20
Georgia (DW)	State	956	03-31-20
Iowa	State	374	02-28-21
Kansas	NELAP	E-10187	01-31-20
Kentucky (DW)	State	90029	12-31-20
Kentucky (UST)	State	30	03-31-20
Kentucky (UST)	State Program	30	03-31-20
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-05-20
Maine	State Program	NY00044	12-04-20
Maryland	State	294	03-31-20
Massachusetts	State	M-NY044	06-30-20
Massachusetts	State Program	M-NY044	06-30-20
Michigan	State	9937	03-31-20
Minnesota	NELAP	1524384	12-31-19
New Hampshire	NELAP	2337	11-17-19 *
New Hampshire	NELAP	2337	11-17-19
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-01-20
North Dakota	State	R-176	03-31-20
Oklahoma	State	9421	09-01-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Rhode Island	State	LAO00328	12-30-20
Tennessee	State	02970	03-31-20
Texas	NELAP	T104704412-18-10	08-01-20
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Virginia	NELAP	460185	09-14-20
Washington	State	C784	02-10-20
Wisconsin	State	998310390	08-31-20

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



Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-20
Connecticut	State	PH-0751	09-30-19 *
Connecticut	State Program	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-19
New Hampshire	NELAP	2006	12-18-19
New Hampshire	NELAP	2006	10-18-19
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	03-31-20
Pennsylvania	NELAP	68-00489	04-30-20
Rhode Island	State	LAO00298	12-30-19
Rhode Island	State Program	LAO00298	12-30-19
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-19
Virginia	NELAP	460209	12-14-19

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

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95981-1	1S-GS	Water	09/19/19 11:02	09/20/19 08:45	
180-95981-2	1D-GS	Water	09/19/19 11:55	09/20/19 08:45	
180-95981-3	2D-GS	Water	09/19/19 14:40	09/20/19 08:45	
180-95981-4	2S-GS	Water	09/19/19 14:29	09/20/19 08:45	
180-95981-5	DUP-01	Water	09/19/19 07:00	09/20/19 08:45	

- 1
- 2
- 3
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- 9
- 10
- 11
- 12
- 13

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL BUR
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL PIT
1664B	HEM and SGT-HEM	1664B	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PIT
SM 4500 CO2 B	Free Carbon Dioxide	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF
SM 5310C	Total Organic Carbon	SM	TAL PIT
1664B	HEM and SGT-HEM (Aqueous)	1664B	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
7470A	Preparation, Mercury	SW846	TAL PIT
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

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

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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 BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 1S-GS

Lab Sample ID: 180-95981-1

Date Collected: 09/19/19 11:02

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147625	09/23/19 17:54	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292051	09/20/19 21:52	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292051	09/20/19 22:07	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:21	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 04:15	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 11:53	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			974 mL	1000 mL	495418	10/02/19 10:19	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			495523	10/02/19 16:08	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	495213	10/01/19 12:58	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495570	10/02/19 19:45	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495816	10/03/19 09:49	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	495068	09/30/19 22:04	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator		1	25 mL	25 mL	496193	10/05/19 00:00	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495175	10/01/19 10:29	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292382	09/24/19 09:54	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495554	10/01/19 19:00	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			293568	10/02/19 15:41	CLL	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 1D-GS

Lab Sample ID: 180-95981-2

Date Collected: 09/19/19 11:55

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147625	09/23/19 18:02	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292051	09/20/19 22:22	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292051	09/20/19 22:37	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:25	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 04:19	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 11:55	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			982 mL	1000 mL	495418	10/02/19 10:19	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			495523	10/02/19 16:08	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		5	5 mL	5 mL	495217	10/01/19 13:28	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495570	10/02/19 19:45	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495816	10/03/19 09:49	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	495068	09/30/19 22:08	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator		1	25 mL	25 mL	496193	10/05/19 00:07	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495175	10/01/19 10:29	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292382	09/24/19 09:54	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495554	10/01/19 19:06	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			293568	10/02/19 15:57	CLL	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 2D-GS

Lab Sample ID: 180-95981-3

Date Collected: 09/19/19 14:40

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147625	09/23/19 18:11	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292051	09/20/19 22:52	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292051	09/20/19 23:06	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:28	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 04:34	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 11:56	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			967 mL	1000 mL	495418	10/02/19 10:19	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			495523	10/02/19 16:08	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		5	5 mL	5 mL	495217	10/01/19 13:28	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495570	10/02/19 19:45	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		2			495816	10/03/19 10:25	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	495068	09/30/19 22:09	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator		1	25 mL	25 mL	496193	10/05/19 00:17	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495175	10/01/19 10:29	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292382	09/24/19 09:54	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495554	10/01/19 19:09	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			293568	10/02/19 16:12	CLL	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 2S-GS

Lab Sample ID: 180-95981-4

Date Collected: 09/19/19 14:29

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147625	09/23/19 18:20	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292051	09/20/19 23:51	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292051	09/21/19 00:06	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:38	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292738	09/26/19 08:59	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 04:38	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 11:57	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			971 mL	1000 mL	495418	10/02/19 10:19	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			495523	10/02/19 16:08	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		20	5 mL	5 mL	495217	10/01/19 13:29	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495838	10/03/19 18:05	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			496240	10/06/19 14:10	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	495068	09/30/19 22:12	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator		1	25 mL	25 mL	496193	10/05/19 00:23	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495175	10/01/19 10:29	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292382	09/24/19 09:54	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495554	10/01/19 19:11	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			293568	10/02/19 16:26	CLL	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: DUP-01

Lab Sample ID: 180-95981-5

Date Collected: 09/19/19 07:00

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147653	09/24/19 15:29	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292051	09/21/19 00:21	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292051	09/21/19 00:36	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292814	09/26/19 12:54	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			293633	10/03/19 01:51	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 11:58	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			980 mL	1000 mL	495418	10/02/19 10:19	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			495523	10/02/19 16:08	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		2	5 mL	5 mL	495217	10/01/19 13:30	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495570	10/02/19 19:45	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495816	10/03/19 09:49	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	495068	09/30/19 22:14	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator		1	25 mL	25 mL	496193	10/05/19 00:29	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495175	10/01/19 10:29	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292382	09/24/19 09:54	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495554	10/01/19 19:14	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genysis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			293568	10/02/19 16:41	CLL	TAL PIT

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Analyst References:

Lab: TAL BUF

Batch Type: Prep

CLT = Christine Thomas

CRK = Christian Kriner

LAW = Larry Wolfe

Batch Type: Analysis

AEF = Alex Fritz

BEF = Brianna Fallon

CLT = Christine Thomas

CRK = Christian Kriner

CSS = Chandler Stone

KEB = Katherine Bauer

MTM2 = Michael Mosscrop

RP = Rosemary Pietras

Lab: TAL BUR

Batch Type: Analysis

MLT = Melissa Tice

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

Batch Type: Analysis

AGP = Angela Partridge

CLL = Cheryl Loheyde

CMR = Carl Reagle

MM1 = Mary Beth Miller

RJR = Ron Rosenbaum

RSK = Robert Kurtz

WTR = Bill Reinheimer

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 1S-GS

Lab Sample ID: 180-95981-1

Date Collected: 09/19/19 11:02

Matrix: Water

Date Received: 09/20/19 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	1800	J	5000	1800	ug/L			09/23/19 17:54	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/20/19 21:52	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/20/19 21:52	25
Fluoride	<0.66		2.5	0.66	mg/L			09/20/19 21:52	25
Chloride	5000		250	180	mg/L			09/20/19 22:07	250
Bromide	12	J	13	2.2	mg/L			09/20/19 21:52	25
Sulfate	690		25	9.5	mg/L			09/20/19 21:52	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/20/19 21:52	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0026		0.0020	0.00038	mg/L		09/26/19 08:59	10/16/19 04:15	1
Aluminum	0.075		0.030	0.013	mg/L		09/26/19 08:59	10/16/19 04:15	1
Arsenic	0.16		0.0010	0.00032	mg/L		09/26/19 08:59	10/16/19 04:15	1
Beryllium	0.00024	J	0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:15	1
Boron	7.2		0.080	0.039	mg/L		09/26/19 08:59	10/16/19 04:15	1
Cadmium	0.00035	J	0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:15	1
Barium	0.11		0.010	0.0016	mg/L		09/26/19 08:59	10/16/19 04:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 08:59	10/16/19 04:15	1
Copper	0.0014	J	0.0020	0.00063	mg/L		09/26/19 08:59	10/16/19 04:15	1
Calcium	390		0.50	0.13	mg/L		09/26/19 08:59	10/16/19 04:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:15	1
Nickel	0.0015		0.0010	0.00034	mg/L		09/26/19 08:59	10/16/19 04:15	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/26/19 08:59	10/16/19 04:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/26/19 08:59	10/16/19 04:15	1
Thallium	0.0030	B	0.0010	0.00015	mg/L		09/26/19 08:59	10/16/19 04:15	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/26/19 08:59	10/16/19 04:15	1
Iron	0.085		0.050	0.020	mg/L		09/26/19 08:59	10/16/19 04:15	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:15	1
Potassium	89		0.50	0.16	mg/L		09/26/19 08:59	10/16/19 04:15	1
Magnesium	110		0.50	0.083	mg/L		09/26/19 08:59	10/16/19 04:15	1
Manganese	0.052		0.0050	0.0014	mg/L		09/26/19 08:59	10/16/19 04:15	1
Molybdenum	1.2		0.0050	0.00061	mg/L		09/26/19 08:59	10/16/19 04:15	1
Sodium	2100		0.50	0.35	mg/L		09/26/19 08:59	10/16/19 04:15	1
Strontium	4.3		0.0050	0.00076	mg/L		09/26/19 08:59	10/16/19 04:15	1
Titanium	0.0030	J	0.0050	0.0025	mg/L		09/26/19 08:59	10/16/19 04:15	1
Vanadium	0.053		0.0010	0.00099	mg/L		09/26/19 08:59	10/16/19 04:15	1
Lithium	0.13		0.0050	0.0034	mg/L		09/26/19 08:59	10/16/19 04:15	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 08:59	10/16/19 04:15	1
Silicon	2.5	^	0.50	0.13	mg/L		09/26/19 08:59	10/16/19 21:21	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:53	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 1S-GS

Lab Sample ID: 180-95981-1

Date Collected: 09/19/19 11:02

Matrix: Water

Date Received: 09/20/19 08:45

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1400		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	970		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	450		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	4.0	J B	5.1	1.4	mg/L		10/02/19 10:19	10/02/19 16:08	1
Ammonia	1.3	B	0.20	0.10	mg/L		10/01/19 06:45	10/01/19 12:58	1
Total Kjeldahl Nitrogen	1.4		0.20	0.15	mg/L		10/02/19 19:45	10/03/19 09:49	1
Nitrate Nitrite as N	0.054		0.050	0.020	mg/L			09/30/19 22:04	1
Alkalinity, Total	48	H	5.0	0.79	mg/L			10/05/19 00:00	1
Alkalinity, Bicarbonate	48	H	5.0	0.79	mg/L			10/05/19 00:00	1
Alkalinity, Carbonate	<0.79	H	5.0	0.79	mg/L			10/05/19 00:00	1
Hydroxide Alkalinity	<0.79	H	5.0	0.79	mg/L			10/05/19 00:00	1
Total Dissolved Solids	5300	H	100	40	mg/L			10/01/19 10:29	1
Total Suspended Solids	1.0		0.50	0.50	mg/L			09/24/19 09:54	1
Carbon Dioxide, Free	0.50		0.10	0.10	mg/L			10/21/19 13:52	1
pH	8.3	HF	0.1	0.1	SU			10/01/19 19:00	1
Temperature	20.5	HF	0.001	0.001	Degrees C			10/01/19 19:00	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	1.1		1.0	0.51	mg/L			10/02/19 15:41	1

Client Sample ID: 1D-GS

Lab Sample ID: 180-95981-2

Date Collected: 09/19/19 11:55

Matrix: Water

Date Received: 09/20/19 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	38000		5000	1800	ug/L			09/23/19 18:02	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/20/19 22:22	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/20/19 22:22	25
Fluoride	<0.66		2.5	0.66	mg/L			09/20/19 22:22	25
Chloride	3400		250	180	mg/L			09/20/19 22:37	250
Bromide	9.9	J	13	2.2	mg/L			09/20/19 22:22	25
Sulfate	67		25	9.5	mg/L			09/20/19 22:22	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/20/19 22:22	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0017	J	0.0020	0.00038	mg/L		09/26/19 08:59	10/16/19 04:19	1
Aluminum	0.14		0.030	0.013	mg/L		09/26/19 08:59	10/16/19 04:19	1
Arsenic	0.017		0.0010	0.00032	mg/L		09/26/19 08:59	10/16/19 04:19	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:19	1
Boron	6.2		0.080	0.039	mg/L		09/26/19 08:59	10/16/19 04:19	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:19	1
Barium	1.0		0.010	0.0016	mg/L		09/26/19 08:59	10/16/19 04:19	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 1D-GS

Lab Sample ID: 180-95981-2

Date Collected: 09/19/19 11:55

Matrix: Water

Date Received: 09/20/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 08:59	10/16/19 04:19	1
Copper	0.0012	J	0.0020	0.00063	mg/L		09/26/19 08:59	10/16/19 04:19	1
Calcium	420		0.50	0.13	mg/L		09/26/19 08:59	10/16/19 04:19	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:19	1
Nickel	0.0012		0.0010	0.00034	mg/L		09/26/19 08:59	10/16/19 04:19	1
Cobalt	0.00011	J	0.00050	0.000075	mg/L		09/26/19 08:59	10/16/19 04:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/26/19 08:59	10/16/19 04:19	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/26/19 08:59	10/16/19 04:19	1
Zinc	0.0040	J	0.0050	0.0032	mg/L		09/26/19 08:59	10/16/19 04:19	1
Iron	0.042	J	0.050	0.020	mg/L		09/26/19 08:59	10/16/19 04:19	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:19	1
Potassium	91		0.50	0.16	mg/L		09/26/19 08:59	10/16/19 04:19	1
Magnesium	21		0.50	0.083	mg/L		09/26/19 08:59	10/16/19 04:19	1
Manganese	0.11		0.0050	0.0014	mg/L		09/26/19 08:59	10/16/19 04:19	1
Molybdenum	0.030		0.0050	0.00061	mg/L		09/26/19 08:59	10/16/19 04:19	1
Sodium	1700		0.50	0.35	mg/L		09/26/19 08:59	10/16/19 04:19	1
Strontium	2.5		0.0050	0.00076	mg/L		09/26/19 08:59	10/16/19 04:19	1
Titanium	0.0046	J	0.0050	0.0025	mg/L		09/26/19 08:59	10/16/19 04:19	1
Vanadium	0.0044		0.0010	0.00099	mg/L		09/26/19 08:59	10/16/19 04:19	1
Lithium	0.075		0.0050	0.0034	mg/L		09/26/19 08:59	10/16/19 04:19	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 08:59	10/16/19 04:19	1
Silicon	7.0	^	0.50	0.13	mg/L		09/26/19 08:59	10/16/19 21:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:55	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1100		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	1000		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	86		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.0	J B	5.1	1.4	mg/L		10/02/19 10:19	10/02/19 16:08	1
Ammonia	4.6	B	1.0	0.50	mg/L		10/01/19 06:45	10/01/19 13:28	5
Total Kjeldahl Nitrogen	4.9		0.20	0.15	mg/L		10/02/19 19:45	10/03/19 09:49	1
Nitrate Nitrite as N	0.043	J	0.050	0.020	mg/L			09/30/19 22:08	1
Alkalinity, Total	340	H	5.0	0.79	mg/L			10/05/19 00:07	1
Alkalinity, Bicarbonate	340	H	5.0	0.79	mg/L			10/05/19 00:07	1
Alkalinity, Carbonate	<0.79	H	5.0	0.79	mg/L			10/05/19 00:07	1
Hydroxide Alkalinity	<0.79	H	5.0	0.79	mg/L			10/05/19 00:07	1
Total Dissolved Solids	5800	H	100	40	mg/L			10/01/19 10:29	1
Total Suspended Solids	4.1		0.50	0.50	mg/L			09/24/19 09:54	1
Carbon Dioxide, Free	11		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.8	HF	0.1	0.1	SU			10/01/19 19:06	1
Temperature	20.5	HF	0.001	0.001	Degrees C			10/01/19 19:06	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 1D-GS

Date Collected: 09/19/19 11:55

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-2

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	5.4		1.0	0.51	mg/L			10/02/19 15:57	1

Client Sample ID: 2D-GS

Date Collected: 09/19/19 14:40

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-3

Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	120000		5000	1800	ug/L			09/23/19 18:11	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/20/19 22:52	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/20/19 22:52	25
Fluoride	<0.66		2.5	0.66	mg/L			09/20/19 22:52	25
Chloride	4100		250	180	mg/L			09/20/19 23:06	250
Bromide	14		13	2.2	mg/L			09/20/19 22:52	25
Sulfate	140		25	9.5	mg/L			09/20/19 22:52	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/20/19 22:52	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00059	J	0.0020	0.00038	mg/L		09/26/19 08:59	10/16/19 04:34	1
Aluminum	0.13		0.030	0.013	mg/L		09/26/19 08:59	10/16/19 04:34	1
Arsenic	0.091		0.0010	0.00032	mg/L		09/26/19 08:59	10/16/19 04:34	1
Beryllium	0.00018	J	0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:34	1
Boron	17		0.080	0.039	mg/L		09/26/19 08:59	10/16/19 04:34	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:34	1
Barium	0.86		0.010	0.0016	mg/L		09/26/19 08:59	10/16/19 04:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 08:59	10/16/19 04:34	1
Copper	0.0012	J	0.0020	0.00063	mg/L		09/26/19 08:59	10/16/19 04:34	1
Calcium	490		0.50	0.13	mg/L		09/26/19 08:59	10/16/19 04:34	1
Lead	0.00047	J	0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:34	1
Nickel	0.0012		0.0010	0.00034	mg/L		09/26/19 08:59	10/16/19 04:34	1
Cobalt	0.00016	J	0.00050	0.000075	mg/L		09/26/19 08:59	10/16/19 04:34	1
Selenium	0.0015	J	0.0050	0.0015	mg/L		09/26/19 08:59	10/16/19 04:34	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/26/19 08:59	10/16/19 04:34	1
Zinc	0.011		0.0050	0.0032	mg/L		09/26/19 08:59	10/16/19 04:34	1
Iron	2.7		0.050	0.020	mg/L		09/26/19 08:59	10/16/19 04:34	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:34	1
Potassium	70		0.50	0.16	mg/L		09/26/19 08:59	10/16/19 04:34	1
Magnesium	96		0.50	0.083	mg/L		09/26/19 08:59	10/16/19 04:34	1
Manganese	0.48		0.0050	0.0014	mg/L		09/26/19 08:59	10/16/19 04:34	1
Molybdenum	0.18		0.0050	0.00061	mg/L		09/26/19 08:59	10/16/19 04:34	1
Sodium	2100		0.50	0.35	mg/L		09/26/19 08:59	10/16/19 04:34	1
Strontium	6.1		0.0050	0.00076	mg/L		09/26/19 08:59	10/16/19 04:34	1
Titanium	0.010		0.0050	0.0025	mg/L		09/26/19 08:59	10/16/19 04:34	1
Vanadium	0.0072		0.0010	0.00099	mg/L		09/26/19 08:59	10/16/19 04:34	1
Lithium	0.079		0.0050	0.0034	mg/L		09/26/19 08:59	10/16/19 04:34	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 08:59	10/16/19 04:34	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 2D-GS

Lab Sample ID: 180-95981-3

Date Collected: 09/19/19 14:40

Matrix: Water

Date Received: 09/20/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	7.2	^	0.50	0.13	mg/L		09/26/19 08:59	10/16/19 21:28	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:56	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1600		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	1200		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	400		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.8	J B	5.2	1.4	mg/L		10/02/19 10:19	10/02/19 16:08	1
Ammonia	4.9	B	1.0	0.50	mg/L		10/01/19 06:45	10/01/19 13:28	5
Total Kjeldahl Nitrogen	5.7		0.40	0.30	mg/L		10/02/19 19:45	10/03/19 10:25	2
Nitrate Nitrite as N	0.070		0.050	0.020	mg/L			09/30/19 22:09	1
Alkalinity, Total	810	H	5.0	0.79	mg/L			10/05/19 00:17	1
Alkalinity, Bicarbonate	810	H	5.0	0.79	mg/L			10/05/19 00:17	1
Alkalinity, Carbonate	<0.79	H	5.0	0.79	mg/L			10/05/19 00:17	1
Hydroxide Alkalinity	<0.79	H	5.0	0.79	mg/L			10/05/19 00:17	1
Total Dissolved Solids	5800	H	100	40	mg/L			10/01/19 10:29	1
Total Suspended Solids	2.8		0.50	0.50	mg/L			09/24/19 09:54	1
Carbon Dioxide, Free	55		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.4	HF	0.1	0.1	SU			10/01/19 19:09	1
Temperature	20.3	HF	0.001	0.001	Degrees C			10/01/19 19:09	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	6.7		1.0	0.51	mg/L			10/02/19 16:12	1

Client Sample ID: 2S-GS

Lab Sample ID: 180-95981-4

Date Collected: 09/19/19 14:29

Matrix: Water

Date Received: 09/20/19 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/23/19 18:20	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/20/19 23:51	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/20/19 23:51	25
Fluoride	<0.66		2.5	0.66	mg/L			09/20/19 23:51	25
Chloride	5600		250	180	mg/L			09/21/19 00:06	250
Bromide	16		13	2.2	mg/L			09/20/19 23:51	25
Sulfate	1300		25	9.5	mg/L			09/20/19 23:51	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/20/19 23:51	25

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 2S-GS

Lab Sample ID: 180-95981-4

Date Collected: 09/19/19 14:29

Matrix: Water

Date Received: 09/20/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0044		0.0020	0.00038	mg/L		09/26/19 08:59	10/16/19 04:38	1
Aluminum	0.095		0.030	0.013	mg/L		09/26/19 08:59	10/16/19 04:38	1
Arsenic	0.16		0.0010	0.00032	mg/L		09/26/19 08:59	10/16/19 04:38	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:38	1
Boron	22		0.080	0.039	mg/L		09/26/19 08:59	10/16/19 04:38	1
Cadmium	0.0019		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:38	1
Barium	0.075		0.010	0.0016	mg/L		09/26/19 08:59	10/16/19 04:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 08:59	10/16/19 04:38	1
Copper	0.0021		0.0020	0.00063	mg/L		09/26/19 08:59	10/16/19 04:38	1
Calcium	930		0.50	0.13	mg/L		09/26/19 08:59	10/16/19 04:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 04:38	1
Nickel	0.0026		0.0010	0.00034	mg/L		09/26/19 08:59	10/16/19 04:38	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/26/19 08:59	10/16/19 04:38	1
Selenium	0.0090		0.0050	0.0015	mg/L		09/26/19 08:59	10/16/19 04:38	1
Thallium	0.0073	B	0.0010	0.00015	mg/L		09/26/19 08:59	10/16/19 04:38	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/26/19 08:59	10/16/19 04:38	1
Iron	<0.020		0.050	0.020	mg/L		09/26/19 08:59	10/16/19 04:38	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 04:38	1
Potassium	110		0.50	0.16	mg/L		09/26/19 08:59	10/16/19 04:38	1
Magnesium	17		0.50	0.083	mg/L		09/26/19 08:59	10/16/19 04:38	1
Manganese	0.029		0.0050	0.0014	mg/L		09/26/19 08:59	10/16/19 04:38	1
Molybdenum	8.5		0.0050	0.00061	mg/L		09/26/19 08:59	10/16/19 04:38	1
Sodium	2200		0.50	0.35	mg/L		09/26/19 08:59	10/16/19 04:38	1
Strontium	8.2		0.0050	0.00076	mg/L		09/26/19 08:59	10/16/19 04:38	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/26/19 08:59	10/16/19 04:38	1
Vanadium	0.15		0.0010	0.00099	mg/L		09/26/19 08:59	10/16/19 04:38	1
Lithium	0.13		0.0050	0.0034	mg/L		09/26/19 08:59	10/16/19 04:38	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 08:59	10/16/19 04:38	1
Silicon	1.8	^	0.50	0.13	mg/L		09/26/19 08:59	10/16/19 21:38	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:57	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	2400		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	2300		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	70		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	4.5	J B	5.1	1.4	mg/L		10/02/19 10:19	10/02/19 16:08	1
Ammonia	24	B	4.0	2.0	mg/L		10/01/19 06:45	10/01/19 13:29	20
Total Kjeldahl Nitrogen	3.0		0.20	0.15	mg/L		10/03/19 18:05	10/06/19 14:10	1
Nitrate Nitrite as N	0.038	J	0.050	0.020	mg/L			09/30/19 22:12	1
Alkalinity, Total	50	H	5.0	0.79	mg/L			10/05/19 00:23	1
Alkalinity, Bicarbonate	50	H	5.0	0.79	mg/L			10/05/19 00:23	1
Alkalinity, Carbonate	<0.79	H	5.0	0.79	mg/L			10/05/19 00:23	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: 2S-GS

Lab Sample ID: 180-95981-4

Date Collected: 09/19/19 14:29

Matrix: Water

Date Received: 09/20/19 08:45

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity	<0.79	H	5.0	0.79	mg/L			10/05/19 00:23	1
Total Dissolved Solids	10000	H	100	40	mg/L			10/01/19 10:29	1
Total Suspended Solids	0.90		0.50	0.50	mg/L			09/24/19 09:54	1
Carbon Dioxide, Free	0.40		0.10	0.10	mg/L			10/21/19 13:52	1
pH	8.4	HF	0.1	0.1	SU			10/01/19 19:11	1
Temperature	20.3	HF	0.001	0.001	Degrees C			10/01/19 19:11	1
Phosphorus	0.11		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	1.5		1.0	0.51	mg/L			10/02/19 16:26	1

Client Sample ID: DUP-01

Lab Sample ID: 180-95981-5

Date Collected: 09/19/19 07:00

Matrix: Water

Date Received: 09/20/19 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/24/19 15:29	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/21/19 00:21	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/21/19 00:21	25
Fluoride	<0.66		2.5	0.66	mg/L			09/21/19 00:21	25
Chloride	6300		250	180	mg/L			09/21/19 00:36	250
Bromide	16		13	2.2	mg/L			09/21/19 00:21	25
Sulfate	1300		25	9.5	mg/L			09/21/19 00:21	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/21/19 00:21	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0038		0.0020	0.00038	mg/L		09/26/19 12:54	10/03/19 01:51	1
Aluminum	0.22		0.030	0.013	mg/L		09/26/19 12:54	10/03/19 01:51	1
Arsenic	0.14		0.0010	0.00032	mg/L		09/26/19 12:54	10/03/19 01:51	1
Beryllium	0.00030	J	0.0010	0.00018	mg/L		09/26/19 12:54	10/03/19 01:51	1
Boron	20		0.080	0.039	mg/L		09/26/19 12:54	10/03/19 01:51	1
Cadmium	0.0021		0.0010	0.00013	mg/L		09/26/19 12:54	10/03/19 01:51	1
Barium	0.073		0.010	0.0016	mg/L		09/26/19 12:54	10/03/19 01:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 12:54	10/03/19 01:51	1
Copper	0.0063		0.0020	0.00063	mg/L		09/26/19 12:54	10/03/19 01:51	1
Calcium	880		0.50	0.13	mg/L		09/26/19 12:54	10/03/19 01:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/26/19 12:54	10/03/19 01:51	1
Nickel	0.0017		0.0010	0.00034	mg/L		09/26/19 12:54	10/03/19 01:51	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/26/19 12:54	10/03/19 01:51	1
Selenium	0.0082		0.0050	0.0015	mg/L		09/26/19 12:54	10/03/19 01:51	1
Thallium	0.0071		0.0010	0.00015	mg/L		09/26/19 12:54	10/03/19 01:51	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/26/19 12:54	10/03/19 01:51	1
Iron	<0.020		0.050	0.020	mg/L		09/26/19 12:54	10/03/19 01:51	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 12:54	10/03/19 01:51	1
Potassium	110		0.50	0.16	mg/L		09/26/19 12:54	10/03/19 01:51	1
Magnesium	16		0.50	0.083	mg/L		09/26/19 12:54	10/03/19 01:51	1
Manganese	0.027		0.0050	0.0014	mg/L		09/26/19 12:54	10/03/19 01:51	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Client Sample ID: DUP-01

Lab Sample ID: 180-95981-5

Date Collected: 09/19/19 07:00

Matrix: Water

Date Received: 09/20/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	7.7		0.0050	0.00061	mg/L		09/26/19 12:54	10/03/19 01:51	1
Sodium	2000		0.50	0.35	mg/L		09/26/19 12:54	10/03/19 01:51	1
Strontium	7.9		0.0050	0.00076	mg/L		09/26/19 12:54	10/03/19 01:51	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/26/19 12:54	10/03/19 01:51	1
Vanadium	0.14		0.0010	0.00099	mg/L		09/26/19 12:54	10/03/19 01:51	1
Lithium	0.13		0.0050	0.0034	mg/L		09/26/19 12:54	10/03/19 01:51	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 12:54	10/03/19 01:51	1
Silicon	2.0		0.50	0.13	mg/L		09/26/19 12:54	10/03/19 01:51	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:58	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	2300		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	2200		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	66		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.9	J B	5.1	1.4	mg/L		10/02/19 10:19	10/02/19 16:08	1
Ammonia	3.8	B	0.40	0.20	mg/L		10/01/19 06:45	10/01/19 13:30	2
Total Kjeldahl Nitrogen	3.0		0.20	0.15	mg/L		10/02/19 19:45	10/03/19 09:49	1
Nitrate Nitrite as N	0.036	J	0.050	0.020	mg/L			09/30/19 22:14	1
Alkalinity, Total	51	H	5.0	0.79	mg/L			10/05/19 00:29	1
Alkalinity, Bicarbonate	50	H	5.0	0.79	mg/L			10/05/19 00:29	1
Alkalinity, Carbonate	1.1	J H	5.0	0.79	mg/L			10/05/19 00:29	1
Hydroxide Alkalinity	<0.79	H	5.0	0.79	mg/L			10/05/19 00:29	1
Total Dissolved Solids	9900	H	100	40	mg/L			10/01/19 10:29	1
Total Suspended Solids	1.5		0.50	0.50	mg/L			09/24/19 09:54	1
Carbon Dioxide, Free	0.40		0.10	0.10	mg/L			10/21/19 13:52	1
pH	8.4	HF	0.1	0.1	SU			10/01/19 19:14	1
Temperature	20.4	HF	0.001	0.001	Degrees C			10/01/19 19:14	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	1.5		1.0	0.51	mg/L			10/02/19 16:41	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-147625/25
Matrix: Water
Analysis Batch: 147625

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L	-		09/23/19 17:10	1

Lab Sample ID: MB 200-147625/4
Matrix: Water
Analysis Batch: 147625

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L	-		09/23/19 14:08	1

Lab Sample ID: LCS 200-147625/23
Matrix: Water
Analysis Batch: 147625

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	40000	41800		ug/L	-	104	70 - 130

Lab Sample ID: LCSD 200-147625/24
Matrix: Water
Analysis Batch: 147625

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
Carbon dioxide	40000	48300		ug/L	-	121	70 - 130	15	30

Lab Sample ID: MB 200-147653/4
Matrix: Water
Analysis Batch: 147653

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L	-		09/23/19 20:22	1

Lab Sample ID: LCS 200-147653/2
Matrix: Water
Analysis Batch: 147653

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	40000	46600		ug/L	-	117	70 - 130

Lab Sample ID: LCSD 200-147653/3
Matrix: Water
Analysis Batch: 147653

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
Carbon dioxide	40000	48700		ug/L	-	122	70 - 130	4	30

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-292051/35
Matrix: Water
Analysis Batch: 292051

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/20/19 19:08	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/20/19 19:08	1
Fluoride	<0.026		0.10	0.026	mg/L			09/20/19 19:08	1
Chloride	<0.71		1.0	0.71	mg/L			09/20/19 19:08	1
Bromide	<0.087		0.50	0.087	mg/L			09/20/19 19:08	1
Sulfate	<0.38		1.0	0.38	mg/L			09/20/19 19:08	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/20/19 19:08	1

Lab Sample ID: LCS 180-292051/34
Matrix: Water
Analysis Batch: 292051

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	1.25	1.16		mg/L		93	90 - 110
Nitrite as N	1.25	1.24		mg/L		99	90 - 110
Fluoride	1.25	1.22		mg/L		97	90 - 110
Chloride	25.0	25.5		mg/L		102	90 - 110
Bromide	5.00	4.72		mg/L		94	90 - 110
Sulfate	25.0	24.0		mg/L		96	90 - 110
Orthophosphate as P	1.25	1.23		mg/L		99	90 - 110

Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-292738/1-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/26/19 08:59	10/16/19 02:21	1
Aluminum	<0.013		0.030	0.013	mg/L		09/26/19 08:59	10/16/19 02:21	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/26/19 08:59	10/16/19 02:21	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 02:21	1
Boron	<0.039		0.080	0.039	mg/L		09/26/19 08:59	10/16/19 02:21	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 02:21	1
Barium	<0.0016		0.010	0.0016	mg/L		09/26/19 08:59	10/16/19 02:21	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 08:59	10/16/19 02:21	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/26/19 08:59	10/16/19 02:21	1
Calcium	<0.13		0.50	0.13	mg/L		09/26/19 08:59	10/16/19 02:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/26/19 08:59	10/16/19 02:21	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/26/19 08:59	10/16/19 02:21	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/26/19 08:59	10/16/19 02:21	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/26/19 08:59	10/16/19 02:21	1
Thallium	0.000380	J	0.0010	0.00015	mg/L		09/26/19 08:59	10/16/19 02:21	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/26/19 08:59	10/16/19 02:21	1
Iron	<0.020		0.050	0.020	mg/L		09/26/19 08:59	10/16/19 02:21	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 08:59	10/16/19 02:21	1
Potassium	<0.16		0.50	0.16	mg/L		09/26/19 08:59	10/16/19 02:21	1
Magnesium	<0.083		0.50	0.083	mg/L		09/26/19 08:59	10/16/19 02:21	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/26/19 08:59	10/16/19 02:21	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

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

Lab Sample ID: MB 180-292738/1-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/26/19 08:59	10/16/19 02:21	1
Sodium	<0.35		0.50	0.35	mg/L		09/26/19 08:59	10/16/19 02:21	1
Strontium	<0.00076		0.0050	0.00076	mg/L		09/26/19 08:59	10/16/19 02:21	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/26/19 08:59	10/16/19 02:21	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/26/19 08:59	10/16/19 02:21	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/26/19 08:59	10/16/19 02:21	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 08:59	10/16/19 02:21	1

Lab Sample ID: MB 180-292738/1-A
Matrix: Water
Analysis Batch: 295148

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silicon	<0.13	^	0.50	0.13	mg/L		09/26/19 08:59	10/16/19 21:15	1

Lab Sample ID: LCS 180-292738/2-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.267		mg/L		107	80 - 120
Aluminum	5.00	4.59		mg/L		92	80 - 120
Arsenic	1.00	0.975		mg/L		97	80 - 120
Beryllium	0.500	0.528		mg/L		106	80 - 120
Boron	1.25	1.22		mg/L		98	80 - 120
Cadmium	0.500	0.540		mg/L		108	80 - 120
Barium	1.00	0.920		mg/L		92	80 - 120
Chromium	0.500	0.504		mg/L		101	80 - 120
Copper	0.500	0.510		mg/L		102	80 - 120
Calcium	25.0	23.6		mg/L		94	80 - 120
Lead	0.500	0.498		mg/L		100	80 - 120
Nickel	0.500	0.502		mg/L		100	80 - 120
Cobalt	0.500	0.499		mg/L		100	80 - 120
Selenium	1.00	0.955		mg/L		95	80 - 120
Thallium	1.00	0.987		mg/L		99	80 - 120
Zinc	0.250	0.247		mg/L		99	80 - 120
Iron	5.00	4.29		mg/L		86	80 - 120
Silver	0.250	0.249		mg/L		100	80 - 120
Potassium	25.0	23.4		mg/L		93	80 - 120
Magnesium	25.0	23.7		mg/L		95	80 - 120
Manganese	0.500	0.482		mg/L		96	80 - 120
Molybdenum	0.500	0.513		mg/L		103	80 - 120
Sodium	25.0	25.6		mg/L		103	80 - 120
Strontium	0.500	0.463		mg/L		93	80 - 120
Titanium	0.500	0.488		mg/L		98	80 - 120
Vanadium	0.500	0.475		mg/L		95	80 - 120
Lithium	0.500	0.469		mg/L		94	80 - 120
Tin	1.00	1.02		mg/L		102	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

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

Lab Sample ID: LCS 180-292738/2-A
Matrix: Water
Analysis Batch: 295148

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silicon	1.00	0.897	^	mg/L		90	80 - 120

Lab Sample ID: MB 180-292814/1-A
Matrix: Water
Analysis Batch: 293633

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/26/19 12:54	10/03/19 01:13	1
Aluminum	<0.013		0.030	0.013	mg/L		09/26/19 12:54	10/03/19 01:13	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/26/19 12:54	10/03/19 01:13	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/26/19 12:54	10/03/19 01:13	1
Boron	<0.039		0.080	0.039	mg/L		09/26/19 12:54	10/03/19 01:13	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/26/19 12:54	10/03/19 01:13	1
Barium	<0.0016		0.010	0.0016	mg/L		09/26/19 12:54	10/03/19 01:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/26/19 12:54	10/03/19 01:13	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/26/19 12:54	10/03/19 01:13	1
Calcium	<0.13		0.50	0.13	mg/L		09/26/19 12:54	10/03/19 01:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/26/19 12:54	10/03/19 01:13	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/26/19 12:54	10/03/19 01:13	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/26/19 12:54	10/03/19 01:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/26/19 12:54	10/03/19 01:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/26/19 12:54	10/03/19 01:13	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/26/19 12:54	10/03/19 01:13	1
Iron	<0.020		0.050	0.020	mg/L		09/26/19 12:54	10/03/19 01:13	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/26/19 12:54	10/03/19 01:13	1
Potassium	<0.16		0.50	0.16	mg/L		09/26/19 12:54	10/03/19 01:13	1
Magnesium	<0.083		0.50	0.083	mg/L		09/26/19 12:54	10/03/19 01:13	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/26/19 12:54	10/03/19 01:13	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/26/19 12:54	10/03/19 01:13	1
Sodium	<0.35		0.50	0.35	mg/L		09/26/19 12:54	10/03/19 01:13	1
Strontium	<0.00076		0.0050	0.00076	mg/L		09/26/19 12:54	10/03/19 01:13	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/26/19 12:54	10/03/19 01:13	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/26/19 12:54	10/03/19 01:13	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/26/19 12:54	10/03/19 01:13	1
Tin	<0.0018		0.0050	0.0018	mg/L		09/26/19 12:54	10/03/19 01:13	1
Silicon	<0.13		0.50	0.13	mg/L		09/26/19 12:54	10/03/19 01:13	1

Lab Sample ID: LCS 180-292814/2-A
Matrix: Water
Analysis Batch: 293633

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.248		mg/L		99	80 - 120
Arsenic	1.00	0.973		mg/L		97	80 - 120
Beryllium	0.500	0.509		mg/L		102	80 - 120
Boron	1.25	1.18		mg/L		94	80 - 120
Cadmium	0.500	0.493		mg/L		99	80 - 120
Barium	1.00	0.977		mg/L		98	80 - 120
Chromium	0.500	0.500		mg/L		100	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

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

Lab Sample ID: LCS 180-292814/2-A
Matrix: Water
Analysis Batch: 293633

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.500	0.495		mg/L		99	80 - 120
Lead	0.500	0.506		mg/L		101	80 - 120
Nickel	0.500	0.489		mg/L		98	80 - 120
Cobalt	0.500	0.485		mg/L		97	80 - 120
Selenium	1.00	0.958		mg/L		96	80 - 120
Thallium	1.00	1.02		mg/L		102	80 - 120
Zinc	0.250	0.248		mg/L		99	80 - 120
Silver	0.250	0.249		mg/L		100	80 - 120
Manganese	0.500	0.491		mg/L		98	80 - 120
Molybdenum	0.500	0.504		mg/L		101	80 - 120
Strontium	0.500	0.465		mg/L		93	80 - 120
Titanium	0.500	0.493		mg/L		99	80 - 120
Vanadium	0.500	0.488		mg/L		98	80 - 120
Lithium	0.500	0.503		mg/L		101	80 - 120
Tin	1.00	0.966		mg/L		97	80 - 120
Silicon	1.00	1.02		mg/L		102	80 - 120

Lab Sample ID: LCS 180-292814/2-A
Matrix: Water
Analysis Batch: 293760

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5000	5360		ug/L		107	80 - 120
Calcium	25000	24900		ug/L		100	80 - 120
Iron	5000	5240		ug/L		105	80 - 120
Potassium	25000	26400		ug/L		106	80 - 120
Magnesium	25000	26300		ug/L		105	80 - 120
Sodium	25000	26900		ug/L		107	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-293943/1-A
Matrix: Water
Analysis Batch: 294165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:47	1

Lab Sample ID: LCS 180-293943/2-A
Matrix: Water
Analysis Batch: 294165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00252		mg/L		101	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

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

Lab Sample ID: 180-95981-1 MS
Matrix: Water
Analysis Batch: 294165

Client Sample ID: 1S-GS
Prep Type: Total/NA
Prep Batch: 293943
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.000922		mg/L		92	75 - 125

Lab Sample ID: 180-95981-1 MSD
Matrix: Water
Analysis Batch: 294165

Client Sample ID: 1S-GS
Prep Type: Total/NA
Prep Batch: 293943
%Rec. RPD

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000916		mg/L		92	75 - 125	1	20

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-495418/1-A
Matrix: Water
Analysis Batch: 495523

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.80	J	5.0	1.4	mg/L		10/02/19 10:19	10/02/19 16:08	1

Lab Sample ID: LCS 480-495418/2-A
Matrix: Water
Analysis Batch: 495523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495418
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Oil & Grease	40.0	31.10		mg/L		78	78 - 114

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-495150/1-A
Matrix: Water
Analysis Batch: 495213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.166	J	0.20	0.10	mg/L		10/01/19 06:45	10/01/19 12:51	1

Lab Sample ID: LCS 480-495150/2-A
Matrix: Water
Analysis Batch: 495213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495150
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	1.00	0.997		mg/L		100	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-495570/1-A
Matrix: Water
Analysis Batch: 495816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		10/02/19 19:45	10/03/19 09:02	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 480-495570/2-A
Matrix: Water
Analysis Batch: 495816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495570
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.41		mg/L		96	90 - 110

Lab Sample ID: MB 480-495838/1-A
Matrix: Water
Analysis Batch: 496240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		10/03/19 18:05	10/06/19 09:00	1

Lab Sample ID: LCS 480-495838/2-A
Matrix: Water
Analysis Batch: 496240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495838
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.51		mg/L		100	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-495068/4
Matrix: Water
Analysis Batch: 495068

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.020		0.050	0.020	mg/L			09/30/19 21:58	1

Lab Sample ID: LCS 480-495068/5
Matrix: Water
Analysis Batch: 495068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N	1.50	1.50		mg/L		100	90 - 110

Lab Sample ID: 180-95981-1 MS
Matrix: Water
Analysis Batch: 495068

Client Sample ID: 1S-GS
Prep Type: Total/NA
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N	0.054		1.00	1.01		mg/L		96	90 - 110

Lab Sample ID: 180-95981-4 MS
Matrix: Water
Analysis Batch: 495068

Client Sample ID: 2S-GS
Prep Type: Total/NA
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N	0.038	J	1.00	0.980		mg/L		94	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 180-95981-1 DU
Matrix: Water
Analysis Batch: 495068

Client Sample ID: 1S-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.054		0.0593		mg/L		9	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-496193/6
Matrix: Water
Analysis Batch: 496193

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1

Lab Sample ID: LCS 480-496193/7
Matrix: Water
Analysis Batch: 496193

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	94.4		mg/L		94	90 - 110

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

Lab Sample ID: MB 480-495175/1
Matrix: Water
Analysis Batch: 495175

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	<4.0		10	4.0	mg/L			10/01/19 10:29	1

Lab Sample ID: LCS 480-495175/2
Matrix: Water
Analysis Batch: 495175

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	500	450		mg/L		90	85 - 115

Lab Sample ID: 180-95981-1 DU
Matrix: Water
Analysis Batch: 495175

Client Sample ID: 1S-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	5300	H	5320		mg/L		0.4	10

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 180-292382/2
Matrix: Water
Analysis Batch: 292382

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/24/19 09:54	1

Lab Sample ID: LCS 180-292382/1
Matrix: Water
Analysis Batch: 292382

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	82.3	82.0		mg/L		100	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-495554/1
Matrix: Water
Analysis Batch: 495554

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: 180-95981-1 DU
Matrix: Water
Analysis Batch: 495554

Client Sample ID: 1S-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.3	HF	8.4		SU		0.5	5
Temperature	20.5	HF	20.5		Degrees C		0.2	10

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-495438/27
Matrix: Water
Analysis Batch: 495438

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1

Lab Sample ID: LCS 480-495438/28
Matrix: Water
Analysis Batch: 495438

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.200	0.185		mg/L		92	90 - 110

Method: SM 5310C - Total Organic Carbon

Lab Sample ID: MB 180-293568/6
Matrix: Water
Analysis Batch: 293568

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/02/19 14:56	1

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Method: SM 5310C - Total Organic Carbon (Continued)

Lab Sample ID: LCS 180-293568/4
Matrix: Water
Analysis Batch: 293568

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	20.0	19.6		mg/L		98	85 - 115

Lab Sample ID: LCSD 180-293568/5
Matrix: Water
Analysis Batch: 293568

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
Total Organic Carbon - Duplicates	20.0	19.4		mg/L		97	85 - 115	1	20

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

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

GC VOA

Analysis Batch: 147625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	RSK-175	
180-95981-2	1D-GS	Total/NA	Water	RSK-175	
180-95981-3	2D-GS	Total/NA	Water	RSK-175	
180-95981-4	2S-GS	Total/NA	Water	RSK-175	
MB 200-147625/25	Method Blank	Total/NA	Water	RSK-175	
MB 200-147625/4	Method Blank	Total/NA	Water	RSK-175	
LCS 200-147625/23	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-147625/24	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 147653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-5	DUP-01	Total/NA	Water	RSK-175	
MB 200-147653/4	Method Blank	Total/NA	Water	RSK-175	
LCS 200-147653/2	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-147653/3	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 292051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-1	1S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-2	1D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-2	1D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-3	2D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-3	2D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-4	2S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-4	2S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-95981-5	DUP-01	Total/NA	Water	EPA 300.0 R2.1	
180-95981-5	DUP-01	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292051/35	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292051/34	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Analysis Batch: 292462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total Recoverable	Water	SM 2340B	
180-95981-2	1D-GS	Total Recoverable	Water	SM 2340B	
180-95981-3	2D-GS	Total Recoverable	Water	SM 2340B	
180-95981-4	2S-GS	Total Recoverable	Water	SM 2340B	
180-95981-5	DUP-01	Total Recoverable	Water	SM 2340B	

Prep Batch: 292738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total Recoverable	Water	3005A	
180-95981-2	1D-GS	Total Recoverable	Water	3005A	
180-95981-3	2D-GS	Total Recoverable	Water	3005A	
180-95981-4	2S-GS	Total Recoverable	Water	3005A	
MB 180-292738/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292738/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Metals

Prep Batch: 292814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-5	DUP-01	Total Recoverable	Water	3005A	
MB 180-292814/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292814/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 293633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-5	DUP-01	Total Recoverable	Water	EPA 6020	292814
MB 180-292814/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292814
LCS 180-292814/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292814

Analysis Batch: 293760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-292814/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292814

Prep Batch: 293943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	7470A	
180-95981-2	1D-GS	Total/NA	Water	7470A	
180-95981-3	2D-GS	Total/NA	Water	7470A	
180-95981-4	2S-GS	Total/NA	Water	7470A	
180-95981-5	DUP-01	Total/NA	Water	7470A	
MB 180-293943/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293943/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-95981-1 MS	1S-GS	Total/NA	Water	7470A	
180-95981-1 MSD	1S-GS	Total/NA	Water	7470A	

Analysis Batch: 294165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	EPA 7470A	293943
180-95981-2	1D-GS	Total/NA	Water	EPA 7470A	293943
180-95981-3	2D-GS	Total/NA	Water	EPA 7470A	293943
180-95981-4	2S-GS	Total/NA	Water	EPA 7470A	293943
180-95981-5	DUP-01	Total/NA	Water	EPA 7470A	293943
MB 180-293943/1-A	Method Blank	Total/NA	Water	EPA 7470A	293943
LCS 180-293943/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293943
180-95981-1 MS	1S-GS	Total/NA	Water	EPA 7470A	293943
180-95981-1 MSD	1S-GS	Total/NA	Water	EPA 7470A	293943

Analysis Batch: 295123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total Recoverable	Water	EPA 6020	292738
180-95981-2	1D-GS	Total Recoverable	Water	EPA 6020	292738
180-95981-3	2D-GS	Total Recoverable	Water	EPA 6020	292738
180-95981-4	2S-GS	Total Recoverable	Water	EPA 6020	292738
MB 180-292738/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292738
LCS 180-292738/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292738

Analysis Batch: 295148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total Recoverable	Water	EPA 6020	292738
180-95981-2	1D-GS	Total Recoverable	Water	EPA 6020	292738

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

Metals (Continued)

Analysis Batch: 295148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-3	2D-GS	Total Recoverable	Water	EPA 6020	292738
180-95981-4	2S-GS	Total Recoverable	Water	EPA 6020	292738
MB 180-292738/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292738
LCS 180-292738/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292738

General Chemistry

Analysis Batch: 292382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 2540D	
180-95981-2	1D-GS	Total/NA	Water	SM 2540D	
180-95981-3	2D-GS	Total/NA	Water	SM 2540D	
180-95981-4	2S-GS	Total/NA	Water	SM 2540D	
180-95981-5	DUP-01	Total/NA	Water	SM 2540D	
MB 180-292382/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 180-292382/1	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 293568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 5310C	
180-95981-2	1D-GS	Total/NA	Water	SM 5310C	
180-95981-3	2D-GS	Total/NA	Water	SM 5310C	
180-95981-4	2S-GS	Total/NA	Water	SM 5310C	
180-95981-5	DUP-01	Total/NA	Water	SM 5310C	
MB 180-293568/6	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-293568/4	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-293568/5	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 495068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	353.2	
180-95981-2	1D-GS	Total/NA	Water	353.2	
180-95981-3	2D-GS	Total/NA	Water	353.2	
180-95981-4	2S-GS	Total/NA	Water	353.2	
180-95981-5	DUP-01	Total/NA	Water	353.2	
MB 480-495068/4	Method Blank	Total/NA	Water	353.2	
LCS 480-495068/5	Lab Control Sample	Total/NA	Water	353.2	
180-95981-1 MS	1S-GS	Total/NA	Water	353.2	
180-95981-4 MS	2S-GS	Total/NA	Water	353.2	
180-95981-1 DU	1S-GS	Total/NA	Water	353.2	

Prep Batch: 495150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	Distill/Ammonia	
180-95981-2	1D-GS	Total/NA	Water	Distill/Ammonia	
180-95981-3	2D-GS	Total/NA	Water	Distill/Ammonia	
180-95981-4	2S-GS	Total/NA	Water	Distill/Ammonia	
180-95981-5	DUP-01	Total/NA	Water	Distill/Ammonia	
MB 480-495150/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-495150/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

General Chemistry

Analysis Batch: 495175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 2540C	
180-95981-2	1D-GS	Total/NA	Water	SM 2540C	
180-95981-3	2D-GS	Total/NA	Water	SM 2540C	
180-95981-4	2S-GS	Total/NA	Water	SM 2540C	
180-95981-5	DUP-01	Total/NA	Water	SM 2540C	
MB 480-495175/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-495175/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-95981-1 DU	1S-GS	Total/NA	Water	SM 2540C	

Analysis Batch: 495213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	350.1	495150
MB 480-495150/1-A	Method Blank	Total/NA	Water	350.1	495150
LCS 480-495150/2-A	Lab Control Sample	Total/NA	Water	350.1	495150

Analysis Batch: 495217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-2	1D-GS	Total/NA	Water	350.1	495150
180-95981-3	2D-GS	Total/NA	Water	350.1	495150
180-95981-4	2S-GS	Total/NA	Water	350.1	495150
180-95981-5	DUP-01	Total/NA	Water	350.1	495150

Prep Batch: 495418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	1664B	
180-95981-2	1D-GS	Total/NA	Water	1664B	
180-95981-3	2D-GS	Total/NA	Water	1664B	
180-95981-4	2S-GS	Total/NA	Water	1664B	
180-95981-5	DUP-01	Total/NA	Water	1664B	
MB 480-495418/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-495418/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 495438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 4500 P E	
180-95981-2	1D-GS	Total/NA	Water	SM 4500 P E	
180-95981-3	2D-GS	Total/NA	Water	SM 4500 P E	
180-95981-4	2S-GS	Total/NA	Water	SM 4500 P E	
180-95981-5	DUP-01	Total/NA	Water	SM 4500 P E	
MB 480-495438/27	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-495438/28	Lab Control Sample	Total/NA	Water	SM 4500 P E	

Analysis Batch: 495523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	1664B	495418
180-95981-2	1D-GS	Total/NA	Water	1664B	495418
180-95981-3	2D-GS	Total/NA	Water	1664B	495418
180-95981-4	2S-GS	Total/NA	Water	1664B	495418
180-95981-5	DUP-01	Total/NA	Water	1664B	495418
MB 480-495418/1-A	Method Blank	Total/NA	Water	1664B	495418
LCS 480-495418/2-A	Lab Control Sample	Total/NA	Water	1664B	495418

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

General Chemistry

Analysis Batch: 495554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 4500 H+ B	
180-95981-2	1D-GS	Total/NA	Water	SM 4500 H+ B	
180-95981-3	2D-GS	Total/NA	Water	SM 4500 H+ B	
180-95981-4	2S-GS	Total/NA	Water	SM 4500 H+ B	
180-95981-5	DUP-01	Total/NA	Water	SM 4500 H+ B	
LCS 480-495554/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
180-95981-1 DU	1S-GS	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 495570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	351.2	
180-95981-2	1D-GS	Total/NA	Water	351.2	
180-95981-3	2D-GS	Total/NA	Water	351.2	
180-95981-5	DUP-01	Total/NA	Water	351.2	
MB 480-495570/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-495570/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 495816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	351.2	495570
180-95981-2	1D-GS	Total/NA	Water	351.2	495570
180-95981-3	2D-GS	Total/NA	Water	351.2	495570
180-95981-5	DUP-01	Total/NA	Water	351.2	495570
MB 480-495570/1-A	Method Blank	Total/NA	Water	351.2	495570
LCS 480-495570/2-A	Lab Control Sample	Total/NA	Water	351.2	495570

Prep Batch: 495838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-4	2S-GS	Total/NA	Water	351.2	
MB 480-495838/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-495838/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 496193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 2320B	
180-95981-2	1D-GS	Total/NA	Water	SM 2320B	
180-95981-3	2D-GS	Total/NA	Water	SM 2320B	
180-95981-4	2S-GS	Total/NA	Water	SM 2320B	
180-95981-5	DUP-01	Total/NA	Water	SM 2320B	
MB 480-496193/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-496193/7	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 496240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-4	2S-GS	Total/NA	Water	351.2	495838
MB 480-495838/1-A	Method Blank	Total/NA	Water	351.2	495838
LCS 480-495838/2-A	Lab Control Sample	Total/NA	Water	351.2	495838

Analysis Batch: 499249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	SM 4500 CO2 B	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-1

General Chemistry (Continued)

Analysis Batch: 499249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-2	1D-GS	Total/NA	Water	SM 4500 CO2 B	
180-95981-3	2D-GS	Total/NA	Water	SM 4500 CO2 B	
180-95981-4	2S-GS	Total/NA	Water	SM 4500 CO2 B	
180-95981-5	DUP-01	Total/NA	Water	SM 4500 CO2 B	

- 1
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- 13

Chain of Custody Record

Client Information Client Contact: Ms. Lauren Petty Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-5417(Tel) Email: Impetty@southernco.com Project Name: CCR - Plant Watson Special AP Site:		Lab PM: <i>Travis Bortol</i> Lab: <i>Veronica</i> E-Mail: <i>veronica.bortol@testamericainc.com</i>		Carrier Tracking No(s): COC No: 180-54585-11376.1 Page: Page 1 of 3 Job #:	
Sample Information Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 18020186 SSOW #:		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 9315_Ra226, 9320_Ra228 <input checked="" type="checkbox"/> 2320B_2540C_Calcd, SM4500_H+ <input checked="" type="checkbox"/> 6020_7470A <input checked="" type="checkbox"/> 350_1_351_2_353_2_Pres, 4500_P_E <input checked="" type="checkbox"/> 300_ORGMS - ortho Phos Bromide, Cl, SO4, F <input checked="" type="checkbox"/> 5310C - TOC <input checked="" type="checkbox"/> 2540D - TSS <input checked="" type="checkbox"/> RSK_175_CO2 - CarbonDioxide <input checked="" type="checkbox"/> 1664B - Oil and Grease <input checked="" type="checkbox"/>			
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=waste/oil, BT=tissue, AS=air)		Preservation Codes: A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 G - Amchlor H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4.5 L - EDA Other:			
Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=waste/oil, BT=tissue, AS=air)		Special Instructions/Note: Total Number of containers:			
1S-GS 2D-GS 2D-GS 2S-GS Dwd-01		9-19-19 1102 G Water 9-19-19 1658 G Water 9-19-19 1440 G Water 9-19-19 1729 G Water 9-19-19 0200 G Water Water Water Water Water Water			
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:			
Relinquished by: <i>Travis Bortol</i>		Date/Time: 9-19-19 1720 Company: <i>CSA</i>			
Relinquished by:		Date/Time: 9-19-19 845 Company: <i>DMV</i>			
Relinquished by:		Date/Time: Company:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:			



180-95981 Chain of Custody

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: *DMV*
 Date/Time: 9/20/19 845
 Company: *DMV*
 Received by:
 Date/Time:
 Company:
 Received by:
 Date/Time:
 Company:

Do Not Lift Using This Tag

Recipient's Name Please print.

Phone Number

Part # 15629-56711/9304/05R2 12/19

ORIGIN ID: BIXA (850) 336-0192
RICK HAYDORFOR
RDH ENVIRONMENTAL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

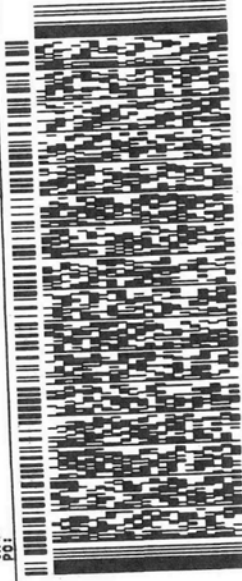
SHIP DATE: 19SEP19
ACTWT: 66.70 LB
CAD: 6993600/SSFE2021
DIMS: 24X19X13 IN
BILL THIRD PARTY

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (000) 000-0000
UNIT: PO1

DEPT:



FRI - 20 SEP 10:30A
PRIORITY OVERNIGHT

MPS# 7899 3070 6156
0263
Mstr# 7899 3070 6145
0201

XH AGCA 15238
PA-US PIT

°C

Uncorrected temp
Thermometer ID
CF 0 Initials TS

PT-WI-SR-001 effective 11/8/18



180-95981 Waybill

ORIGIN ID: BIXA (850) 336-0192
RICK HAYDORFOR
RDH ENVIRONMENTAL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

P19
ACTWT: 66.70 LB
CAD: 6993600/SSFE2021
DIMS: 24X19X13 IN
BILL THIRD PARTY

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (000) 000-0000
UNIT: PO1

DEPT:



FRI - 20 SEP 10:30A
PRIORITY OVERNIGHT

1 of 2
TRK# 7899 3070 6145
0201
MASTER

XH AGCA 15238
PA-US PIT

Uncorrected temp
Thermometer ID
CF 0 Initials TS

PT-WI-SR-001 effective 11/8/18

Do Not Lift Using This Tag

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- 13

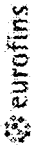
Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Bortol, Veronica Shipping/Receiving: veronica.bortol@testamericainc.com Company: TestAmerica Laboratories, Inc. Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email: Project Name: CCR - Plant Watson Site:		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Carrier Tracking No(s): 180-374217.1 State of Origin: Georgia Page 1 of 1 Job #: 180-95981-1 Accreditations Required (See note):	
Due Date Requested: 10/2/2019 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 - Client ID (Lab ID)		Analysis Requested	
Sample Date Sample Time Sample Type (C=Comp, G=grab) (BT=Tissue, A=Air) Matrix (W=water, S=solid, O=water/oil) Preservation Codes:	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 9315 Ra226/PrecSep_21 Radium 226 9320 Ra228/PrecSep_0 Radium 228 Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
1S-GS (180-95981-1) 1D-GS (180-95981-2) 2D-GS (180-95981-3) 2S-GS (180-95981-4) DUP-01 (180-95981-5)	9/19/19 11:02 Eastern Water 9/19/19 11:55 Eastern Water 9/19/19 14:40 Eastern Water 9/19/19 14:29 Eastern Water 9/19/19 07:00 Eastern Water	X X X X X	X X X X X
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.		Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2 Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date/Time: 9/23/19 17:00:00 Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C 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 _____ Months		Special Instructions/QC Requirements:	



Chain of Custody Record



TestAmerica

Client Information Client Contact: Ms. Lauren Petty Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-982-5417(Tel) Email: impetty@southernco.com Project Name: CCR - Plant Watson Special AP Site:		Lab Pkt: Veronica Bortot, Veronica Bortot E-Mail: veronica.bortot@testamerica.com Phone: 850-336-0192		Carrier Tracking No(s): COC No: 180-54585-11376.1 Page: Page 1 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #:		Analysis Requested			
Sample Identification IS-GS LD-GS 2D-GS 2S-GS DWP-01		Sample Date: 9-19-19 9-19-19 9-19-19 9-19-19 9-19-19	Sample Time: 1102 G 1155 G 1440 G 1729 G 0200 G	Sample Type (G=comp, G=grab) G G G G G	Matrix (Water, Solid, Other) Water Water Water Water Water Water Water Water Water
9315_Ra2226_9320_Ra228 2320B_2540C_Calcd_5M4500_H+ 6020_7470A 350.1_351.2_353.2_Pres_4500_P_E 300_ORGMS - ortho Phos Bromide, Cl, SO4, T 5310C - TOC 2540D - TSS RSK_175_CO2_CarbonDioxide 1664B - Oil and Grease		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 R - Na2SO3 F - MeOH 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:			
Special Instructions/Note: 180-95981 Chain of Custody		Special Instructions/Note: 180-95981 Chain of Custody			
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> Date/Time: 9-19-19 1720 Company: SSA em		Relinquished by: <i>[Signature]</i> Date/Time: 9/20/19 845 Company: MDA			
Relinquished by: <i>[Signature]</i> Date/Time:		Relinquished by: <i>[Signature]</i> Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:			



ORIGIN ID:AGCA (412) 963-7058
EUROFINS TESTAMERICA PITTSBURGH
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE

SHIP DATE: 20SEP19
ACTWGT: 45.00 LB MAN
CAD: 741733/CAFE3211

PITTSBURGH, PA 152381330
UNITED STATES US

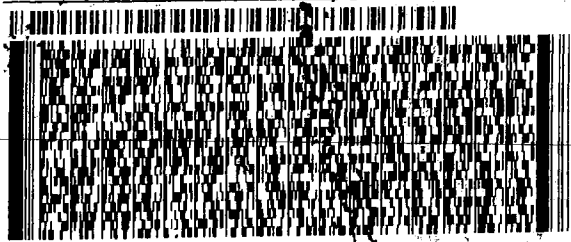
BILL SENDER

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 860-1980
PO: YES

REF: 8180-54723

DEPT: SAMPLE/RECEIVING



FedEx
Express



J181118060501 BY

2 of 3

MPS# 0263 4818 7135 1101

Mstr# 4818 7135 1097

0201

XO BTVA

SATURDAY 12:00P
PRIORITY OVERNIGHT

05403

VT-US BTV



ORIGIN ID:AGCA (412) 963-7058
EUROFINS TESTAMERICA PITTSBURGH
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE

SHIP DATE: 20SEP19
ACTWGT: 45.00 LB MAN
CAD: 741733/CAFE3211

PITTSBURGH, PA 152381330
UNITED STATES US

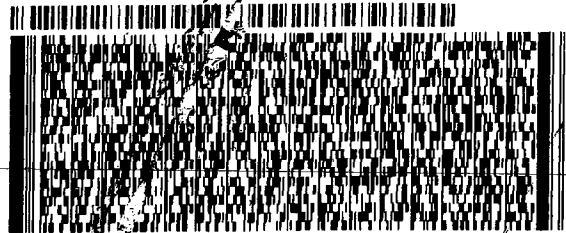
BILL SENDER

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 860-1980
PO: YES

REF: 8180-54723

DEPT: SAMPLE/RECEIVING



FedEx
Express



3 of 3

MPS# 0263 4818 7135 1112

Mstr# 4818 7135 1097

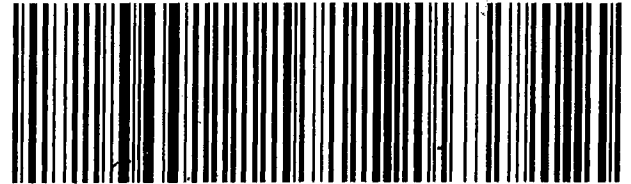
0201

XO BTVA

SATURDAY 12:00P
PRIORITY OVERNIGHT

05403

VT-US BTV



SHIP DATE: 20SEP19
ACTWGT: 45.00 LB MAN
CAD: 741733/CAFE3211

BILL SENDER

ORIGIN ID:AGCA (412) 963-7058
EUROFINS TESTAMERICA PITTSBURGH
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE

PITTSBURGH, PA 152381330
UNITED STATES US

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
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FedEx
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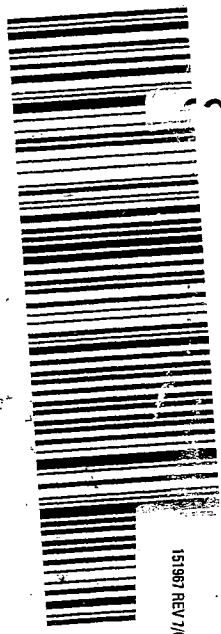
SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 4818 7135 1097

MASTER

XO BTVA

05403
VT-US BTV



151987 REV 7/10

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95981-1

Login Number: 95981

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95981-1

Login Number: 95981
List Number: 4
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo
List Creation: 09/30/19 06:50 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	3.3, 2.5 ir gun #1 ice
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95981-1

Login Number: 95981
List Number: 2
Creator: Hall, Samuel C

List Source: Eurofins TestAmerica, Burlington
List Creation: 09/21/19 01:34 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	2.1°C, 3.9°C, 3.6°C
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?	N/A	Received project as a subcontract.
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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-95981-2
Laboratory Sample Delivery Group: 1
Client Project/Site: CCR - Plant Watson

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
10/31/2019 9:45:27 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

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results through
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www.testamericainc.com

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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Job ID: 180-95981-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-95981-2

Comments

No additional comments.

Receipt

The samples were received on 9/20/2019 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 1.7° C.

Receipt Exceptions

The containers provided for the following samples did not match the information listed on the Chain-of-Custody (COC): 2S-GS (180-95981-4) and DUP-01 (180-95981-5). No containers were provided for Oil and Grease, RAD, and Metals analysis. Analysis was cancelled for these tests until further instruction from the PM.

Information from PM on 10/9/2019:

Client couldn't fill all the containers before fed ex location closed; He sent what he had - he did have short holds collected hence the need to send that day; He then went back to the site to fill the sample containers he didn't fill; He called me in the morning to let me know that we would be missing some containers ; sample volumes for these missing parameters were sent with the next shipment.

RAD

Methods 903.0, 9315: Radium-226 prep batch 160-444126-

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4), DUP-01 (180-95981-5), (LCS 160-444126/1-A), (LCSD 160-444126/2-A) and (MB 160-444126/23-A)

Methods 904.0, 9320: Ra-228 Prep Batch 160-444140

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4), DUP-01 (180-95981-5), (LCS 160-444140/1-A), (LCSD 160-444140/2-A) and (MB 160-444140/23-A)

Method PrecSep_0: Radium 228 Prep Batch 160-444140:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4) and DUP-01 (180-95981-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-444126:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 1S-GS (180-95981-1), 1D-GS (180-95981-2), 2D-GS (180-95981-3), 2S-GS (180-95981-4) and DUP-01 (180-95981-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Job ID: 180-95981-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

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

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 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	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)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
 SDG: 1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
 SDG: 1

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19
Iowa	State	373	09-17-20
Iowa	State Program	373	12-01-20
Kansas	NELAP	E-10236	10-31-19 *
Kentucky (DW)	State	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
Washington	State Program	C592	08-30-20
West Virginia DEP	State	381	10-31-19
West Virginia DEP	State Program	381	10-31-19 *

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

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95981-1	1S-GS	Water	09/19/19 11:02	09/20/19 08:45	
180-95981-2	1D-GS	Water	09/19/19 11:55	09/20/19 08:45	
180-95981-3	2D-GS	Water	09/19/19 14:40	09/20/19 08:45	
180-95981-4	2S-GS	Water	09/19/19 14:29	09/20/19 08:45	
180-95981-5	DUP-01	Water	09/19/19 07:00	09/20/19 08:45	

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Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 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
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Client Sample ID: 1S-GS

Lab Sample ID: 180-95981-1

Date Collected: 09/19/19 11:02

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.70 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 12:46	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.70 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:25	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 1D-GS

Lab Sample ID: 180-95981-2

Date Collected: 09/19/19 11:55

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.56 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 12:46	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.56 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:25	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 2D-GS

Lab Sample ID: 180-95981-3

Date Collected: 09/19/19 14:40

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.98 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 12:46	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.98 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:25	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 2S-GS

Lab Sample ID: 180-95981-4

Date Collected: 09/19/19 14:29

Matrix: Water

Date Received: 09/20/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.50 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 12:46	KLS	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Client Sample ID: 2S-GS

Date Collected: 09/19/19 14:29

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.50 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:25	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Date Collected: 09/19/19 07:00

Date Received: 09/20/19 08:45

Lab Sample ID: 180-95981-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.87 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 12:46	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.87 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445782	10/11/19 08:27	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

EJQ = Erin Quinn

Batch Type: Analysis

AJD = Audra DeMariano

KLS = Kody Saulters

SMP = Siobhan Perry

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Client Sample ID: 1S-GS

Lab Sample ID: 180-95981-1

Date Collected: 09/19/19 11:02

Matrix: Water

Date Received: 09/20/19 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.347		0.132	0.136	1.00	0.154	pCi/L	09/25/19 11:11	10/18/19 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					09/25/19 11:11	10/18/19 12:46	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		0.237	0.240	1.00	0.354	pCi/L	09/25/19 12:09	10/11/19 08:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					09/25/19 12:09	10/11/19 08:25	1
Y Carrier	92.3		40 - 110					09/25/19 12:09	10/11/19 08:25	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	0.787		0.271	0.276	5.00	0.354	pCi/L		10/24/19 08:44	1

Client Sample ID: 1D-GS

Lab Sample ID: 180-95981-2

Date Collected: 09/19/19 11:55

Matrix: Water

Date Received: 09/20/19 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.66		0.297	0.381	1.00	0.134	pCi/L	09/25/19 11:11	10/18/19 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					09/25/19 11:11	10/18/19 12:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.71		0.321	0.357	1.00	0.327	pCi/L	09/25/19 12:09	10/11/19 08:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					09/25/19 12:09	10/11/19 08:25	1
Y Carrier	88.6		40 - 110					09/25/19 12:09	10/11/19 08:25	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Client Sample ID: 1D-GS

Lab Sample ID: 180-95981-2

Date Collected: 09/19/19 11:55

Matrix: Water

Date Received: 09/20/19 08:45

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	4.37		0.437	0.522	5.00	0.327	pCi/L		10/24/19 08:44	1

Client Sample ID: 2D-GS

Lab Sample ID: 180-95981-3

Date Collected: 09/19/19 14:40

Matrix: Water

Date Received: 09/20/19 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.48		0.290	0.366	1.00	0.148	pCi/L	09/25/19 11:11	10/18/19 12:46	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	91.0		40 - 110					09/25/19 11:11	10/18/19 12:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.42		0.416	0.521	1.00	0.342	pCi/L	09/25/19 12:09	10/11/19 08:25	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	91.0		40 - 110					09/25/19 12:09	10/11/19 08:25	1
<i>Y Carrier</i>	87.9		40 - 110					09/25/19 12:09	10/11/19 08:25	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	5.90		0.507	0.637	5.00	0.342	pCi/L		10/24/19 08:44	1

Client Sample ID: 2S-GS

Lab Sample ID: 180-95981-4

Date Collected: 09/19/19 14:29

Matrix: Water

Date Received: 09/20/19 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.293		0.127	0.129	1.00	0.158	pCi/L	09/25/19 11:11	10/18/19 12:46	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	91.2		40 - 110					09/25/19 11:11	10/18/19 12:46	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Client Sample ID: 2S-GS

Lab Sample ID: 180-95981-4

Date Collected: 09/19/19 14:29

Matrix: Water

Date Received: 09/20/19 08:45

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.667		0.289	0.296	1.00	0.420	pCi/L	09/25/19 12:09	10/11/19 08:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					09/25/19 12:09	10/11/19 08:25	1
Y Carrier	84.5		40 - 110					09/25/19 12:09	10/11/19 08:25	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	0.960		0.316	0.323	5.00	0.420	pCi/L		10/24/19 08:44	1

Client Sample ID: DUP-01

Lab Sample ID: 180-95981-5

Date Collected: 09/19/19 07:00

Matrix: Water

Date Received: 09/20/19 08:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.374		0.133	0.137	1.00	0.148	pCi/L	09/25/19 11:11	10/18/19 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					09/25/19 11:11	10/18/19 12:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.712		0.309	0.316	1.00	0.453	pCi/L	09/25/19 12:09	10/11/19 08:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					09/25/19 12:09	10/11/19 08:27	1
Y Carrier	86.4		40 - 110					09/25/19 12:09	10/11/19 08:27	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	1.09		0.336	0.344	5.00	0.453	pCi/L		10/24/19 08:44	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-444126/23-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444126

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02198	U	0.0850	0.0850	1.00	0.157	pCi/L	09/25/19 11:11	10/18/19 12:48	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier								
Ba Carrier	90.1		40 - 110			09/25/19 11:11	10/18/19 12:48	1		

Lab Sample ID: LCS 160-444126/1-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444126

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.118		0.984	1.00	0.109	pCi/L	80	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	90.4			40 - 110					

Lab Sample ID: LCSD 160-444126/2-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444126

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	11.4	10.58		1.12	1.00	0.140	pCi/L	93	75 - 125	0.70	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits			Prepared	Analyzed	Dil Fac			
Ba Carrier	88.4			40 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-444140/23-A
Matrix: Water
Analysis Batch: 445782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444140

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2824	U	0.246	0.247	1.00	0.394	pCi/L	09/25/19 12:09	10/11/19 08:28	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		90.1					40 - 110	09/25/19 12:09
Y Carrier	86.7		40 - 110			09/25/19 12:09	10/11/19 08:28	1		

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
 SDG: 1

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

Lab Sample ID: LCS 160-444140/1-A
Matrix: Water
Analysis Batch: 445862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444140

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.50	10.42		1.18	1.00	0.410	pCi/L	110	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.4		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: LCSD 160-444140/2-A
Matrix: Water
Analysis Batch: 445862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444140

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	9.50	9.714		1.12	1.00	0.393	pCi/L	102	75 - 125	0.31	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	88.4		40 - 110
Y Carrier	87.9		40 - 110

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-95981-2
SDG: 1

Rad

Prep Batch: 444126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	PrecSep-21	
180-95981-2	1D-GS	Total/NA	Water	PrecSep-21	
180-95981-3	2D-GS	Total/NA	Water	PrecSep-21	
180-95981-4	2S-GS	Total/NA	Water	PrecSep-21	
180-95981-5	DUP-01	Total/NA	Water	PrecSep-21	
MB 160-444126/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-444126/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-444126/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 444140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95981-1	1S-GS	Total/NA	Water	PrecSep_0	
180-95981-2	1D-GS	Total/NA	Water	PrecSep_0	
180-95981-3	2D-GS	Total/NA	Water	PrecSep_0	
180-95981-4	2S-GS	Total/NA	Water	PrecSep_0	
180-95981-5	DUP-01	Total/NA	Water	PrecSep_0	
MB 160-444140/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-444140/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-444140/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Chain of Custody Record

Client Information Client Contact: Ms. Lauren Petty Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State/Zip: AL, 35291 Phone: 205-992-5417(Tel) Email: Impetty@southernco.com Project Name: CCR - Plant Watson Special AP Site:		Lab PM: <i>Travis Bortol</i> Lab: <i>Veronica</i> E-Mail: <i>veronica.bortol@testamericainc.com</i>		Carrier Tracking No(s): COC No: 180-54585-11376.1 Page: Page 1 of 3 Job #:	
Sample Information Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #:		Analysis Requested 300_ORGMS - ortho Phos Bromide, Cl, SO4, F 5310C - TOC 2540D - TSS 1664B - Oil and Grease		Preservation Codes: A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - NaHSO4 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 (W=water, S=solid, O=waste/oil, BT=tissue, AS=air)		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		Total Number of Containers Special Instructions/Note:	
1S-GS 2D-GS 2S-GS Dwd-01	9-19-19 9-19-19 9-19-19 9-19-19 9-19-19	1102 1658 1440 1729 0200	G G G G G	Water Water Water Water Water	X X X X X
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: 1, 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	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <i>Travis Bortol</i>		Date/Time: 9-19-19 1720		Date/Time: 9/20/19 845	
Relinquished by:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



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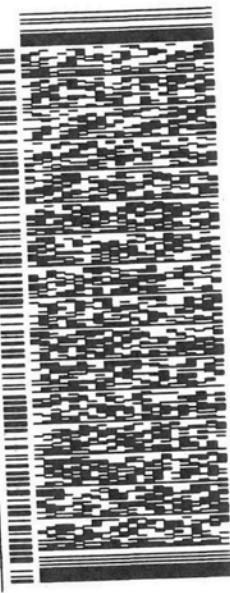
ORIGIN ID: BIXA (850) 336-0192
RICK HAYDORFOR
RDH ENVIRONMENTAL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 19SEP19
ACTWT: 66.70 LB
CAD: 6993600/SSFE2021
DIMS: 24X19X13 IN
BILL THIRD PARTY

TO **SAMPLE CONTROL**
TA PITTSBURGH
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PITTSBURGH PA 15238

REF: (000) 000-0000
DEPT: 0201



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FRI - 20 SEP 10:30A
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0201

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PA-US PIT

Uncorrected temp Thermometer ID
CF 0 Initials TB
PT-WI-SR-001 effective 11/8/18



180-95981 Waybill

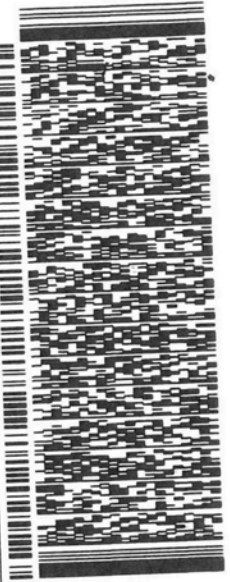
ORIGIN ID: BIXA (850) 336-0192
RICK HAYDORFOR
RDH ENVIRONMENTAL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

P19
ACTWT: 66.70 LB
CAD: 6993600/SSFE2021
DIMS: 24X19X13 IN
BILL THIRD PARTY

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (000) 000-0000
DEPT: 0201



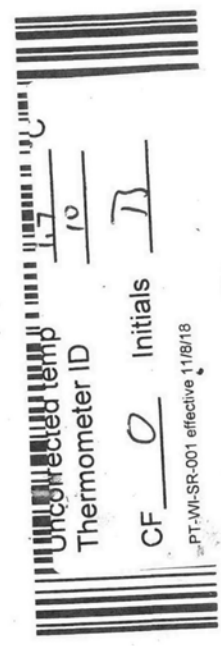
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FRI - 20 SEP 10:30A
PRIORITY OVERNIGHT

1 of 2
TRK# 7899 3070 6145
0201
MASTER

XH AGCA
15238
PA-US PIT

Uncorrected temp Thermometer ID
CF 0 Initials TB
PT-WI-SR-001 effective 11/8/18



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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95981-2

SDG Number: 1

Login Number: 95981

List Number: 1

Creator: Say, Thomas C

List Source: Eurofins TestAmerica, Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95981-2

SDG Number: 1

Login Number: 95981

List Number: 3

Creator: Harris, Lorin C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 09/24/19 05:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
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.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-96046-1
Client Project/Site: CCR - Plant Watson

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
10/24/2019 4:44:39 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@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.

PA Lab ID: 02-00416

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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Job ID: 180-96046-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-96046-1

Comments

No additional comments.

Receipt

The samples were received on 9/21/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.3° C, 1.6° C, 1.6° C, 3.4° C and 3.4° C.

GC VOA

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

GC Semi VOA

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

Metals

Methods 6020, 6020A: The following sample was diluted due to the nature of the sample matrix: 4D-GS (180-96046-1). Elevated reporting limits (RLs) are provided.

Methods 6020, 6020A, 6020B: The ICSAB for batch 180-295148 was outside the acceptance limits for element: silicon. Elevated concentration of silicon within the stock reagent is suspected.

Method 6020: The low level continuing calibration verification (CCVL) associated with batch 180-295148 recovered above the upper control limit for sodium. The samples associated with this CCVL were 10x the RL for the affected analytes; therefore, the data have been reported.

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

General Chemistry

Method SM 5310C: The RPD between the duplicate analyses was >10%. The difference between the results was less than the reporting limit; therefore the results are reported with this NCM.

4D-GS (180-96046-1)

Method SM 5310C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 180-294515. LCS/LCSD analyzed.

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), EB-01 (180-96046-6) and (180-96046-F-3 DU). The reporting limits (RLs) have been adjusted proportionately.

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: DUP-02 (180-96046-8). The reporting limits (RLs) have been adjusted proportionately.

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8).

Method SM 2540C: Reanalysis of the following samples were performed outside of the analytical holding time due to confirmation of over-residue; both results are reported : 4D-GS (180-96046-1) and 6D-GS (180-96046-5).

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 4D-GS (180-96046-1) and 6D-GS (180-96046-5). The reporting limits (RLs) have been adjusted proportionately.

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Job ID: 180-96046-1 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

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

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
California	State	2931	04-01-20
Connecticut	State	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	03-31-20
Georgia	State Program	10026 (NY)	03-31-20
Georgia (DW)	State	956	03-31-20
Iowa	State	374	02-28-21
Kansas	NELAP	E-10187	01-31-20
Kentucky (DW)	State	90029	12-31-20
Kentucky (UST)	State	30	03-31-20
Kentucky (UST)	State Program	30	03-31-20
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-05-20
Maine	State Program	NY00044	12-04-20
Maryland	State	294	03-31-20
Massachusetts	State	M-NY044	06-30-20
Massachusetts	State Program	M-NY044	06-30-20
Michigan	State	9937	03-31-20
Minnesota	NELAP	1524384	12-31-19
New Hampshire	NELAP	2337	11-17-19 *
New Hampshire	NELAP	2337	11-17-19
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-01-20
North Dakota	State	R-176	03-31-20
Oklahoma	State	9421	09-01-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Rhode Island	State	LAO00328	12-30-20
Tennessee	State	02970	03-31-20
Texas	NELAP	T104704412-18-10	08-01-20
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Virginia	NELAP	460185	09-14-20
Washington	State	C784	02-10-20
Wisconsin	State	998310390	08-31-20

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

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-20
Connecticut	State	PH-0751	09-30-19 *
Connecticut	State Program	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-19
New Hampshire	NELAP	2006	12-18-19
New Hampshire	NELAP	2006	10-18-19
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	03-31-20
Pennsylvania	NELAP	68-00489	04-30-20
Rhode Island	State	LAO00298	12-30-19
Rhode Island	State Program	LAO00298	12-30-19
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-19
Virginia	NELAP	460209	12-14-19

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

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-96046-1	4D-GS	Water	09/20/19 08:55	09/21/19 09:30	
180-96046-2	4A-GS	Water	09/20/19 11:05	09/21/19 09:30	
180-96046-3	3S-GS	Water	09/20/19 14:20	09/21/19 09:30	
180-96046-4	4B-GS	Water	09/20/19 10:19	09/21/19 09:30	
180-96046-5	6D-GS	Water	09/20/19 14:25	09/21/19 09:30	
180-96046-6	EB-01	Water	09/20/19 07:58	09/21/19 09:30	
180-96046-7	FB-01	Water	09/20/19 08:35	09/21/19 09:30	
180-96046-8	DUP-02	Water	09/20/19 12:00	09/21/19 09:30	



Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL BUR
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL PIT
1664B	HEM and SGT-HEM	1664B	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PIT
SM 4500 CO2 B	Free Carbon Dioxide	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF
SM 5310C	Total Organic Carbon	SM	TAL PIT
1664B	HEM and SGT-HEM (Aqueous)	1664B	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
7470A	Preparation, Mercury	SW846	TAL PIT
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

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

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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 BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4D-GS

Lab Sample ID: 180-96046-1

Date Collected: 09/20/19 08:55

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 15:46	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		50			292188	09/21/19 15:00	JBF	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		500			292188	09/21/19 15:15	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			295148	10/16/19 20:42	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:04	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:07	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			985 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		5	5 mL	5 mL	494916	09/30/19 09:44	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		2			495223	10/01/19 13:03	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:29	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:08	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	494938	09/30/19 11:46	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	500 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:39	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 11:06	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4A-GS

Lab Sample ID: 180-96046-2

Date Collected: 09/20/19 11:05

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 15:55	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		10			292188	09/21/19 15:30	JBF	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		100			292188	09/21/19 15:45	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 20:45	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:09	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:08	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			966 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		2	5 mL	5 mL	494916	09/30/19 09:45	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 10:02	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:31	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:24	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	25 mL	100 mL	493984	09/25/19 09:57	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:45	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 11:21	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 3S-GS

Lab Sample ID: 180-96046-3

Date Collected: 09/20/19 14:20

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 16:04	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		10			292188	09/21/19 16:30	JBF	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		100			292188	09/21/19 16:44	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 20:48	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:13	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:09	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			961 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	494916	09/30/19 09:28	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 09:53	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:33	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:28	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	493984	09/25/19 09:57	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:48	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 11:36	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4B-GS

Lab Sample ID: 180-96046-4

Date Collected: 09/20/19 10:19

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 16:12	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		10			292188	09/21/19 16:59	JBF	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		100			292188	09/21/19 17:14	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 20:58	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:18	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:10	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			964 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	494916	09/30/19 09:29	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 09:53	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:34	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:33	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	25 mL	100 mL	493984	09/25/19 09:57	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	500 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:51	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 11:51	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 6D-GS

Lab Sample ID: 180-96046-5

Date Collected: 09/20/19 14:25

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 16:21	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292188	09/21/19 17:29	JBF	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292188	09/21/19 17:44	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:01	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:23	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:11	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			960 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	494916	09/30/19 09:30	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 09:53	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:36	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:39	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	494938	09/30/19 11:46	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:53	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 12:07	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: EB-01

Lab Sample ID: 180-96046-6

Date Collected: 09/20/19 07:58

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 16:30	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			292188	09/21/19 17:59	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:05	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:28	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:12	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			971 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	494916	09/30/19 09:31	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 09:53	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:39	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:51	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	50 mL	100 mL	493984	09/25/19 09:57	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:56	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genysis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 12:50	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: FB-01

Lab Sample ID: 180-96046-7

Date Collected: 09/20/19 08:35

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 16:38	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			292188	09/21/19 18:14	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:08	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:42	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:13	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			979 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	494916	09/30/19 09:33	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 10:11	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:41	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 21:55	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	100 mL	100 mL	494023	09/25/19 11:42	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 20:59	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genysis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 13:04	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: DUP-02

Lab Sample ID: 180-96046-8

Date Collected: 09/20/19 12:00

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147732	09/25/19 16:47	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		10			292188	09/21/19 18:29	JBF	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		100			292188	09/21/19 18:44	JBF	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			295148	10/16/19 21:11	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 00:47	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293943	10/07/19 07:17	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:14	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			292462	09/24/19 13:30	MM1	TAL PIT
Total/NA	Prep	1664B			965 mL	1000 mL	494305	09/26/19 13:06	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494325	09/26/19 14:23	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	494186	09/26/19 07:05	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	494916	09/30/19 09:34	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	494940	09/30/19 11:47	KEB	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495223	10/01/19 09:53	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494149	09/25/19 19:42	BEF	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 22:00	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	25 mL	100 mL	494023	09/25/19 11:42	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292457	09/24/19 13:18	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 21:02	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genesis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294515	10/10/19 13:20	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL BUF

Batch Type: Prep

CLT = Christine Thomas

CRK = Christian Kriner

KEB = Katherine Bauer

Batch Type: Analysis

AEF = Alex Fritz

BEF = Brianna Fallon

CLT = Christine Thomas

CRK = Christian Kriner

CSS = Chandler Stone

KEB = Katherine Bauer

MTM2 = Michael Mosscrop

RP = Rosemary Pietras

Lab: TAL BUR

Batch Type: Analysis

MLT = Melissa Tice

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

RJR = Ron Rosenbaum

Batch Type: Analysis

AGP = Angela Partridge

JBF = Joshua Fritsch

MM1 = Mary Beth Miller

RJR = Ron Rosenbaum

RSK = Robert Kurtz

TAM = Tessa Mastalski

WTR = Bill Reinheimer

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4D-GS

Lab Sample ID: 180-96046-1

Date Collected: 09/20/19 08:55

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	44000		5000	1800	ug/L			09/25/19 15:46	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<1.2		5.0	1.2	mg/L			09/21/19 15:00	50
Nitrite as N	5.1		2.5	1.4	mg/L			09/21/19 15:00	50
Fluoride	<1.3		5.0	1.3	mg/L			09/21/19 15:00	50
Chloride	10000		500	360	mg/L			09/21/19 15:15	500
Bromide	32		25	4.4	mg/L			09/21/19 15:00	50
Sulfate	1000		50	19	mg/L			09/21/19 15:00	50
Orthophosphate as P	<3.1		25	3.1	mg/L			09/21/19 15:00	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:04	1
Aluminum	0.11		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:04	1
Arsenic	0.11		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:04	1
Beryllium	0.00065	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:04	1
Boron	5.0		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:04	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:04	1
Barium	0.18		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:04	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:04	1
Calcium	310		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:04	1
Lead	0.00022	J	0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:04	1
Nickel	0.00039	J	0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:04	1
Cobalt	0.00019	J	0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:04	1
Selenium	0.0016	J	0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:04	1
Thallium	0.00075	J	0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:04	1
Zinc	0.0038	J	0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:04	1
Iron	8.5		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:04	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:04	1
Potassium	180		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:04	1
Magnesium	610		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:04	1
Manganese	0.76		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:04	1
Molybdenum	0.066		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:04	1
Sodium	5700	^	5.0	3.5	mg/L		09/27/19 10:01	10/16/19 20:42	10
Strontium	7.1		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:04	1
Titanium	0.0043	J	0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:04	1
Vanadium	0.0015		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:04	1
SiO2, Silica	21		11	2.8	mg/L		09/27/19 10:01	10/16/19 20:42	10
Lithium	0.13		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:04	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:07	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	3300		0.67	0.022	mg/L			09/24/19 13:30	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4D-GS

Lab Sample ID: 180-96046-1

Date Collected: 09/20/19 08:55

Matrix: Water

Date Received: 09/21/19 09:30

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	770		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	2500		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.5	J B	5.1	1.4	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	6.6	B	1.0	0.50	mg/L		09/26/19 07:05	09/30/19 09:44	5
Total Kjeldahl Nitrogen	7.6		0.40	0.30	mg/L		09/30/19 11:47	10/01/19 13:03	2
Nitrate Nitrite as N	0.035	J B	0.050	0.020	mg/L			09/25/19 19:29	1
Alkalinity, Total	420		5.0	0.79	mg/L			09/30/19 21:08	1
Alkalinity, Bicarbonate	420		5.0	0.79	mg/L			09/30/19 21:08	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:08	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 21:08	1
Total Dissolved Solids	9000	H	100	40	mg/L			09/30/19 11:46	1
Total Suspended Solids	32		1.0	1.0	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	30		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.4	HF	0.1	0.1	SU			09/30/19 20:39	1
Temperature	20.1	HF	0.001	0.001	Degrees C			09/30/19 20:39	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	3.7		1.0	0.51	mg/L			10/10/19 11:06	1

Client Sample ID: 4A-GS

Lab Sample ID: 180-96046-2

Date Collected: 09/20/19 11:05

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	80000		5000	1800	ug/L			09/25/19 15:55	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.23		1.0	0.23	mg/L			09/21/19 15:30	10
Nitrite as N	1.0		0.50	0.29	mg/L			09/21/19 15:30	10
Fluoride	0.45	J	1.0	0.26	mg/L			09/21/19 15:30	10
Chloride	1900		100	71	mg/L			09/21/19 15:45	100
Bromide	6.1		5.0	0.87	mg/L			09/21/19 15:30	10
Sulfate	370		10	3.8	mg/L			09/21/19 15:30	10
Orthophosphate as P	<0.62		5.0	0.62	mg/L			09/21/19 15:30	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:09	1
Aluminum	0.039		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:09	1
Arsenic	0.044		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:09	1
Beryllium	0.00060	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:09	1
Boron	5.2		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:09	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:09	1
Barium	0.29		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:09	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4A-GS

Lab Sample ID: 180-96046-2

Date Collected: 09/20/19 11:05

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.00070	J	0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:09	1
Calcium	270		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:09	1
Lead	0.00021	J	0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:09	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:09	1
Cobalt	0.0072		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:09	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:09	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:09	1
Zinc	0.0033	J	0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:09	1
Iron	9.9		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:09	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:09	1
Potassium	26		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:09	1
Magnesium	110		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:09	1
Manganese	4.6		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:09	1
Molybdenum	0.093		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:09	1
Sodium	880		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:09	1
Strontium	3.8		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:09	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:09	1
Vanadium	0.0012		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:09	1
SiO2, Silica	10		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 20:45	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:09	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:08	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1100		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	670		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	450		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.5	J B	5.2	1.4	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	2.4	B	0.40	0.20	mg/L		09/26/19 07:05	09/30/19 09:45	2
Total Kjeldahl Nitrogen	2.5		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 10:02	1
Nitrate Nitrite as N	<0.020	F1	0.050	0.020	mg/L			09/25/19 19:31	1
Alkalinity, Total	350		5.0	0.79	mg/L			09/30/19 21:24	1
Alkalinity, Bicarbonate	350		5.0	0.79	mg/L			09/30/19 21:24	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:24	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 21:24	1
Total Dissolved Solids	3400		40	16	mg/L			09/25/19 09:57	1
Total Suspended Solids	21		0.50	0.50	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	40		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.2	HF	0.1	0.1	SU			09/30/19 20:45	1
Temperature	19.8	HF	0.001	0.001	Degrees C			09/30/19 20:45	1
Phosphorus	0.081		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	2.9		1.0	0.51	mg/L			10/10/19 11:21	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 3S-GS

Lab Sample ID: 180-96046-3

Date Collected: 09/20/19 14:20

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 16:04	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.23		1.0	0.23	mg/L			09/21/19 16:30	10
Nitrite as N	1.2		0.50	0.29	mg/L			09/21/19 16:30	10
Fluoride	<0.26		1.0	0.26	mg/L			09/21/19 16:30	10
Chloride	2700		100	71	mg/L			09/21/19 16:44	100
Bromide	8.3		5.0	0.87	mg/L			09/21/19 16:30	10
Sulfate	650		100	38	mg/L			09/21/19 16:44	100
Orthophosphate as P	<0.62		5.0	0.62	mg/L			09/21/19 16:30	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0064		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:13	1
Aluminum	0.59		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:13	1
Arsenic	0.16		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:13	1
Beryllium	0.00070	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:13	1
Boron	19		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:13	1
Cadmium	0.00092	J	0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:13	1
Barium	0.090		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:13	1
Chromium	0.13		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:13	1
Copper	0.0036		0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:13	1
Calcium	460		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:13	1
Lead	0.00078	J	0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:13	1
Nickel	0.062		0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:13	1
Cobalt	0.0015		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:13	1
Selenium	0.0030	J	0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:13	1
Zinc	0.0040	J	0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:13	1
Iron	0.53		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:13	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:13	1
Potassium	54		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:13	1
Magnesium	2.5		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:13	1
Manganese	0.018		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:13	1
Molybdenum	2.5		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:13	1
Sodium	1200		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:13	1
Strontium	6.6		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:13	1
Titanium	0.0091		0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:13	1
Vanadium	0.040		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:13	1
SiO2, Silica	4.0		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 20:48	1
Lithium	0.10		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:13	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:09	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1200		0.67	0.022	mg/L			09/24/19 13:30	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 3S-GS

Lab Sample ID: 180-96046-3

Date Collected: 09/20/19 14:20

Matrix: Water

Date Received: 09/21/19 09:30

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	1100		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	10		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.2	J B	5.2	1.5	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	0.90	B	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:28	1
Total Kjeldahl Nitrogen	1.1		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 09:53	1
Nitrate Nitrite as N	0.028	J B	0.050	0.020	mg/L			09/25/19 19:33	1
Alkalinity, Total	94		5.0	0.79	mg/L			09/30/19 21:28	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:28	1
Alkalinity, Carbonate	93		5.0	0.79	mg/L			09/30/19 21:28	1
Hydroxide Alkalinity	1.6	J	5.0	0.79	mg/L			09/30/19 21:28	1
Total Dissolved Solids	2300		100	40	mg/L			09/25/19 09:57	1
Total Suspended Solids	4.2		0.50	0.50	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	<0.10		0.10	0.10	mg/L			10/21/19 13:52	1
pH	9.2	HF	0.1	0.1	SU			09/30/19 20:48	1
Temperature	19.6	HF	0.001	0.001	Degrees C			09/30/19 20:48	1
Phosphorus	0.014		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	1.1		1.0	0.51	mg/L			10/10/19 11:36	1

Client Sample ID: 4B-GS

Lab Sample ID: 180-96046-4

Date Collected: 09/20/19 10:19

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	160000		5000	1800	ug/L			09/25/19 16:12	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.23		1.0	0.23	mg/L			09/21/19 16:59	10
Nitrite as N	1.0		0.50	0.29	mg/L			09/21/19 16:59	10
Fluoride	<0.26		1.0	0.26	mg/L			09/21/19 16:59	10
Chloride	2000		100	71	mg/L			09/21/19 17:14	100
Bromide	5.9		5.0	0.87	mg/L			09/21/19 16:59	10
Sulfate	800		100	38	mg/L			09/21/19 17:14	100
Orthophosphate as P	<0.62		5.0	0.62	mg/L			09/21/19 16:59	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:18	1
Aluminum	<0.013		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:18	1
Arsenic	0.064		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:18	1
Beryllium	0.00042	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:18	1
Boron	3.2		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:18	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:18	1
Barium	0.11		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:18	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 4B-GS

Lab Sample ID: 180-96046-4

Date Collected: 09/20/19 10:19

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0037		0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:18	1
Calcium	340		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:18	1
Nickel	0.0020		0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:18	1
Cobalt	0.0063		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:18	1
Thallium	0.00020	J	0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:18	1
Zinc	0.0042	J	0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:18	1
Iron	4.2		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:18	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:18	1
Potassium	19		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:18	1
Magnesium	160		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:18	1
Manganese	6.7		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:18	1
Molybdenum	0.039		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:18	1
Sodium	1100		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:18	1
Strontium	3.0		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:18	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:18	1
Vanadium	0.0017		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:18	1
SiO2, Silica	12		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 20:58	1
Lithium	0.0034	J	0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:18	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:10	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1500		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	850		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	660		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.8	J B	5.2	1.5	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	1.2	B	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:29	1
Total Kjeldahl Nitrogen	1.4		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 09:53	1
Nitrate Nitrite as N	0.028	J B	0.050	0.020	mg/L			09/25/19 19:34	1
Alkalinity, Total	460		5.0	0.79	mg/L			09/30/19 21:33	1
Alkalinity, Bicarbonate	460		5.0	0.79	mg/L			09/30/19 21:33	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:33	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 21:33	1
Total Dissolved Solids	4300		40	16	mg/L			09/25/19 09:57	1
Total Suspended Solids	7.8		1.0	1.0	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	75		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.1	HF	0.1	0.1	SU			09/30/19 20:51	1
Temperature	19.5	HF	0.001	0.001	Degrees C			09/30/19 20:51	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	3.7		1.0	0.51	mg/L			10/10/19 11:51	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 6D-GS

Lab Sample ID: 180-96046-5

Date Collected: 09/20/19 14:25

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	390000		5000	1800	ug/L			09/25/19 16:21	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/21/19 17:29	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/21/19 17:29	25
Fluoride	<0.66		2.5	0.66	mg/L			09/21/19 17:29	25
Chloride	3100		250	180	mg/L			09/21/19 17:44	250
Bromide	13		13	2.2	mg/L			09/21/19 17:29	25
Sulfate	130		25	9.5	mg/L			09/21/19 17:29	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/21/19 17:29	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:23	1
Aluminum	0.21		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:23	1
Arsenic	0.0090		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:23	1
Beryllium	0.0048		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:23	1
Boron	8.2		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:23	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:23	1
Barium	1.5		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:23	1
Chromium	0.0023		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:23	1
Copper	0.0012	J	0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:23	1
Calcium	270		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:23	1
Nickel	0.0049		0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:23	1
Cobalt	0.0025		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:23	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:23	1
Zinc	0.0063		0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:23	1
Iron	110		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:23	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:23	1
Potassium	35		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:23	1
Magnesium	180		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:23	1
Manganese	1.2		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:23	1
Molybdenum	0.025		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:23	1
Sodium	980		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:23	1
Strontium	2.9		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:23	1
Titanium	0.0037	J	0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:23	1
Vanadium	0.0033		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:23	1
SiO2, Silica	22		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 21:01	1
Lithium	0.15		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:23	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:11	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1400		0.67	0.022	mg/L			09/24/19 13:30	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: 6D-GS

Lab Sample ID: 180-96046-5

Date Collected: 09/20/19 14:25

Matrix: Water

Date Received: 09/21/19 09:30

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	670		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	740		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.1	J B	5.2	1.5	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	1.0	B	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:30	1
Total Kjeldahl Nitrogen	0.95		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 09:53	1
Nitrate Nitrite as N	0.063	B	0.050	0.020	mg/L			09/25/19 19:36	1
Alkalinity, Total	220		5.0	0.79	mg/L			09/30/19 21:39	1
Alkalinity, Bicarbonate	220		5.0	0.79	mg/L			09/30/19 21:39	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:39	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 21:39	1
Total Dissolved Solids	5400	H	100	40	mg/L			09/30/19 11:46	1
Total Suspended Solids	4.1		0.50	0.50	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	210		0.10	0.10	mg/L			10/21/19 13:52	1
pH	6.3	HF	0.1	0.1	SU			09/30/19 20:53	1
Temperature	19.4	HF	0.001	0.001	Degrees C			09/30/19 20:53	1
Phosphorus	0.092		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	7.8		1.0	0.51	mg/L			10/10/19 12:07	1

Client Sample ID: EB-01

Lab Sample ID: 180-96046-6

Date Collected: 09/20/19 07:58

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 16:30	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/21/19 17:59	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/21/19 17:59	1
Fluoride	<0.026		0.10	0.026	mg/L			09/21/19 17:59	1
Chloride	<0.71		1.0	0.71	mg/L			09/21/19 17:59	1
Bromide	<0.087		0.50	0.087	mg/L			09/21/19 17:59	1
Sulfate	0.53	J	1.0	0.38	mg/L			09/21/19 17:59	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/21/19 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:28	1
Aluminum	<0.013		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:28	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:28	1
Beryllium	0.00018	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:28	1
Boron	0.045	J	0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:28	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:28	1
Barium	<0.0016		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:28	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: EB-01

Lab Sample ID: 180-96046-6

Date Collected: 09/20/19 07:58

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0016	J	0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:28	1
Calcium	<0.13		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:28	1
Nickel	0.00057	J	0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:28	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:28	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:28	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:28	1
Iron	<0.020		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:28	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:28	1
Potassium	<0.16		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:28	1
Magnesium	<0.083		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:28	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:28	1
Molybdenum	0.00067	J	0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:28	1
Sodium	<0.35		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:28	1
Strontium	<0.00076		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:28	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:28	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:28	1
SiO ₂ , Silica	<0.28		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 21:05	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:28	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:12	1

Method: SM 2340B - Total Hardness (as CaCO₃) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	<0.022		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	<0.0071		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	<0.0048		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	4.4	J B	5.1	1.4	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	0.17	J B	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:31	1
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 09:53	1
Nitrate Nitrite as N	<0.020		0.050	0.020	mg/L			09/25/19 19:39	1
Alkalinity, Total	<0.79		5.0	0.79	mg/L			09/30/19 21:51	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:51	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:51	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 21:51	1
Total Dissolved Solids	56		20	8.0	mg/L			09/25/19 09:57	1
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	2.0		0.10	0.10	mg/L			10/21/19 13:52	1
pH	5.7	HF	0.1	0.1	SU			09/30/19 20:56	1
Temperature	19.3	HF	0.001	0.001	Degrees C			09/30/19 20:56	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/10/19 12:50	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: FB-01

Lab Sample ID: 180-96046-7

Date Collected: 09/20/19 08:35

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 16:38	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/21/19 18:14	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/21/19 18:14	1
Fluoride	<0.026		0.10	0.026	mg/L			09/21/19 18:14	1
Chloride	<0.71		1.0	0.71	mg/L			09/21/19 18:14	1
Bromide	<0.087		0.50	0.087	mg/L			09/21/19 18:14	1
Sulfate	0.43	J	1.0	0.38	mg/L			09/21/19 18:14	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/21/19 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:42	1
Aluminum	<0.013		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:42	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:42	1
Beryllium	0.00022	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:42	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:42	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:42	1
Barium	<0.0016		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:42	1
Copper	0.00069	J	0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:42	1
Calcium	<0.13		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:42	1
Nickel	0.00079	J	0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:42	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:42	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:42	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:42	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:42	1
Iron	<0.020		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:42	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:42	1
Potassium	<0.16		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:42	1
Magnesium	<0.083		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:42	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:42	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:42	1
Sodium	<0.35		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:42	1
Strontium	<0.00076		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:42	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:42	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:42	1
SiO2, Silica	<0.28		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 21:08	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:42	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:13	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	<0.022		0.67	0.022	mg/L			09/24/19 13:30	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: FB-01

Lab Sample ID: 180-96046-7

Date Collected: 09/20/19 08:35

Matrix: Water

Date Received: 09/21/19 09:30

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	<0.0071		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	<0.0048		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.7	J B	5.1	1.4	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	0.24	B	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:33	1
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 10:11	1
Nitrate Nitrite as N	<0.020		0.050	0.020	mg/L			09/25/19 19:41	1
Alkalinity, Total	<0.79		5.0	0.79	mg/L			09/30/19 21:55	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:55	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 21:55	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 21:55	1
Total Dissolved Solids	23		10	4.0	mg/L			09/25/19 11:42	1
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	2.2		0.10	0.10	mg/L			10/21/19 13:52	1
pH	5.6	HF	0.1	0.1	SU			09/30/19 20:59	1
Temperature	19.4	HF	0.001	0.001	Degrees C			09/30/19 20:59	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/10/19 13:04	1

Client Sample ID: DUP-02

Lab Sample ID: 180-96046-8

Date Collected: 09/20/19 12:00

Matrix: Water

Date Received: 09/21/19 09:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	160000		5000	1800	ug/L			09/25/19 16:47	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.23		1.0	0.23	mg/L			09/21/19 18:29	10
Nitrite as N	0.93		0.50	0.29	mg/L			09/21/19 18:29	10
Fluoride	<0.26		1.0	0.26	mg/L			09/21/19 18:29	10
Chloride	2000		100	71	mg/L			09/21/19 18:44	100
Bromide	5.9		5.0	0.87	mg/L			09/21/19 18:29	10
Sulfate	790		100	38	mg/L			09/21/19 18:44	100
Orthophosphate as P	<0.62		5.0	0.62	mg/L			09/21/19 18:29	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/16/19 00:47	1
Aluminum	<0.013		0.030	0.013	mg/L		09/27/19 10:01	10/16/19 00:47	1
Arsenic	0.066		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:47	1
Beryllium	0.00022	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:47	1
Boron	3.1		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:47	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:47	1
Barium	0.11		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:47	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Client Sample ID: DUP-02

Lab Sample ID: 180-96046-8

Date Collected: 09/20/19 12:00

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.00071	J	0.0020	0.00063	mg/L		09/27/19 10:01	10/16/19 00:47	1
Calcium	350		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:47	1
Nickel	0.0019		0.0010	0.00034	mg/L		09/27/19 10:01	10/16/19 00:47	1
Cobalt	0.0064		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:47	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:47	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:47	1
Zinc	0.0037	J	0.0050	0.0032	mg/L		09/27/19 10:01	10/16/19 00:47	1
Iron	4.1		0.050	0.020	mg/L		09/27/19 10:01	10/16/19 00:47	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:47	1
Potassium	19		0.50	0.16	mg/L		09/27/19 10:01	10/16/19 00:47	1
Magnesium	160		0.50	0.083	mg/L		09/27/19 10:01	10/16/19 00:47	1
Manganese	6.8		0.0050	0.0014	mg/L		09/27/19 10:01	10/16/19 00:47	1
Molybdenum	0.035		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:47	1
Sodium	1100		0.50	0.35	mg/L		09/27/19 10:01	10/16/19 00:47	1
Strontium	3.1		0.0050	0.00076	mg/L		09/27/19 10:01	10/16/19 00:47	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/27/19 10:01	10/16/19 00:47	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/27/19 10:01	10/16/19 00:47	1
SiO2, Silica	13		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 21:11	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:47	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 12:14	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1500		0.67	0.022	mg/L			09/24/19 13:30	1
Calcium hardness as calcium carbonate	870		0.25	0.0071	mg/L			09/24/19 13:30	1
Magnesium hardness as calcium carbonate	660		0.41	0.0048	mg/L			09/24/19 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.0	J B	5.2	1.5	mg/L		09/26/19 13:06	09/26/19 14:23	1
Ammonia	1.4	B	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:34	1
Total Kjeldahl Nitrogen	1.3		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 09:53	1
Nitrate Nitrite as N	0.021	J B	0.050	0.020	mg/L			09/25/19 19:42	1
Alkalinity, Total	450		5.0	0.79	mg/L			09/30/19 22:00	1
Alkalinity, Bicarbonate	450		5.0	0.79	mg/L			09/30/19 22:00	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 22:00	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 22:00	1
Total Dissolved Solids	4000		40	16	mg/L			09/25/19 11:42	1
Total Suspended Solids	7.5		0.50	0.50	mg/L			09/24/19 13:18	1
Carbon Dioxide, Free	65		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.1	HF	0.1	0.1	SU			09/30/19 21:02	1
Temperature	19.6	HF	0.001	0.001	Degrees C			09/30/19 21:02	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	3.7		1.0	0.51	mg/L			10/10/19 13:20	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-147732/24
Matrix: Water
Analysis Batch: 147732

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 15:37	1

Lab Sample ID: MB 200-147732/4
Matrix: Water
Analysis Batch: 147732

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 12:43	1

Lab Sample ID: LCS 200-147732/22
Matrix: Water
Analysis Batch: 147732

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	40000	46400		ug/L		116	70 - 130

Lab Sample ID: LCSD 200-147732/23
Matrix: Water
Analysis Batch: 147732

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
Carbon dioxide	40000	46400		ug/L		116	70 - 130	0	30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-292188/6
Matrix: Water
Analysis Batch: 292188

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/21/19 13:45	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/21/19 13:45	1
Fluoride	<0.026		0.10	0.026	mg/L			09/21/19 13:45	1
Chloride	<0.71		1.0	0.71	mg/L			09/21/19 13:45	1
Bromide	<0.087		0.50	0.087	mg/L			09/21/19 13:45	1
Sulfate	<0.38		1.0	0.38	mg/L			09/21/19 13:45	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/21/19 13:45	1

Lab Sample ID: LCS 180-292188/5
Matrix: Water
Analysis Batch: 292188

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.25	1.18		mg/L		94	90 - 110
Nitrite as N	1.25	1.22		mg/L		97	90 - 110
Fluoride	1.25	1.18		mg/L		95	90 - 110
Chloride	25.0	25.8		mg/L		103	90 - 110
Bromide	5.00	4.77		mg/L		95	90 - 110
Sulfate	25.0	24.3		mg/L		97	90 - 110
Orthophosphate as P	1.25	1.14		mg/L		91	90 - 110

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-292939/1-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00038		0.0020	0.00038	mg/L		09/27/19 10:01	10/15/19 23:54	1
Aluminum	<0.013		0.030	0.013	mg/L		09/27/19 10:01	10/15/19 23:54	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/15/19 23:54	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/15/19 23:54	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/15/19 23:54	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/15/19 23:54	1
Barium	<0.0016		0.010	0.0016	mg/L		09/27/19 10:01	10/15/19 23:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/15/19 23:54	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/27/19 10:01	10/15/19 23:54	1
Calcium	<0.13		0.50	0.13	mg/L		09/27/19 10:01	10/15/19 23:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/15/19 23:54	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/27/19 10:01	10/15/19 23:54	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:01	10/15/19 23:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/15/19 23:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/15/19 23:54	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/27/19 10:01	10/15/19 23:54	1
Iron	<0.020		0.050	0.020	mg/L		09/27/19 10:01	10/15/19 23:54	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/15/19 23:54	1
Potassium	<0.16		0.50	0.16	mg/L		09/27/19 10:01	10/15/19 23:54	1
Magnesium	<0.083		0.50	0.083	mg/L		09/27/19 10:01	10/15/19 23:54	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/27/19 10:01	10/15/19 23:54	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:01	10/15/19 23:54	1
Sodium	<0.35		0.50	0.35	mg/L		09/27/19 10:01	10/15/19 23:54	1
Strontium	<0.00076		0.0050	0.00076	mg/L		09/27/19 10:01	10/15/19 23:54	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/27/19 10:01	10/15/19 23:54	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/27/19 10:01	10/15/19 23:54	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/15/19 23:54	1

Lab Sample ID: MB 180-292939/1-A
Matrix: Water
Analysis Batch: 295148

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
SiO2, Silica	<0.28		1.1	0.28	mg/L		09/27/19 10:01	10/16/19 20:35	1

Lab Sample ID: LCS 180-292939/2-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.261		mg/L		104	80 - 120
Aluminum	5.00	4.74		mg/L		95	80 - 120
Arsenic	1.00	0.866		mg/L		87	80 - 120
Beryllium	0.500	0.482		mg/L		96	80 - 120
Boron	1.25	1.28		mg/L		102	80 - 120
Cadmium	0.500	0.437		mg/L		87	80 - 120
Barium	1.00	0.816		mg/L		82	80 - 120
Chromium	0.500	0.453		mg/L		91	80 - 120
Copper	0.500	0.448		mg/L		90	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

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

Lab Sample ID: LCS 180-292939/2-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25.0	25.5		mg/L		102	80 - 120
Lead	0.500	0.427		mg/L		85	80 - 120
Nickel	0.500	0.452		mg/L		90	80 - 120
Cobalt	0.500	0.443		mg/L		89	80 - 120
Selenium	1.00	0.842		mg/L		84	80 - 120
Thallium	1.00	0.849		mg/L		85	80 - 120
Zinc	0.250	0.245		mg/L		98	80 - 120
Iron	5.00	4.57		mg/L		91	80 - 120
Silver	0.250	0.243		mg/L		97	80 - 120
Potassium	25.0	24.8		mg/L		99	80 - 120
Magnesium	25.0	24.1		mg/L		96	80 - 120
Manganese	0.500	0.426		mg/L		85	80 - 120
Molybdenum	0.500	0.436		mg/L		87	80 - 120
Sodium	25.0	25.9		mg/L		103	80 - 120
Strontium	0.500	0.409		mg/L		82	80 - 120
Titanium	0.500	0.432		mg/L		86	80 - 120
Vanadium	0.500	0.448		mg/L		90	80 - 120
Lithium	0.500	0.442		mg/L		88	80 - 120

Lab Sample ID: LCS 180-292939/2-A
Matrix: Water
Analysis Batch: 295315

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
SiO ₂ , Silica	2.14	1.96		mg/L		92	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-293943/1-A
Matrix: Water
Analysis Batch: 294165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:17	10/08/19 11:47	1

Lab Sample ID: LCS 180-293943/2-A
Matrix: Water
Analysis Batch: 294165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00252		mg/L		101	80 - 120

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-494305/1-A
Matrix: Water
Analysis Batch: 494325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.25	J	5.1	1.4	mg/L		09/26/19 13:06	09/26/19 14:23	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: 1664B - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 480-494305/2-A
Matrix: Water
Analysis Batch: 494325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494305
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Oil & Grease	40.0	38.84		mg/L		97	78 - 114

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-494186/1-A
Matrix: Water
Analysis Batch: 494916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.102	J	0.20	0.10	mg/L		09/26/19 07:05	09/30/19 09:23	1

Lab Sample ID: LCS 480-494186/2-A
Matrix: Water
Analysis Batch: 494916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494186
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	1.00	0.980		mg/L		98	90 - 110

Lab Sample ID: 180-96046-2 MS
Matrix: Water
Analysis Batch: 494916

Client Sample ID: 4A-GS
Prep Type: Total/NA
Prep Batch: 494186
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Ammonia	2.4	B	0.500	2.60	4	mg/L		48	90 - 110

Lab Sample ID: 180-96046-1 DU
Matrix: Water
Analysis Batch: 494916

Client Sample ID: 4D-GS
Prep Type: Total/NA
Prep Batch: 494186

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ammonia	6.6	B	6.15		mg/L		6	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-494940/1-A
Matrix: Water
Analysis Batch: 495223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		09/30/19 11:47	10/01/19 09:41	1

Lab Sample ID: LCS 480-494940/2-A
Matrix: Water
Analysis Batch: 495223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494940
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.55		mg/L		102	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 180-96046-1 MS
Matrix: Water
Analysis Batch: 495223

Client Sample ID: 4D-GS
Prep Type: Total/NA
Prep Batch: 494940
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	7.6		1.00	7.82	4	mg/L		20	90 - 110

Lab Sample ID: 180-96046-8 MS
Matrix: Water
Analysis Batch: 495223

Client Sample ID: DUP-02
Prep Type: Total/NA
Prep Batch: 494940
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	1.3		1.00	2.28		mg/L		98	90 - 110

Lab Sample ID: 180-96046-7 DU
Matrix: Water
Analysis Batch: 495223

Client Sample ID: FB-01
Prep Type: Total/NA
Prep Batch: 494940

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Kjeldahl Nitrogen	<0.15		<0.15		mg/L		NC	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-494149/4
Matrix: Water
Analysis Batch: 494149

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0211	J	0.050	0.020	mg/L			09/25/19 19:25	1

Lab Sample ID: LCS 480-494149/5
Matrix: Water
Analysis Batch: 494149

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N	1.50	1.48		mg/L		99	90 - 110

Lab Sample ID: 180-96046-2 MS
Matrix: Water
Analysis Batch: 494149

Client Sample ID: 4A-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N	<0.020	F1	1.00	0.887	F1	mg/L		89	90 - 110

Lab Sample ID: 180-96046-6 MS
Matrix: Water
Analysis Batch: 494149

Client Sample ID: EB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N	<0.020		1.00	0.925		mg/L		93	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 180-96046-1 DU
Matrix: Water
Analysis Batch: 494149

Client Sample ID: 4D-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.035	J B	<0.020		mg/L		NC	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-495181/7
Matrix: Water
Analysis Batch: 495181

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1

Lab Sample ID: LCS 480-495181/8
Matrix: Water
Analysis Batch: 495181

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	92.0		mg/L		92	90 - 110

Lab Sample ID: 180-96046-1 MS
Matrix: Water
Analysis Batch: 495181

Client Sample ID: 4D-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	420		100	454	4	mg/L		34	60 - 140

Lab Sample ID: 180-96046-1 DU
Matrix: Water
Analysis Batch: 495181

Client Sample ID: 4D-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	420		380		mg/L		10	20
Alkalinity, Bicarbonate	420		380		mg/L		10	20
Alkalinity, Carbonate	<0.79		<0.79		mg/L		NC	20
Hydroxide Alkalinity	<0.79		<0.79		mg/L		NC	20

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

Lab Sample ID: MB 480-493984/1
Matrix: Water
Analysis Batch: 493984

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	<4.0		10	4.0	mg/L			09/25/19 09:57	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

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

Lab Sample ID: LCS 480-493984/2
Matrix: Water
Analysis Batch: 493984

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	500	469		mg/L		94	85 - 115

Lab Sample ID: 180-96046-3 DU
Matrix: Water
Analysis Batch: 493984

Client Sample ID: 3S-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2300		2560		mg/L		10	10

Lab Sample ID: MB 480-494023/1
Matrix: Water
Analysis Batch: 494023

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	<4.0		10	4.0	mg/L			09/25/19 11:42	1

Lab Sample ID: LCS 480-494023/2
Matrix: Water
Analysis Batch: 494023

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	500	527		mg/L		105	85 - 115

Lab Sample ID: 180-96046-7 DU
Matrix: Water
Analysis Batch: 494023

Client Sample ID: FB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	23		24.0		mg/L		4	10

Lab Sample ID: MB 480-494938/1
Matrix: Water
Analysis Batch: 494938

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	<4.0		10	4.0	mg/L			09/30/19 11:46	1

Lab Sample ID: LCS 480-494938/2
Matrix: Water
Analysis Batch: 494938

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	500	462		mg/L		92	85 - 115

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 180-292457/2
Matrix: Water
Analysis Batch: 292457

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/24/19 13:18	1

Lab Sample ID: LCS 180-292457/1
Matrix: Water
Analysis Batch: 292457

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	82.3	90.0		mg/L		109	80 - 120

Lab Sample ID: 180-96046-1 DU
Matrix: Water
Analysis Batch: 292457

Client Sample ID: 4D-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	32		31.8		mg/L		1	10

Lab Sample ID: 180-96046-4 DU
Matrix: Water
Analysis Batch: 292457

Client Sample ID: 4B-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	7.8		7.80		mg/L		0	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-495182/1
Matrix: Water
Analysis Batch: 495182

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: 180-96046-1 DU
Matrix: Water
Analysis Batch: 495182

Client Sample ID: 4D-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.4	HF	7.4		SU		0	5
Temperature	20.1	HF	20.1		Degrees C		0.1	10

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-495438/27
Matrix: Water
Analysis Batch: 495438

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: SM 4500 P E - Phosphorus (Continued)

Lab Sample ID: MB 480-495438/51
Matrix: Water
Analysis Batch: 495438

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1

Lab Sample ID: LCS 480-495438/28
Matrix: Water
Analysis Batch: 495438

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.200	0.185		mg/L		92	90 - 110

Lab Sample ID: LCS 480-495438/52
Matrix: Water
Analysis Batch: 495438

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.200	0.183		mg/L		91	90 - 110

Lab Sample ID: 180-96046-4 MS
Matrix: Water
Analysis Batch: 495438

Client Sample ID: 4B-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	<0.0050		0.500	0.492		mg/L		98	52 - 148

Lab Sample ID: 180-96046-4 MSD
Matrix: Water
Analysis Batch: 495438

Client Sample ID: 4B-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	<0.0050		0.500	0.492		mg/L		98	52 - 148	0	20

Method: SM 5310C - Total Organic Carbon

Lab Sample ID: MB 180-294515/6
Matrix: Water
Analysis Batch: 294515

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/10/19 10:51	1

Lab Sample ID: LCS 180-294515/4
Matrix: Water
Analysis Batch: 294515

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	20.0	18.8		mg/L		94	85 - 115

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Method: SM 5310C - Total Organic Carbon (Continued)

Lab Sample ID: LCSD 180-294515/5
Matrix: Water
Analysis Batch: 294515

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
Total Organic Carbon - Duplicates	20.0	18.8		mg/L		94	85 - 115	0	20

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

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

GC VOA

Analysis Batch: 147732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	RSK-175	
180-96046-2	4A-GS	Total/NA	Water	RSK-175	
180-96046-3	3S-GS	Total/NA	Water	RSK-175	
180-96046-4	4B-GS	Total/NA	Water	RSK-175	
180-96046-5	6D-GS	Total/NA	Water	RSK-175	
180-96046-6	EB-01	Total/NA	Water	RSK-175	
180-96046-7	FB-01	Total/NA	Water	RSK-175	
180-96046-8	DUP-02	Total/NA	Water	RSK-175	
MB 200-147732/24	Method Blank	Total/NA	Water	RSK-175	
MB 200-147732/4	Method Blank	Total/NA	Water	RSK-175	
LCS 200-147732/22	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-147732/23	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 292188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-1	4D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-2	4A-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-2	4A-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-3	3S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-3	3S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-4	4B-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-4	4B-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-5	6D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-5	6D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96046-6	EB-01	Total/NA	Water	EPA 300.0 R2.1	
180-96046-7	FB-01	Total/NA	Water	EPA 300.0 R2.1	
180-96046-8	DUP-02	Total/NA	Water	EPA 300.0 R2.1	
180-96046-8	DUP-02	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292188/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292188/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Analysis Batch: 292462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total Recoverable	Water	SM 2340B	
180-96046-2	4A-GS	Total Recoverable	Water	SM 2340B	
180-96046-3	3S-GS	Total Recoverable	Water	SM 2340B	
180-96046-4	4B-GS	Total Recoverable	Water	SM 2340B	
180-96046-5	6D-GS	Total Recoverable	Water	SM 2340B	
180-96046-6	EB-01	Total Recoverable	Water	SM 2340B	
180-96046-7	FB-01	Total Recoverable	Water	SM 2340B	
180-96046-8	DUP-02	Total Recoverable	Water	SM 2340B	

Prep Batch: 292939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total Recoverable	Water	3005A	
180-96046-2	4A-GS	Total Recoverable	Water	3005A	
180-96046-3	3S-GS	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Metals (Continued)

Prep Batch: 292939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-4	4B-GS	Total Recoverable	Water	3005A	
180-96046-5	6D-GS	Total Recoverable	Water	3005A	
180-96046-6	EB-01	Total Recoverable	Water	3005A	
180-96046-7	FB-01	Total Recoverable	Water	3005A	
180-96046-8	DUP-02	Total Recoverable	Water	3005A	
MB 180-292939/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292939/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 293943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	7470A	
180-96046-2	4A-GS	Total/NA	Water	7470A	
180-96046-3	3S-GS	Total/NA	Water	7470A	
180-96046-4	4B-GS	Total/NA	Water	7470A	
180-96046-5	6D-GS	Total/NA	Water	7470A	
180-96046-6	EB-01	Total/NA	Water	7470A	
180-96046-7	FB-01	Total/NA	Water	7470A	
180-96046-8	DUP-02	Total/NA	Water	7470A	
MB 180-293943/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293943/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 294165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	EPA 7470A	293943
180-96046-2	4A-GS	Total/NA	Water	EPA 7470A	293943
180-96046-3	3S-GS	Total/NA	Water	EPA 7470A	293943
180-96046-4	4B-GS	Total/NA	Water	EPA 7470A	293943
180-96046-5	6D-GS	Total/NA	Water	EPA 7470A	293943
180-96046-6	EB-01	Total/NA	Water	EPA 7470A	293943
180-96046-7	FB-01	Total/NA	Water	EPA 7470A	293943
180-96046-8	DUP-02	Total/NA	Water	EPA 7470A	293943
MB 180-293943/1-A	Method Blank	Total/NA	Water	EPA 7470A	293943
LCS 180-293943/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293943

Analysis Batch: 295123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-2	4A-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-3	3S-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-4	4B-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-5	6D-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-6	EB-01	Total Recoverable	Water	EPA 6020	292939
180-96046-7	FB-01	Total Recoverable	Water	EPA 6020	292939
180-96046-8	DUP-02	Total Recoverable	Water	EPA 6020	292939
MB 180-292939/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292939
LCS 180-292939/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292939

Analysis Batch: 295148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-2	4A-GS	Total Recoverable	Water	EPA 6020	292939

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

Metals (Continued)

Analysis Batch: 295148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-3	3S-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-4	4B-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-5	6D-GS	Total Recoverable	Water	EPA 6020	292939
180-96046-6	EB-01	Total Recoverable	Water	EPA 6020	292939
180-96046-7	FB-01	Total Recoverable	Water	EPA 6020	292939
180-96046-8	DUP-02	Total Recoverable	Water	EPA 6020	292939
MB 180-292939/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292939

Analysis Batch: 295315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-292939/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292939

General Chemistry

Analysis Batch: 292457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 2540D	
180-96046-2	4A-GS	Total/NA	Water	SM 2540D	
180-96046-3	3S-GS	Total/NA	Water	SM 2540D	
180-96046-4	4B-GS	Total/NA	Water	SM 2540D	
180-96046-5	6D-GS	Total/NA	Water	SM 2540D	
180-96046-6	EB-01	Total/NA	Water	SM 2540D	
180-96046-7	FB-01	Total/NA	Water	SM 2540D	
180-96046-8	DUP-02	Total/NA	Water	SM 2540D	
MB 180-292457/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 180-292457/1	Lab Control Sample	Total/NA	Water	SM 2540D	
180-96046-1 DU	4D-GS	Total/NA	Water	SM 2540D	
180-96046-4 DU	4B-GS	Total/NA	Water	SM 2540D	

Analysis Batch: 294515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 5310C	
180-96046-2	4A-GS	Total/NA	Water	SM 5310C	
180-96046-3	3S-GS	Total/NA	Water	SM 5310C	
180-96046-4	4B-GS	Total/NA	Water	SM 5310C	
180-96046-5	6D-GS	Total/NA	Water	SM 5310C	
180-96046-6	EB-01	Total/NA	Water	SM 5310C	
180-96046-7	FB-01	Total/NA	Water	SM 5310C	
180-96046-8	DUP-02	Total/NA	Water	SM 5310C	
MB 180-294515/6	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-294515/4	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-294515/5	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 493984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-2	4A-GS	Total/NA	Water	SM 2540C	
180-96046-3	3S-GS	Total/NA	Water	SM 2540C	
180-96046-4	4B-GS	Total/NA	Water	SM 2540C	
180-96046-6	EB-01	Total/NA	Water	SM 2540C	
MB 480-493984/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-493984/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

General Chemistry (Continued)

Analysis Batch: 493984 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-3 DU	3S-GS	Total/NA	Water	SM 2540C	

Analysis Batch: 494023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-7	FB-01	Total/NA	Water	SM 2540C	
180-96046-8	DUP-02	Total/NA	Water	SM 2540C	
MB 480-494023/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-494023/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-96046-7 DU	FB-01	Total/NA	Water	SM 2540C	

Analysis Batch: 494149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	353.2	
180-96046-2	4A-GS	Total/NA	Water	353.2	
180-96046-3	3S-GS	Total/NA	Water	353.2	
180-96046-4	4B-GS	Total/NA	Water	353.2	
180-96046-5	6D-GS	Total/NA	Water	353.2	
180-96046-6	EB-01	Total/NA	Water	353.2	
180-96046-7	FB-01	Total/NA	Water	353.2	
180-96046-8	DUP-02	Total/NA	Water	353.2	
MB 480-494149/4	Method Blank	Total/NA	Water	353.2	
LCS 480-494149/5	Lab Control Sample	Total/NA	Water	353.2	
180-96046-2 MS	4A-GS	Total/NA	Water	353.2	
180-96046-6 MS	EB-01	Total/NA	Water	353.2	
180-96046-1 DU	4D-GS	Total/NA	Water	353.2	

Prep Batch: 494186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	Distill/Ammonia	
180-96046-2	4A-GS	Total/NA	Water	Distill/Ammonia	
180-96046-3	3S-GS	Total/NA	Water	Distill/Ammonia	
180-96046-4	4B-GS	Total/NA	Water	Distill/Ammonia	
180-96046-5	6D-GS	Total/NA	Water	Distill/Ammonia	
180-96046-6	EB-01	Total/NA	Water	Distill/Ammonia	
180-96046-7	FB-01	Total/NA	Water	Distill/Ammonia	
180-96046-8	DUP-02	Total/NA	Water	Distill/Ammonia	
MB 480-494186/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-494186/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
180-96046-2 MS	4A-GS	Total/NA	Water	Distill/Ammonia	
180-96046-1 DU	4D-GS	Total/NA	Water	Distill/Ammonia	

Prep Batch: 494305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	1664B	
180-96046-2	4A-GS	Total/NA	Water	1664B	
180-96046-3	3S-GS	Total/NA	Water	1664B	
180-96046-4	4B-GS	Total/NA	Water	1664B	
180-96046-5	6D-GS	Total/NA	Water	1664B	
180-96046-6	EB-01	Total/NA	Water	1664B	
180-96046-7	FB-01	Total/NA	Water	1664B	
180-96046-8	DUP-02	Total/NA	Water	1664B	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

General Chemistry (Continued)

Prep Batch: 494305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-494305/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-494305/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 494325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	1664B	494305
180-96046-2	4A-GS	Total/NA	Water	1664B	494305
180-96046-3	3S-GS	Total/NA	Water	1664B	494305
180-96046-4	4B-GS	Total/NA	Water	1664B	494305
180-96046-5	6D-GS	Total/NA	Water	1664B	494305
180-96046-6	EB-01	Total/NA	Water	1664B	494305
180-96046-7	FB-01	Total/NA	Water	1664B	494305
180-96046-8	DUP-02	Total/NA	Water	1664B	494305
MB 480-494305/1-A	Method Blank	Total/NA	Water	1664B	494305
LCS 480-494305/2-A	Lab Control Sample	Total/NA	Water	1664B	494305

Analysis Batch: 494916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	350.1	494186
180-96046-2	4A-GS	Total/NA	Water	350.1	494186
180-96046-3	3S-GS	Total/NA	Water	350.1	494186
180-96046-4	4B-GS	Total/NA	Water	350.1	494186
180-96046-5	6D-GS	Total/NA	Water	350.1	494186
180-96046-6	EB-01	Total/NA	Water	350.1	494186
180-96046-7	FB-01	Total/NA	Water	350.1	494186
180-96046-8	DUP-02	Total/NA	Water	350.1	494186
MB 480-494186/1-A	Method Blank	Total/NA	Water	350.1	494186
LCS 480-494186/2-A	Lab Control Sample	Total/NA	Water	350.1	494186
180-96046-2 MS	4A-GS	Total/NA	Water	350.1	494186
180-96046-1 DU	4D-GS	Total/NA	Water	350.1	494186

Analysis Batch: 494938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 2540C	
180-96046-5	6D-GS	Total/NA	Water	SM 2540C	
MB 480-494938/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-494938/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Prep Batch: 494940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	351.2	
180-96046-2	4A-GS	Total/NA	Water	351.2	
180-96046-3	3S-GS	Total/NA	Water	351.2	
180-96046-4	4B-GS	Total/NA	Water	351.2	
180-96046-5	6D-GS	Total/NA	Water	351.2	
180-96046-6	EB-01	Total/NA	Water	351.2	
180-96046-7	FB-01	Total/NA	Water	351.2	
180-96046-8	DUP-02	Total/NA	Water	351.2	
MB 480-494940/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-494940/2-A	Lab Control Sample	Total/NA	Water	351.2	
180-96046-1 MS	4D-GS	Total/NA	Water	351.2	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

General Chemistry (Continued)

Prep Batch: 494940 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-8 MS	DUP-02	Total/NA	Water	351.2	
180-96046-7 DU	FB-01	Total/NA	Water	351.2	

Analysis Batch: 495181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 2320B	
180-96046-2	4A-GS	Total/NA	Water	SM 2320B	
180-96046-3	3S-GS	Total/NA	Water	SM 2320B	
180-96046-4	4B-GS	Total/NA	Water	SM 2320B	
180-96046-5	6D-GS	Total/NA	Water	SM 2320B	
180-96046-6	EB-01	Total/NA	Water	SM 2320B	
180-96046-7	FB-01	Total/NA	Water	SM 2320B	
180-96046-8	DUP-02	Total/NA	Water	SM 2320B	
MB 480-495181/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-495181/8	Lab Control Sample	Total/NA	Water	SM 2320B	
180-96046-1 MS	4D-GS	Total/NA	Water	SM 2320B	
180-96046-1 DU	4D-GS	Total/NA	Water	SM 2320B	

Analysis Batch: 495182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 4500 H+ B	
180-96046-2	4A-GS	Total/NA	Water	SM 4500 H+ B	
180-96046-3	3S-GS	Total/NA	Water	SM 4500 H+ B	
180-96046-4	4B-GS	Total/NA	Water	SM 4500 H+ B	
180-96046-5	6D-GS	Total/NA	Water	SM 4500 H+ B	
180-96046-6	EB-01	Total/NA	Water	SM 4500 H+ B	
180-96046-7	FB-01	Total/NA	Water	SM 4500 H+ B	
180-96046-8	DUP-02	Total/NA	Water	SM 4500 H+ B	
LCS 480-495182/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
180-96046-1 DU	4D-GS	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 495223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	351.2	494940
180-96046-2	4A-GS	Total/NA	Water	351.2	494940
180-96046-3	3S-GS	Total/NA	Water	351.2	494940
180-96046-4	4B-GS	Total/NA	Water	351.2	494940
180-96046-5	6D-GS	Total/NA	Water	351.2	494940
180-96046-6	EB-01	Total/NA	Water	351.2	494940
180-96046-7	FB-01	Total/NA	Water	351.2	494940
180-96046-8	DUP-02	Total/NA	Water	351.2	494940
MB 480-494940/1-A	Method Blank	Total/NA	Water	351.2	494940
LCS 480-494940/2-A	Lab Control Sample	Total/NA	Water	351.2	494940
180-96046-1 MS	4D-GS	Total/NA	Water	351.2	494940
180-96046-8 MS	DUP-02	Total/NA	Water	351.2	494940
180-96046-7 DU	FB-01	Total/NA	Water	351.2	494940

Analysis Batch: 495438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 4500 P E	
180-96046-2	4A-GS	Total/NA	Water	SM 4500 P E	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-1

General Chemistry (Continued)

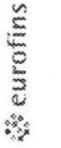
Analysis Batch: 495438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-3	3S-GS	Total/NA	Water	SM 4500 P E	
180-96046-4	4B-GS	Total/NA	Water	SM 4500 P E	
180-96046-5	6D-GS	Total/NA	Water	SM 4500 P E	
180-96046-6	EB-01	Total/NA	Water	SM 4500 P E	
180-96046-7	FB-01	Total/NA	Water	SM 4500 P E	
180-96046-8	DUP-02	Total/NA	Water	SM 4500 P E	
MB 480-495438/27	Method Blank	Total/NA	Water	SM 4500 P E	
MB 480-495438/51	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-495438/28	Lab Control Sample	Total/NA	Water	SM 4500 P E	
LCS 480-495438/52	Lab Control Sample	Total/NA	Water	SM 4500 P E	
180-96046-4 MS	4B-GS	Total/NA	Water	SM 4500 P E	
180-96046-4 MSD	4B-GS	Total/NA	Water	SM 4500 P E	

Analysis Batch: 499249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	SM 4500 CO2 B	
180-96046-2	4A-GS	Total/NA	Water	SM 4500 CO2 B	
180-96046-3	3S-GS	Total/NA	Water	SM 4500 CO2 B	
180-96046-4	4B-GS	Total/NA	Water	SM 4500 CO2 B	
180-96046-5	6D-GS	Total/NA	Water	SM 4500 CO2 B	
180-96046-6	EB-01	Total/NA	Water	SM 4500 CO2 B	
180-96046-7	FB-01	Total/NA	Water	SM 4500 CO2 B	
180-96046-8	DUP-02	Total/NA	Water	SM 4500 CO2 B	

Chain of Custody Record



Environmental Testing
TestAmerica

Client Information Client Contact: Ms. Lauren Petty Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-5417(Tel) Email: lpetty@southernco.com Project Name: CCR - Plant Watson Special AP Site:		Lab PM: Veronica Bortot E-Mail: veronica.bortot@testamericainc.com Sampler: Rick Alexander / Bridget Phone: 856-336-6012		Carrier Tracking No(s): COC No: 180-54585-11376.2 Page: Page 2 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 18020186 SOW#:		Analysis Requested 300 ORGFMS - ortho Phos Bromide, Cl, SO4, F 350.1, 351.2, 353.2, Pres, 4500_P_E 6020, 7470A 2320B, 2540C, Calcd, SM4500_H+ 9315_Ra226, 9320_Ra228 Perform MS/MSD (Yes or No)			
Sample Identification 4A-GS 4A-GS 3S-GS 4B-GS 6D-GS GB-01 FB-01 Dup-02		Sample Date 9-20-19 ↓ ↓ ↓ ↓ ↓ ↓ ↓		Sample Time 0855 1105 1420 1019 1425 0758 0835 1200	
Sample Type (C=Comp, G=grab) G ↓ ↓ ↓ ↓ ↓ ↓ ↓		Matrix (W=water, S=solid, O=soil, BT=Tissue, AA=)		Preservation Code: Water Water Water Water Water Water Water Water Water Water	
Field Filtered Sample (Yes or No)		Total Number of Containers		Special Instructions/Note: 180-96046 Chain of Custody	
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 X - EDTA Z - other (specify)					
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: Method of Shipment:					
Date/Time: 9-20-19 1659 Date/Time:		Date/Time: 9-21-19 0730 Date/Time:		Date/Time:	
Relinquished by: [Signature] Relinquished by:		Relinquished by: [Signature] Relinquished by:		Relinquished by:	
Company: Southern Company Date/Time:		Company: Southern Company Date/Time:		Company: Southern Company Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:			





151967 REV 7/08 RRD

ay Delivery

Uncorrected temp
Thermometer ID 2.4
10

CF 0 Initials B

PT-WI-SR-001 effective 11/8/18

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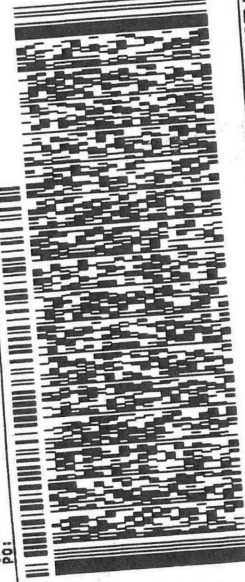
Part # 156207 2825 12/19

SHIP DATE: 20SEP19
ACTWT: 57.40 LB
CAD: 6993800/SSFE2021
DIMS: 24x13x14 IN
BILL THIRD PARTY

ORIGIN ID: BIXA (850) 336-0192
RICK HAGENDORFER
RDH ENVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

TO
SAMPLE CONTROL
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(565) 666-6666
REF: (565) 666-6666
DEPT: REF: (565) 666-6666



SATURDAY 12:00P
PRIORITY OVERNIGHT

2 of 5
MPS# 7899 5620 3440
0263
Mistr# 7899 5620 3430

0201

XO AGCA

15238
PA-US
PJ



Uncorrected temp
Thermometer ID

CF 0 Initials IS

PT-WI-SR-001 effective 11/8/18

RT 639
ST 6
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3440
09.21

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Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 398-0192
RICK HASENDORFER

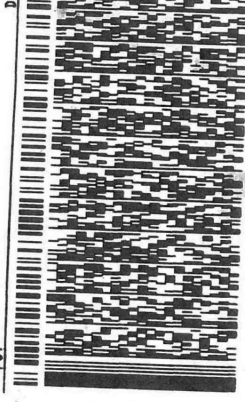
RDH ENVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

SHIP DATE: 20SEF19
ACT WT: 5.30 LB
CAD: 699300/3SFE2021
DIMS: 24x19x14 IN
BILL THIRD PARTY

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(556) 565-5566 REF:
INOT
P01

DEPT:



11292019062401 UP

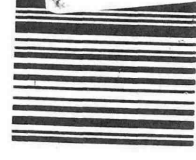
3 of 5
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# **7899 5620 3451**
0263
Met# **7899 5620 5430**
0201

XO AGCA

15238
PA-US
PIT

Uncorrected temp
Thermometer ID



CF 0 Initials B

2.4 °C
1.0

PT-WI-SR-001 effective 11/8/18

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- 13

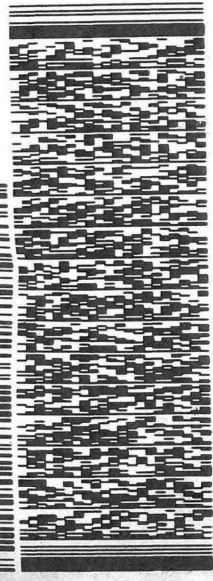
398-0192

ORIGIN: RICK HAGE RDH EVIRONMENTAL 5720 DOVE DR PACE, FL 32571 UNITED STATES US

SHIP DATE: 20SEP19
ACT WT: 85.50 LB
CWB: 598900/58FE2021
DIM: 24x13x14 IN
BILL THIRD PARTY

TO SAMPLE CONTROL
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

REF: (555) 555-5555 DEPT: (555) 555-5555



FedEx Express

4 of 5
SATURDAY 12:00P
PRIORITY OVERNIGHT
15238
PA-US PIT

MPS# 7899 5620 3462
Mstr# 7899 5620 3480

XO AGCA

Uncorrected temp Thermometer ID
CF 0 Initials JB
PT-WI-SR-001 effective 11/8/18

A 5 12:00 3462 09.21

RT 639 ST 6

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- 13

ORIGIN ID: BIXA (850) 336-0192
RICK HAGENDORFER

SHIP DATE: 20SEP19
ACTWT: 70.10 LB
CAD: 6993800/SSFE2021
DIMS: 24x13x14 IN

RDH ENVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

BILL THIRD PARTY

TO **SAMPLE CONTROL
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238**

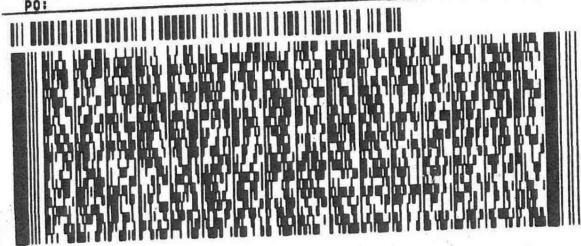
(666) 555-5555

REF:

DEPT:

INU:

PO:



FedEx
Express



5 of 5
MPS# 7899 5620 3473
0263
Metr# 7899 5620 3430

**SATURDAY 12:00
PRIORITY OVERNIGHT**

XO AGCA

0201

15238
PA-US RT

Uncorrected temp _____ °C
Thermometer ID _____

116
10

CF _____ Initials B

PT-WI-SR-001 effective 11/8/18



RT 639
ST 6
5
12:00
A
3473
09/21

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Bortol, Veronica	Carrier Tracking No(s): 180-374217.1
Client Contact: Shipping/Receiving		E-Mail: veronica.bortol@testamericainc.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):	Job #: 180-96046-1
Address: 13715 Rider Trail North, Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Due Date Requested: 10/3/2019	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 - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)
Project Name: CCR - Plant Watson		Project #: 18020186	Analysis Requested
Site:		SSOW#:	
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time
Sample Type (C=comp, G=grab)		Sample Time	Sample Time
Matrix (W=water, S=solid, O=swab/roll, BT=TISSUE, A=Air)		Sample Time	Sample Time
Preservation Code:		Sample Time	Sample Time
Field Filtered Sample (Yes or No)		Sample Time	Sample Time
Perform MS/MSD (Yes or No)		Sample Time	Sample Time
915_Ra226/PreSep_21 Radium 226		Sample Time	Sample Time
930_Ra228/PreSep_0 Radium 228		Sample Time	Sample Time
Ra226Ra228_GFPc		Sample Time	Sample Time
Total Number of Containers		Sample Time	Sample Time
4D-GS (180-96046-1)		9/20/19	08:55 Eastern
4A-GS (180-96046-2)		9/20/19	11:05 Eastern
3S-GS (180-96046-3)		9/20/19	14:20 Eastern
4B-GS (180-96046-4)		9/20/19	10:19 Eastern
6D-GS (180-96046-5)		9/20/19	14:25 Eastern
EB-01 (180-96046-6)		9/20/19	07:58 Eastern
FB-01 (180-96046-7)		9/20/19	08:35 Eastern
DUP-02 (180-96046-8)		9/20/19	12:00 Eastern
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	
Empty Kit Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	
Method of Shipment:		Date/Time:	
Received by:		Date/Time:	
Received by:		Date/Time:	
Received by:		Date/Time:	
Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	



1
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ORIGIN ID:AGCA (412) 963-7058
EUROFINS TESTAMERICA PITTSBURGH
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE

SHIP DATE: 23SEP19
ACTWGT: 45.00 LB MAN
CAD: 741733/CAFE3211

PITTSBURGH, PA 152381330
UNITED STATES US

BILL RECIPIENT

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990
PO: YES

REF: 6180-54754

DEPT: SAMPLE RECEIVING

551C1/9004/204C

ORIGIN ID:AGCA (412) 963-7058
EUROFINS TESTAMERICA PITTSBURGH
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE

SHIP DATE: 23SEP19
ACTWGT: 45.00 LB MAN
CAD: 741733/CAFE3211

PITTSBURGH, PA 152381330
UNITED STATES US

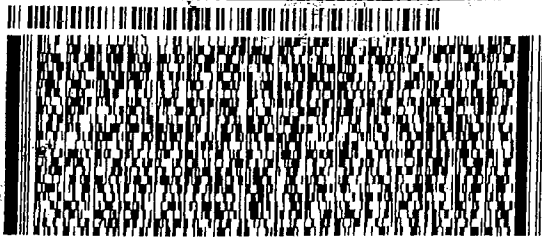
BILL RECIPIENT

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990
PO: YES

REF: 6180-54754

DEPT: SAMPLE RECEIVING



FedEx
Express



J181118060501 BY

7 of 2

MPS# 4818 7135 1454
0253

Mstr# 4818 7135 1443

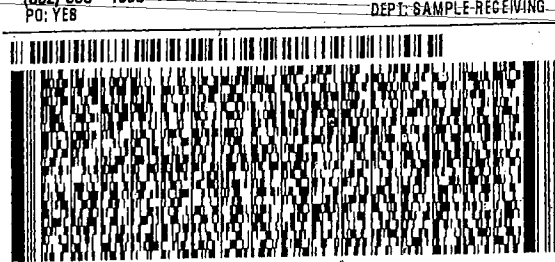
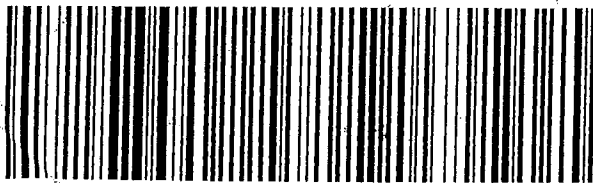
0201

TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403

VT-US BTV



FedEx
Exp



1 of 2

TRK# 4818 7135 1443
0201

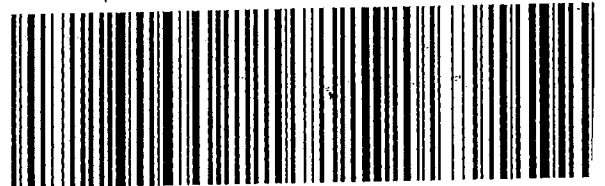
MASTER

TUE - 24 SEP 10:
PRIORITY OVERNIGHT

NL BTVA

054

VT-US E





Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	COC No:										
10 Hazelwood Drive, Amherst, NY 14228-2298		Bortot, Veronica	Bortot, Veronica	180-374181.1										
Project Name: CCR - Plant Watson		Phone:	E-Mail:	Page:										
Site:		veronica.bortot@testamericainc.com	veronica.bortot@testamericainc.com	Page 1 of 1										
Address:		Accreditations Required (See note):		Job #:										
10 Hazelwood Drive, Amherst, NY 14228-2298		TestAmerica Laboratories, Inc.		180-96046-1										
City:		Due Date Requested:		Preservation Codes:										
Amherst		10/3/2019		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:		TAT Requested (days):		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)										
PO #:		WO #:		Total Number of Containers										
716-691-2600(Tel) 716-691-7991(Fax)				4										
Email:		Project #:		Special Instructions/Note:										
		18020186												
SSOW#:		Site:												
		CCR - Plant Watson												
		Site:												
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, AA=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	23208	SM4500_H+	2540C_Calcd	4500_P_E (MOD) Local Method	350_1/Disill_Ammonia (MOD) Local Method	353_2_Pres	1664B/1664B_P_W (MOD) Local Method	351_2/351_2_Prep
4D-GS (180-96046-1)	9/20/19	08:55 Eastern		Water	X	X	X	X	X	X	X	X	X	X
4A-GS (180-96046-2)	9/20/19	11:05 Eastern		Water	X	X	X	X	X	X	X	X	X	X
3S-GS (180-96046-3)	9/20/19	14:20 Eastern		Water	X	X	X	X	X	X	X	X	X	X
4B-GS (180-96046-4)	9/20/19	10:19 Eastern		Water	X	X	X	X	X	X	X	X	X	X
6D-GS (180-96046-5)	9/20/19	14:25 Eastern		Water	X	X	X	X	X	X	X	X	X	X
EB-01 (180-96046-6)	9/20/19	07:58 Eastern		Water	X	X	X	X	X	X	X	X	X	X
FB-01 (180-96046-7)	9/20/19	08:35 Eastern		Water	X	X	X	X	X	X	X	X	X	X
DUP-02 (180-96046-8)	9/20/19	12:00 Eastern		Water	X	X	X	X	X	X	X	X	X	X

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Primary Deliverable Rank: 2		Time: _____ Method of Shipment: _____	
Empty Kit Relinquished by: _____ Date: _____		Received by: _____ Date/Time: _____ Company: _____	
Relinquished by: _____ Date/Time: _____ Company: _____		Received by: _____ Date/Time: _____ Company: _____	
Relinquished by: _____ Date/Time: _____ Company: _____		Received by: _____ Date/Time: _____ Company: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: #1 4.9°C	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96046-1

Login Number: 96046

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96046-1

Login Number: 96046

List Number: 3

Creator: Stopa, Erik S

List Source: Eurofins TestAmerica, Buffalo

List Creation: 09/24/19 01:14 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	4.9 ICE IRGUN #1
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96046-1

Login Number: 96046

List Number: 2

Creator: McNabb, Robert W

List Source: Eurofins TestAmerica, Burlington

List Creation: 09/24/19 11:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	2.0°C, 1.5°C
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?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-96046-2
Client Project/Site: CCR - Plant Watson

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
10/31/2019 9:39:18 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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.

PA Lab ID: 02-00416

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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Job ID: 180-96046-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-96046-2

Comments

No additional comments.

Receipt

The samples were received on 9/21/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.3° C, 1.6° C, 1.6° C, 3.4° C and 3.4° C.

RAD

Method 9315: Radium-226 Prep Batch 160-444175

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7), DUP-02 (180-96046-8), (LCS 160-444175/2-B) and (MB 160-444175/22-A)

Method 9320: <Ra-228> Prep Batch 160-444178

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7), DUP-02 (180-96046-8), (LCS 160-444178/2-B) and (MB 160-444178/22-A)

Method PrecSep_0: Radium 228 Prep Batch 160-444175:

The following sample had cloudy discoloration:4D-GS (180-96046-1).

Method PrecSep_0: Radium 228 Prep Batch 160-444175:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision

Method PrecSep_0: Radium 228 Prep Batch 160-445767:

The following samples were prepared at a reduced aliquot due to limited volume for re-prep: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8). Sample 180-96046-D-1 had light yellow discoloration.

Method PrecSep_0: Radium 228 Prep Batch 160-445767:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-444175:

The following sample had cloudy discoloration:4D-GS (180-96046-1).

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Job ID: 180-96046-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Method PrecSep-21: Radium 226 Prep Batch 160-444175:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-445766:

The following samples were prepared at a reduced aliquot due to limited volume for re-prep: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8). Sample 180-96046-D-1 had light yellow discoloration.

Method PrecSep-21: Radium 226 Prep Batch 160-445766:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 4D-GS (180-96046-1), 4A-GS (180-96046-2), 3S-GS (180-96046-3), 4B-GS (180-96046-4), 6D-GS (180-96046-5), EB-01 (180-96046-6), FB-01 (180-96046-7) and DUP-02 (180-96046-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

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	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)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19
Iowa	State	373	09-17-20
Iowa	State Program	373	12-01-20
Kansas	NELAP	E-10236	10-31-19 *
Kentucky (DW)	State	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
Washington	State Program	C592	08-30-20
West Virginia DEP	State	381	10-31-19
West Virginia DEP	State Program	381	10-31-19 *

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

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-96046-1	4D-GS	Water	09/20/19 08:55	09/21/19 09:30	
180-96046-2	4A-GS	Water	09/20/19 11:05	09/21/19 09:30	
180-96046-3	3S-GS	Water	09/20/19 14:20	09/21/19 09:30	
180-96046-4	4B-GS	Water	09/20/19 10:19	09/21/19 09:30	
180-96046-5	6D-GS	Water	09/20/19 14:25	09/21/19 09:30	
180-96046-6	EB-01	Water	09/20/19 07:58	09/21/19 09:30	
180-96046-7	FB-01	Water	09/20/19 08:35	09/21/19 09:30	
180-96046-8	DUP-02	Water	09/20/19 12:00	09/21/19 09:30	



Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

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
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

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

Laboratory References:

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



Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: 4D-GS

Date Collected: 09/20/19 08:55

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.77 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:49	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.77 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:12	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 4A-GS

Date Collected: 09/20/19 11:05

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.33 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:49	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.33 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:12	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 3S-GS

Date Collected: 09/20/19 14:20

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.62 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:50	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.62 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:12	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 4B-GS

Date Collected: 09/20/19 10:19

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.32 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:50	KLS	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: 4B-GS

Date Collected: 09/20/19 10:19

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.32 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:12	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 6D-GS

Date Collected: 09/20/19 14:25

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.67 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:50	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.67 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:12	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-01

Date Collected: 09/20/19 07:58

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.04 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:50	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.04 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:13	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-01

Date Collected: 09/20/19 08:35

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.29 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:50	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.29 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:13	KLS	TAL SL
Instrument ID: GFPCPURPLE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: FB-01

Date Collected: 09/20/19 08:35

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL

Client Sample ID: DUP-02

Date Collected: 09/20/19 12:00

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.55 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:51	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.55 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:13	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447980	10/28/19 08:20	SMP	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

ORM = Octavia Moore

Batch Type: Analysis

KLS = Kody Saulters

SMP = Siobhan Perry

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: 4D-GS

Date Collected: 09/20/19 08:55

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-1

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	0.939		0.177	0.196	1.00	0.123	pCi/L	09/25/19 15:02	10/18/19 08:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					09/25/19 15:02	10/18/19 08:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.51		0.448	0.552	1.00	0.414	pCi/L	09/25/19 15:15	10/10/19 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					09/25/19 15:15	10/10/19 09:12	1
Y Carrier	87.1		40 - 110					09/25/19 15:15	10/10/19 09:12	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	4.45		0.482	0.586	5.00	0.414	pCi/L		10/28/19 08:20	1

Client Sample ID: 4A-GS

Date Collected: 09/20/19 11:05

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-2

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	1.09		0.191	0.215	1.00	0.116	pCi/L	09/25/19 15:02	10/18/19 08:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					09/25/19 15:02	10/18/19 08:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.18		0.382	0.431	1.00	0.404	pCi/L	09/25/19 15:15	10/10/19 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					09/25/19 15:15	10/10/19 09:12	1
Y Carrier	86.0		40 - 110					09/25/19 15:15	10/10/19 09:12	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: 4A-GS

Date Collected: 09/20/19 11:05

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-2

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	3.28		0.427	0.482	5.00	0.404	pCi/L		10/28/19 08:20	1

Client Sample ID: 3S-GS

Date Collected: 09/20/19 14:20

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-3

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	0.139		0.0863	0.0872	1.00	0.119	pCi/L	09/25/19 15:02	10/18/19 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					09/25/19 15:02	10/18/19 08:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.621		0.267	0.273	1.00	0.380	pCi/L	09/25/19 15:15	10/10/19 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					09/25/19 15:15	10/10/19 09:12	1
Y Carrier	81.5		40 - 110					09/25/19 15:15	10/10/19 09:12	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	0.759		0.281	0.287	5.00	0.380	pCi/L		10/28/19 08:20	1

Client Sample ID: 4B-GS

Date Collected: 09/20/19 10:19

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96046-4

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	0.261		0.0978	0.101	1.00	0.0969	pCi/L	09/25/19 15:02	10/18/19 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					09/25/19 15:02	10/18/19 08:50	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: 4B-GS

Lab Sample ID: 180-96046-4

Date Collected: 09/20/19 10:19

Matrix: Water

Date Received: 09/21/19 09:30

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.659		0.285	0.291	1.00	0.411	pCi/L	09/25/19 15:15	10/10/19 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					09/25/19 15:15	10/10/19 09:12	1
Y Carrier	82.6		40 - 110					09/25/19 15:15	10/10/19 09:12	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	0.921		0.301	0.308	5.00	0.411	pCi/L		10/28/19 08:20	1

Client Sample ID: 6D-GS

Lab Sample ID: 180-96046-5

Date Collected: 09/20/19 14:25

Matrix: Water

Date Received: 09/21/19 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.08		0.298	0.407	1.00	0.123	pCi/L	09/25/19 15:02	10/18/19 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		40 - 110					09/25/19 15:02	10/18/19 08:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.29		0.427	0.523	1.00	0.387	pCi/L	09/25/19 15:15	10/10/19 09:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		40 - 110					09/25/19 15:15	10/10/19 09:12	1
Y Carrier	86.7		40 - 110					09/25/19 15:15	10/10/19 09:12	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	6.37		0.521	0.663	5.00	0.387	pCi/L		10/28/19 08:20	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: EB-01

Lab Sample ID: 180-96046-6

Date Collected: 09/20/19 07:58

Matrix: Water

Date Received: 09/21/19 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00374	U	0.0607	0.0607	1.00	0.121	pCi/L	09/25/19 15:02	10/18/19 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					09/25/19 15:02	10/18/19 08:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.216	U	0.218	0.219	1.00	0.355	pCi/L	09/25/19 15:15	10/10/19 09:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					09/25/19 15:15	10/10/19 09:13	1
Y Carrier	90.1		40 - 110					09/25/19 15:15	10/10/19 09:13	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	0.226	0.227	5.00	0.355	pCi/L		10/28/19 08:20	1

Client Sample ID: FB-01

Lab Sample ID: 180-96046-7

Date Collected: 09/20/19 08:35

Matrix: Water

Date Received: 09/21/19 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0195	U	0.0533	0.0533	1.00	0.116	pCi/L	09/25/19 15:02	10/18/19 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					09/25/19 15:02	10/18/19 08:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.404		0.213	0.217	1.00	0.316	pCi/L	09/25/19 15:15	10/10/19 09:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					09/25/19 15:15	10/10/19 09:13	1
Y Carrier	89.7		40 - 110					09/25/19 15:15	10/10/19 09:13	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Client Sample ID: FB-01

Lab Sample ID: 180-96046-7

Date Collected: 09/20/19 08:35

Matrix: Water

Date Received: 09/21/19 09:30

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	0.384		0.220	0.223	5.00	0.316	pCi/L		10/28/19 08:20	1

Client Sample ID: DUP-02

Lab Sample ID: 180-96046-8

Date Collected: 09/20/19 12:00

Matrix: Water

Date Received: 09/21/19 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.274		0.116	0.119	1.00	0.137	pCi/L	09/25/19 15:02	10/18/19 08:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					09/25/19 15:02	10/18/19 08:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.985		0.315	0.328	1.00	0.417	pCi/L	09/25/19 15:15	10/10/19 09:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					09/25/19 15:15	10/10/19 09:13	1
Y Carrier	81.9		40 - 110					09/25/19 15:15	10/10/19 09:13	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	1.26		0.336	0.349	5.00	0.417	pCi/L		10/28/19 08:20	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-444175/22-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444175

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.04546	U	0.0492	0.0494	1.00	0.122	pCi/L	09/25/19 15:02	10/18/19 10:43	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier								
Ba Carrier	96.3		40 - 110		09/25/19 15:02	10/18/19 10:43	1			

Lab Sample ID: LCS 160-444175/2-B
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444175

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.442		1.00	1.00	0.137	pCi/L	83	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier							
Ba Carrier	95.8		40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-444178/22-A
Matrix: Water
Analysis Batch: 445721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444178

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.5422		0.261	0.266	1.00	0.381	pCi/L	09/25/19 15:15	10/10/19 09:16	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier								
Ba Carrier	96.3		40 - 110		09/25/19 15:15	10/10/19 09:16	1			
Y Carrier	84.9		40 - 110		09/25/19 15:15	10/10/19 09:16	1			

Lab Sample ID: LCS 160-444178/2-B
Matrix: Water
Analysis Batch: 445720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444178

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-228	9.51	9.766		1.13	1.00	0.425	pCi/L	103	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier							
Ba Carrier	95.8		40 - 110						
Y Carrier	84.9		40 - 110						

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96046-2

Rad

Prep Batch: 444175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	PrecSep-21	
180-96046-2	4A-GS	Total/NA	Water	PrecSep-21	
180-96046-3	3S-GS	Total/NA	Water	PrecSep-21	
180-96046-4	4B-GS	Total/NA	Water	PrecSep-21	
180-96046-5	6D-GS	Total/NA	Water	PrecSep-21	
180-96046-6	EB-01	Total/NA	Water	PrecSep-21	
180-96046-7	FB-01	Total/NA	Water	PrecSep-21	
180-96046-8	DUP-02	Total/NA	Water	PrecSep-21	
MB 160-444175/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-444175/2-B	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 444178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96046-1	4D-GS	Total/NA	Water	PrecSep_0	
180-96046-2	4A-GS	Total/NA	Water	PrecSep_0	
180-96046-3	3S-GS	Total/NA	Water	PrecSep_0	
180-96046-4	4B-GS	Total/NA	Water	PrecSep_0	
180-96046-5	6D-GS	Total/NA	Water	PrecSep_0	
180-96046-6	EB-01	Total/NA	Water	PrecSep_0	
180-96046-7	FB-01	Total/NA	Water	PrecSep_0	
180-96046-8	DUP-02	Total/NA	Water	PrecSep_0	
MB 160-444178/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-444178/2-B	Lab Control Sample	Total/NA	Water	PrecSep_0	



151967 REV 7/08 RRD

av Delivery

Uncorrected temp
Thermometer ID 2.4
10

CF 0 Initials B

PT-WI-SR-001 effective 11/8/18

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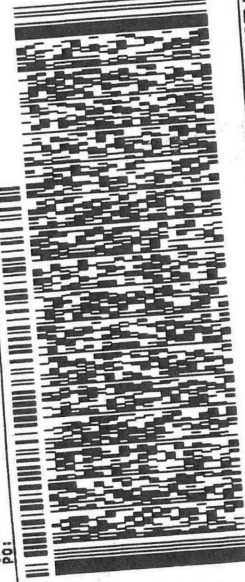
Part # 156207 2825 12/19

SHIP DATE: 20SEP19
ACTWT: 57.40 LB
CAD: 6993800/SSFE2021
DIMS: 24x13x14 IN
BILL THIRD PARTY

ORIGIN ID: BIXA (850) 336-0192
RICK HAGENDORFER
RDH ENVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

TO
SAMPLE CONTROL
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(565) 666-6666
REF: (565) 666-6666
DEPT: 1101



SATURDAY 12:00P
PRIORITY OVERNIGHT

2 of 5
MPS# 7899 5620 3440
0263
Mistr# 7899 5620 3430

0201

XO AGCA

15238
PA-US
PI



Uncorrected temp
Thermometer ID

Initials

CF 0

PT-WI-SR-001 effective 11/8/18

RT 639
ST 6
5 12:00
A
3440
09.21

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Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 398-0192
RICK HASENDORFER

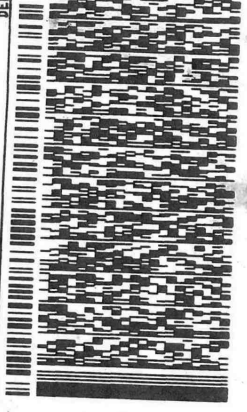
RDH ENVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

SHIP DATE: 20SEF19
ACT WT: 5.30 LB
CAD: 699300/3SFE2021
DIMS: 24x19x14 IN
BILL THIRD PARTY

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(556) 565-5566
REF: 101
P01

DEPT:



FedEx Express

11292019062401 01

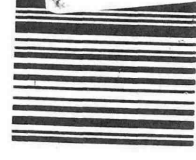
3 of 5
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# **7899 5620 3451**
0263
Met# **7899 5620 5430**
0201

XO AGCA

15238
PA-US
PIT

Uncorrected temp
Thermometer ID



CF 0 Initials B

2.4 °C
1.0

PT-WI-SR-001 effective 11/8/18

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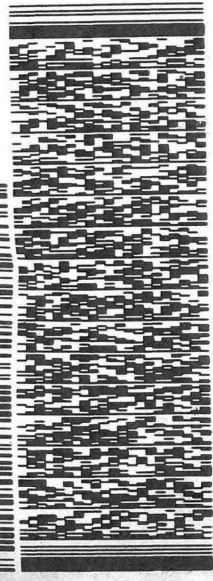
398-0192

ORIGIN: RICK HAGE
RDH EVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

SHIP DATE: 20SEP19
ACT WT: 85.50 LB
CWB: 5989800/58FE2021
DIM: 24x13x14 IN
BILL THIRD PARTY

TO SAMPLE CONTROL
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

REF: (555) 555-5555
DEPT: (555) 555-5555
PO: (555) 555-5555



4 of 5
SATURDAY 12:00P
PRIORITY OVERNIGHT
15238
PA-US PIT

MPS# 7899 5620 3462
Mstr# 7899 5620 3480

XO AGCA

Uncorrected temp Thermometer ID
CF 0 Initials JB
PT-WI-SR-001 effective 11/8/18

A 5 12:00 3462 09.21

RT 639 ST 6

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ORIGIN ID: BIXA (850) 336-0192
RICK HAGENDORFER

SHIP DATE: 20SEP19
ACTWTG: 70.10 LB
CAD: 6993800/SSFE2021
DIMS: 24x13x14 IN

RDH ENVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

BILL THIRD PARTY

TO **SAMPLE CONTROL
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238**

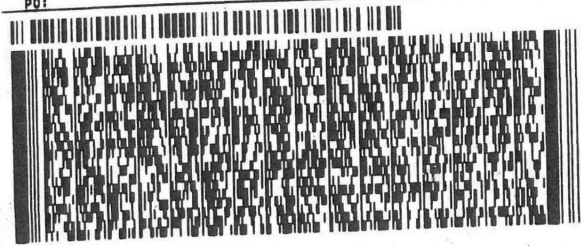
(666) 555-5555

REF:

DEPT:

INU:

PO:



FedEx
Express



5 of 5
MPS# 7899 5620 3473
0263
Metr# 7899 5620 3430

**SATURDAY 12:00
PRIORITY OVERNIGHT**

XO AGCA

0201

15238
PA-US RT

Uncorrected temp
Thermometer ID

1.6 °C
10

CF 6 Initials B

PT-WI-SR-001 effective 11/8/18



RT 639
ST 6
5
12:00
A
3473
09/21

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96046-2

Login Number: 96046

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96046-2

Login Number: 96046
List Number: 4
Creator: Harris, Lorin C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 09/24/19 05:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
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.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-96077-1
Client Project/Site: CCR - Plant Watson

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
10/24/2019 4:43:47 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

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www.testamericainc.com

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.

PA Lab ID: 02-00416

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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Job ID: 180-96077-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-96077-1

Comments

No additional comments.

Receipt

The samples were received on 9/24/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.5° C, 1.6° C, 1.8° C and 4.0° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 5D-GS (180-96077-2). The container labels for the toc containers only list a sample id of 5D-GR, while the COC lists 5D-GS. The id on the COC was used.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method SM 5310C: The RPD between the duplicate analyses was >10%. The difference between the results was less than the reporting limit; therefore the results are reported with this NCM.

7D-GS (180-96077-3)

Method SM 5310C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 180-294581. LCS/LCSD analyzed.

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 5S-GS (180-96077-1), 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4), FB-02 (180-96077-5), EB-02 (180-96077-6) and DUP-03 (180-96077-7).

Method SM 2320B: Due to the high concentration of alkalinity, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 480-495181 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 351.2: The inter-parameter relationship does not meet acceptable criteria. Reanalysis was preformed, and the results confirmed.

6S-GS (180-96077-4), FB-02 (180-96077-5) and EB-02 (180-96077-6)

Method SM 2540C: Reanalysis of the following samples were performed outside of the analytical holding time due to first result was over-residue; both results are reported : 5S-GS (180-96077-1), 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4) and DUP-03 (180-96077-7).

Method SM 2540C: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: 5S-GS (180-96077-1), 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4) and DUP-03 (180-96077-7). The reporting limits (RLs) have been adjusted proportionately.

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Job ID: 180-96077-1 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Qualifiers

GC VOA

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.

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.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Laboratory: Eurofins TestAmerica, Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
California	State	2931	04-01-20
Connecticut	State	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	03-31-20
Georgia	State Program	10026 (NY)	03-31-20
Georgia (DW)	State	956	03-31-20
Iowa	State	374	02-28-21
Kansas	NELAP	E-10187	01-31-20
Kentucky (DW)	State	90029	12-31-20
Kentucky (UST)	State	30	03-31-20
Kentucky (UST)	State Program	30	03-31-20
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-05-20
Maine	State Program	NY00044	12-04-20
Maryland	State	294	03-31-20
Massachusetts	State	M-NY044	06-30-20
Massachusetts	State Program	M-NY044	06-30-20
Michigan	State	9937	03-31-20
Minnesota	NELAP	1524384	12-31-19
New Hampshire	NELAP	2337	11-17-19 *
New Hampshire	NELAP	2337	11-17-19
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-01-20
North Dakota	State	R-176	03-31-20
Oklahoma	State	9421	09-01-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Rhode Island	State	LAO00328	12-30-20
Tennessee	State	02970	03-31-20
Texas	NELAP	T104704412-18-10	08-01-20
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Virginia	NELAP	460185	09-14-20
Washington	State	C784	02-10-20
Wisconsin	State	998310390	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Pittsburgh

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-20
Connecticut	State	PH-0751	09-30-19 *
Connecticut	State Program	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-19
New Hampshire	NELAP	2006	12-18-19
New Hampshire	NELAP	2006	10-18-19
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	03-31-20
Pennsylvania	NELAP	68-00489	04-30-20
Rhode Island	State	LAO00298	12-30-19
Rhode Island	State Program	LAO00298	12-30-19
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-19
Virginia	NELAP	460209	12-14-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Pittsburgh



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-96077-1	5S-GS	Water	09/23/19 10:00	09/24/19 09:45	
180-96077-2	5D-GS	Water	09/23/19 12:20	09/24/19 09:45	
180-96077-3	7D-GS	Water	09/23/19 11:20	09/24/19 09:45	
180-96077-4	6S-GS	Water	09/23/19 14:14	09/24/19 09:45	
180-96077-5	FB-02	Water	09/23/19 08:50	09/24/19 09:45	
180-96077-6	EB-02	Water	09/23/19 09:06	09/24/19 09:45	
180-96077-7	DUP-03	Water	09/23/19 07:00	09/24/19 09:45	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL BUR
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL PIT
1664B	HEM and SGT-HEM	1664B	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL PIT
SM 4500 CO2 B	Free Carbon Dioxide	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF
SM 5310C	Total Organic Carbon	SM	TAL PIT
1664B	HEM and SGT-HEM (Aqueous)	1664B	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
7470A	Preparation, Mercury	SW846	TAL PIT
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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 BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 5S-GS

Lab Sample ID: 180-96077-1

Date Collected: 09/23/19 10:00

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147746	09/25/19 19:24	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292385	09/24/19 13:01	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292385	09/24/19 13:46	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293749	10/03/19 15:53	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293883	10/04/19 13:51	WTR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293908	10/05/19 17:21	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:23	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			294117	10/08/19 11:47	MM1	TAL PIT
Total/NA	Prep	1664B			968 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494980	09/30/19 13:45	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		1	5 mL	5 mL	495213	10/01/19 13:03	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495571	10/02/19 19:49	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495816	10/03/19 10:15	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494814	09/29/19 14:24	RLM	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator2		1	25 mL	25 mL	495181	09/30/19 22:05	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495439	10/02/19 11:52	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 21:05	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genysis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 5S-GS

Date Collected: 09/23/19 10:00

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5310C		1			294581	10/10/19 17:51	TAM	TAL PIT

Client Sample ID: 5D-GS

Date Collected: 09/23/19 12:20

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147746	09/25/19 19:33	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292385	09/24/19 14:01	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292385	09/24/19 14:16	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293749	10/03/19 15:56	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293883	10/04/19 13:54	WTR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293908	10/05/19 17:25	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:25	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			294117	10/08/19 11:47	MM1	TAL PIT
Total/NA	Prep	1664B			981 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494980	09/30/19 13:45	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		5	5 mL	5 mL	495217	10/01/19 13:31	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495571	10/02/19 19:49	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495816	10/03/19 10:15	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LACHAT3		1	5 mL	5 mL	494814	09/29/19 14:25	RLM	TAL BUF
Total/NA	Analysis	SM 2320B Instrument ID: PC_Titrator		1	25 mL	25 mL	496193	10/05/19 00:36	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495439	10/02/19 11:52	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 5D-GS

Lab Sample ID: 180-96077-2

Date Collected: 09/23/19 12:20

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 CO2 B		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 21:11	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genysis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294581	10/10/19 18:06	TAM	TAL PIT

Client Sample ID: 7D-GS

Lab Sample ID: 180-96077-3

Date Collected: 09/23/19 11:20

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147746	09/25/19 19:41	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292385	09/24/19 14:31	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292385	09/24/19 14:46	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293749	10/03/19 16:06	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293883	10/04/19 13:58	WTR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293908	10/05/19 17:28	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:26	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			294117	10/08/19 11:47	MM1	TAL PIT
Total/NA	Prep	1664B			972 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494980	09/30/19 13:45	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		5	5 mL	5 mL	495213	10/01/19 13:16	CLT	TAL BUF
Total/NA	Prep	351.2			25 mL	25 mL	495571	10/02/19 19:49	LAW	TAL BUF
Total/NA	Analysis	351.2 Instrument ID: KONE1		1			495816	10/03/19 10:15	KEB	TAL BUF
Total/NA	Analysis	353.2 Instrument ID: LCHAT3		1	5 mL	5 mL	494814	09/29/19 14:26	RLM	TAL BUF

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 7D-GS

Lab Sample ID: 180-96077-3

Date Collected: 09/23/19 11:20

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	496193	10/05/19 00:43	AEF	TAL BUF
Total/NA	Analysis	SM 2540C Instrument ID: Balance-1		1	10 mL	100 mL	495439	10/02/19 11:52	CSS	TAL BUF
Total/NA	Analysis	SM 2540D Instrument ID: NOEQUIP		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT
Total/NA	Analysis	SM 4500 CO2 B Instrument ID: NOEQUIP		1			499249	10/21/19 13:52	MTM2	TAL BUF
Total/NA	Analysis	SM 4500 H+ B Instrument ID: PC_Titrator		1			495182	09/30/19 21:13	AEF	TAL BUF
Total/NA	Analysis	SM 4500 P E Instrument ID: Genysis Spec3		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			294581	10/10/19 18:21	TAM	TAL PIT

Client Sample ID: 6S-GS

Lab Sample ID: 180-96077-4

Date Collected: 09/23/19 14:14

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175 Instrument ID: CH1031.i		1	18 mL	18 mL	147746	09/25/19 19:50	MLT	TAL BUR
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		25			292385	09/24/19 15:01	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		250			292385	09/24/19 15:16	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293749	10/03/19 16:10	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293883	10/04/19 14:01	WTR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		10			293908	10/05/19 17:31	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			294165	10/08/19 12:27	RJR	TAL PIT
Total Recoverable	Analysis	SM 2340B Instrument ID: NOEQUIP		1			294117	10/08/19 11:47	MM1	TAL PIT
Total/NA	Prep	1664B			958 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B Instrument ID: NOEQUIP		1			494980	09/30/19 13:45	CRK	TAL BUF
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1 Instrument ID: LACHAT1		5	5 mL	5 mL	495217	10/01/19 13:33	CLT	TAL BUF

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 6S-GS

Lab Sample ID: 180-96077-4

Date Collected: 09/23/19 14:14

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			25 mL	25 mL	495838	10/03/19 18:05	LAW	TAL BUF
Total/NA	Analysis	351.2		1			496240	10/06/19 14:05	KEB	TAL BUF
		Instrument ID: KONE1								
Total/NA	Analysis	353.2		1	5 mL	5 mL	494814	09/29/19 14:27	RLM	TAL BUF
		Instrument ID: LACHAT3								
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	496193	10/05/19 01:25	AEF	TAL BUF
		Instrument ID: PC_Titrator								
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	495439	10/02/19 11:52	CSS	TAL BUF
		Instrument ID: Balance-1								
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 CO2 B		1			499249	10/21/19 13:52	MTM2	TAL BUF
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1			495182	09/30/19 21:16	AEF	TAL BUF
		Instrument ID: PC_Titrator								
Total/NA	Analysis	SM 4500 P E		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
		Instrument ID: Genysis Spec3								
Total/NA	Analysis	SM 5310C		1			294581	10/10/19 18:36	TAM	TAL PIT
		Instrument ID: TOC1030								

Client Sample ID: FB-02

Lab Sample ID: 180-96077-5

Date Collected: 09/23/19 08:50

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	147746	09/25/19 19:59	MLT	TAL BUR
		Instrument ID: CH1031.i								
Total/NA	Analysis	EPA 300.0 R2.1		1			292385	09/24/19 16:00	CMR	TAL PIT
		Instrument ID: CHICS2000								
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293749	10/03/19 16:13	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293883	10/04/19 14:04	WTR	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293908	10/05/19 17:35	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 12:28	RJR	TAL PIT
		Instrument ID: HGY								
Total Recoverable	Analysis	SM 2340B		1			294117	10/08/19 11:47	MM1	TAL PIT
		Instrument ID: NOEQUIP								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: FB-02

Lab Sample ID: 180-96077-5

Date Collected: 09/23/19 08:50

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664B			958 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B		1			494980	09/30/19 13:45	CRK	TAL BUF
Instrument ID: NOEQUIP										
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1		1	5 mL	5 mL	495213	10/01/19 13:07	CLT	TAL BUF
Instrument ID: LACHAT1										
Total/NA	Prep	351.2			25 mL	25 mL	495838	10/03/19 18:05	LAW	TAL BUF
Total/NA	Analysis	351.2		1			496240	10/06/19 14:05	KEB	TAL BUF
Instrument ID: KONE1										
Total/NA	Analysis	353.2		1	5 mL	5 mL	494814	09/29/19 14:29	RLM	TAL BUF
Instrument ID: LACHAT3										
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	496193	10/05/19 01:12	AEF	TAL BUF
Instrument ID: PC_Titrator										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	494505	09/27/19 09:27	CSS	TAL BUF
Instrument ID: Balance-1										
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 CO2 B		1			499249	10/21/19 13:52	MTM2	TAL BUF
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1			495182	09/30/19 21:19	AEF	TAL BUF
Instrument ID: PC_Titrator										
Total/NA	Analysis	SM 4500 P E		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
Instrument ID: Genysis Spec3										
Total/NA	Analysis	SM 5310C		1			294581	10/10/19 18:50	TAM	TAL PIT
Instrument ID: TOC1030										

Client Sample ID: EB-02

Lab Sample ID: 180-96077-6

Date Collected: 09/23/19 09:06

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	147746	09/25/19 20:08	MLT	TAL BUR
Instrument ID: CH1031.i										
Total/NA	Analysis	EPA 300.0 R2.1		1			292385	09/24/19 16:45	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293749	10/03/19 16:16	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293883	10/04/19 14:15	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 12:29	RJR	TAL PIT
Instrument ID: HGY										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: EB-02
Date Collected: 09/23/19 09:06
Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	SM 2340B		1			294117	10/08/19 11:47	MM1	TAL PIT
Total/NA	Prep	1664B			957 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B		1			494980	09/30/19 13:45	CRK	TAL BUF
		Instrument ID: NOEQUIP								
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1		10	5 mL	5 mL	495217	10/01/19 13:34	CLT	TAL BUF
		Instrument ID: LACHAT1								
Total/NA	Prep	351.2			25 mL	25 mL	495838	10/03/19 18:05	LAW	TAL BUF
Total/NA	Analysis	351.2		1			496240	10/06/19 14:05	KEB	TAL BUF
		Instrument ID: KONE1								
Total/NA	Analysis	353.2		1	5 mL	5 mL	494814	09/29/19 14:30	RLM	TAL BUF
		Instrument ID: LACHAT3								
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	496193	10/05/19 01:36	AEF	TAL BUF
		Instrument ID: PC_Titrator								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	494505	09/27/19 09:27	CSS	TAL BUF
		Instrument ID: Balance-1								
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 CO2 B		1			499249	10/21/19 13:52	MTM2	TAL BUF
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1			495182	09/30/19 21:22	AEF	TAL BUF
		Instrument ID: PC_Titrator								
Total/NA	Analysis	SM 4500 P E		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
		Instrument ID: Genysis Spec3								
Total/NA	Analysis	SM 5310C		1			294581	10/10/19 19:34	TAM	TAL PIT
		Instrument ID: TOC1030								

Client Sample ID: DUP-03
Date Collected: 09/23/19 07:00
Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	147746	09/25/19 20:16	MLT	TAL BUR
		Instrument ID: CH1031.i								
Total/NA	Analysis	EPA 300.0 R2.1		25			292385	09/24/19 15:31	CMR	TAL PIT
		Instrument ID: CHICS2000								
Total/NA	Analysis	EPA 300.0 R2.1		250			292385	09/24/19 15:46	CMR	TAL PIT
		Instrument ID: CHICS2000								
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293749	10/03/19 16:20	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	293045	09/28/19 06:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		10			293883	10/04/19 14:18	WTR	TAL PIT
		Instrument ID: A								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: DUP-03

Lab Sample ID: 180-96077-7

Date Collected: 09/23/19 07:00

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	293944	10/07/19 07:19	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			294165	10/08/19 12:33	RJR	TAL PIT
		Instrument ID: HGY								
Total Recoverable	Analysis	SM 2340B		1			294117	10/08/19 11:47	MM1	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Prep	1664B			960 mL	1000 mL	494943	09/30/19 11:52	CRK	TAL BUF
Total/NA	Analysis	1664B		1			494980	09/30/19 13:45	CRK	TAL BUF
		Instrument ID: NOEQUIP								
Total/NA	Prep	Distill/Ammonia			40 mL	40 mL	495150	10/01/19 06:45	CLT	TAL BUF
Total/NA	Analysis	350.1		5	5 mL	5 mL	495217	10/01/19 13:34	CLT	TAL BUF
		Instrument ID: LACHAT1								
Total/NA	Prep	351.2			25 mL	25 mL	495837	10/03/19 18:05	LAW	TAL BUF
Total/NA	Analysis	351.2		1			496240	10/06/19 12:23	KEB	TAL BUF
		Instrument ID: KONE1								
Total/NA	Analysis	353.2		1	5 mL	5 mL	494814	09/29/19 14:31	RLM	TAL BUF
		Instrument ID: LACHAT3								
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	496193	10/05/19 01:44	AEF	TAL BUF
		Instrument ID: PC_Titrator								
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	495439	10/02/19 11:52	CSS	TAL BUF
		Instrument ID: Balance-1								
Total/NA	Analysis	SM 2540D		1	1000 mL	1000 mL	292659	09/25/19 15:26	AGP	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 CO2 B		1			499249	10/21/19 13:52	MTM2	TAL BUF
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 4500 H+ B		1			495182	09/30/19 21:25	AEF	TAL BUF
		Instrument ID: PC_Titrator								
Total/NA	Analysis	SM 4500 P E		1	5 mL	5 mL	495438	10/02/19 11:35	RP	TAL BUF
		Instrument ID: Genysis Spec3								
Total/NA	Analysis	SM 5310C		1			294581	10/10/19 19:49	TAM	TAL PIT
		Instrument ID: TOC1030								

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Analyst References:

Lab: TAL BUF

Batch Type: Prep

CLT = Christine Thomas

CRK = Christian Kriner

LAW = Larry Wolfe

Batch Type: Analysis

AEF = Alex Fritz

CLT = Christine Thomas

CRK = Christian Kriner

CSS = Chandler Stone

KEB = Katherine Bauer

MTM2 = Michael Mosscrop

RLM = Rachel Molino

RP = Rosemary Pietras

Lab: TAL BUR

Batch Type: Analysis

MLT = Melissa Tice

Lab: TAL PIT

Batch Type: Prep

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

Batch Type: Analysis

AGP = Angela Partridge

CMR = Carl Reagle

MM1 = Mary Beth Miller

RJR = Ron Rosenbaum

RSK = Robert Kurtz

TAM = Tessa Mastalski

WTR = Bill Reinheimer

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 5S-GS

Lab Sample ID: 180-96077-1

Date Collected: 09/23/19 10:00

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 19:24	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/24/19 13:46	25
Nitrite as N	2.4		1.3	0.72	mg/L			09/24/19 13:46	25
Fluoride	<0.66		2.5	0.66	mg/L			09/24/19 13:46	25
Chloride	6300		250	180	mg/L			09/24/19 13:01	250
Bromide	21		13	2.2	mg/L			09/24/19 13:46	25
Sulfate	1200		25	9.5	mg/L			09/24/19 13:46	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/24/19 13:46	25

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0016	J	0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 15:53	1
Aluminum	0.093		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 15:53	1
Arsenic	0.16		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 15:53	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 15:53	1
Boron	18		0.80	0.39	mg/L		09/28/19 06:32	10/05/19 17:21	10
Cadmium	0.00070	J	0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 15:53	1
Barium	0.13		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 15:53	1
Chromium	0.0024		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 15:53	1
Copper	0.00078	J	0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 15:53	1
Calcium	740		0.50	0.13	mg/L		09/28/19 06:32	10/03/19 15:53	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 15:53	1
Nickel	0.015		0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 15:53	1
Cobalt	0.00049	J	0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 15:53	1
Selenium	0.0023	J	0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 15:53	1
Thallium	0.0014		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 15:53	1
Zinc	0.0035	J	0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 15:53	1
Iron	0.044	J	0.050	0.020	mg/L		09/28/19 06:32	10/03/19 15:53	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 15:53	1
Potassium	150		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 15:53	1
Magnesium	37		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 15:53	1
Manganese	0.052		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 15:53	1
Molybdenum	3.4		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 15:53	1
Sodium	2700		5.0	3.5	mg/L		09/28/19 06:32	10/04/19 13:51	10
Strontium	9.1		0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 15:53	1
Titanium	0.0033	J	0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 15:53	1
Vanadium	0.0062		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 15:53	1
SiO2, Silica	4.0		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 15:53	1
Lithium	0.14		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 15:53	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:23	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	2000		0.67	0.022	mg/L			10/08/19 11:47	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 5S-GS

Lab Sample ID: 180-96077-1

Date Collected: 09/23/19 10:00

Matrix: Water

Date Received: 09/24/19 09:45

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	1800		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	150		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.1	J B	5.2	1.4	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	1.7	B	0.20	0.10	mg/L		10/01/19 06:45	10/01/19 13:03	1
Total Kjeldahl Nitrogen	1.8		0.20	0.15	mg/L		10/02/19 19:49	10/03/19 10:15	1
Nitrate Nitrite as N	0.042	J	0.050	0.020	mg/L			09/29/19 14:24	1
Alkalinity, Total	48		5.0	0.79	mg/L			09/30/19 22:05	1
Alkalinity, Bicarbonate	35		5.0	0.79	mg/L			09/30/19 22:05	1
Alkalinity, Carbonate	14		5.0	0.79	mg/L			09/30/19 22:05	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 22:05	1
Total Dissolved Solids	6900	H	100	40	mg/L			10/02/19 11:52	1
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	0.20		0.10	0.10	mg/L			10/21/19 13:52	1
pH	8.5	HF	0.1	0.1	SU			09/30/19 21:05	1
Temperature	19.2	HF	0.001	0.001	Degrees C			09/30/19 21:05	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	0.94	J	1.0	0.51	mg/L			10/10/19 17:51	1

Client Sample ID: 5D-GS

Lab Sample ID: 180-96077-2

Date Collected: 09/23/19 12:20

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	140000		5000	1800	ug/L			09/25/19 19:33	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/24/19 14:01	25
Nitrite as N	2.5		1.3	0.72	mg/L			09/24/19 14:01	25
Fluoride	<0.66		2.5	0.66	mg/L			09/24/19 14:01	25
Chloride	2900		250	180	mg/L			09/24/19 14:16	250
Bromide	24		13	2.2	mg/L			09/24/19 14:01	25
Sulfate	1000		25	9.5	mg/L			09/24/19 14:01	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/24/19 14:01	25

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 15:56	1
Aluminum	<0.013		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 15:56	1
Arsenic	0.0045		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 15:56	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 15:56	1
Boron	13		0.80	0.39	mg/L		09/28/19 06:32	10/05/19 17:25	10
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 15:56	1
Barium	0.21		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 15:56	1
Chromium	0.0017	J	0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 15:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 5D-GS

Lab Sample ID: 180-96077-2

Date Collected: 09/23/19 12:20

Matrix: Water

Date Received: 09/24/19 09:45

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 15:56	1
Calcium	320		0.50	0.13	mg/L		09/28/19 06:32	10/03/19 15:56	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 15:56	1
Nickel	0.00051	J	0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 15:56	1
Cobalt	0.00026	J	0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 15:56	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 15:56	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 15:56	1
Zinc	0.0038	J	0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 15:56	1
Iron	75		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 15:56	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 15:56	1
Potassium	76		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 15:56	1
Magnesium	180		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 15:56	1
Manganese	0.92		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 15:56	1
Molybdenum	0.0028	J	0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 15:56	1
Sodium	2000		5.0	3.5	mg/L		09/28/19 06:32	10/04/19 13:54	10
Strontium	2.8		0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 15:56	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 15:56	1
Vanadium	0.0019		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 15:56	1
SiO2, Silica	31		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 15:56	1
Lithium	0.034		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 15:56	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:25	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1500		0.67	0.022	mg/L			10/08/19 11:47	1
Calcium hardness as calcium carbonate	800		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	730		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.1	J B	5.1	1.4	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	4.6	B	1.0	0.50	mg/L		10/01/19 06:45	10/01/19 13:31	5
Total Kjeldahl Nitrogen	4.6		0.20	0.15	mg/L		10/02/19 19:49	10/03/19 10:15	1
Nitrate Nitrite as N	0.031	J	0.050	0.020	mg/L			09/29/19 14:25	1
Alkalinity, Total	280		5.0	0.79	mg/L			10/05/19 00:36	1
Alkalinity, Bicarbonate	280		5.0	0.79	mg/L			10/05/19 00:36	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 00:36	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 00:36	1
Total Dissolved Solids	4700	H	100	40	mg/L			10/02/19 11:52	1
Total Suspended Solids	81		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	80		0.10	0.10	mg/L			10/21/19 13:52	1
pH	6.8	HF	0.1	0.1	SU			09/30/19 21:11	1
Temperature	18.8	HF	0.001	0.001	Degrees C			09/30/19 21:11	1
Phosphorus	0.046		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	3.0		1.0	0.51	mg/L			10/10/19 18:06	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 7D-GS

Lab Sample ID: 180-96077-3

Date Collected: 09/23/19 11:20

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	8600		5000	1800	ug/L			09/25/19 19:41	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/24/19 14:31	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/24/19 14:31	25
Fluoride	0.66	J	2.5	0.66	mg/L			09/24/19 14:31	25
Chloride	5200		250	180	mg/L			09/24/19 14:46	250
Bromide	18		13	2.2	mg/L			09/24/19 14:31	25
Sulfate	860		25	9.5	mg/L			09/24/19 14:31	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/24/19 14:31	25

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 16:06	1
Aluminum	0.033		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 16:06	1
Arsenic	0.0025		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 16:06	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:06	1
Boron	20		0.80	0.39	mg/L		09/28/19 06:32	10/05/19 17:28	10
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:06	1
Barium	0.23		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 16:06	1
Chromium	0.0024		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 16:06	1
Copper	0.00070	J	0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 16:06	1
Calcium	650		0.50	0.13	mg/L		09/28/19 06:32	10/03/19 16:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:06	1
Nickel	0.00065	J	0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 16:06	1
Cobalt	0.00038	J	0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 16:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 16:06	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 16:06	1
Zinc	0.0047	J	0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 16:06	1
Iron	2.9		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 16:06	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:06	1
Potassium	100		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 16:06	1
Magnesium	61		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 16:06	1
Manganese	0.14		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 16:06	1
Molybdenum	0.0090		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 16:06	1
Sodium	2300		5.0	3.5	mg/L		09/28/19 06:32	10/04/19 13:58	10
Strontium	7.4		0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 16:06	1
Titanium	0.0029	J	0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 16:06	1
Vanadium	0.0018		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 16:06	1
SiO2, Silica	11		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 16:06	1
Lithium	0.038		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 16:06	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:26	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1900		0.67	0.022	mg/L			10/08/19 11:47	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 7D-GS

Lab Sample ID: 180-96077-3

Date Collected: 09/23/19 11:20

Matrix: Water

Date Received: 09/24/19 09:45

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	1600		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	250		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	5.8	B	5.1	1.4	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	5.4		1.0	0.50	mg/L		10/01/19 06:45	10/01/19 13:16	5
Total Kjeldahl Nitrogen	4.5		0.20	0.15	mg/L		10/02/19 19:49	10/03/19 10:15	1
Nitrate Nitrite as N	0.027	J	0.050	0.020	mg/L			09/29/19 14:26	1
Alkalinity, Total	300		5.0	0.79	mg/L			10/05/19 00:43	1
Alkalinity, Bicarbonate	300		5.0	0.79	mg/L			10/05/19 00:43	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 00:43	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 00:43	1
Total Dissolved Solids	5900	H	100	40	mg/L			10/02/19 11:52	1
Total Suspended Solids	9.2		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	7.5		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.9	HF	0.1	0.1	SU			09/30/19 21:13	1
Temperature	18.6	HF	0.001	0.001	Degrees C			09/30/19 21:13	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	3.0		1.0	0.51	mg/L			10/10/19 18:21	1

Client Sample ID: 6S-GS

Lab Sample ID: 180-96077-4

Date Collected: 09/23/19 14:14

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	2300	J	5000	1800	ug/L			09/25/19 19:50	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/24/19 15:01	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/24/19 15:01	25
Fluoride	<0.66		2.5	0.66	mg/L			09/24/19 15:01	25
Chloride	4500		250	180	mg/L			09/24/19 15:16	250
Bromide	15		13	2.2	mg/L			09/24/19 15:01	25
Sulfate	480		25	9.5	mg/L			09/24/19 15:01	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/24/19 15:01	25

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00085	J	0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 16:10	1
Aluminum	0.069		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 16:10	1
Arsenic	1.6		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 16:10	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:10	1
Boron	17		0.80	0.39	mg/L		09/28/19 06:32	10/05/19 17:31	10
Cadmium	0.0011		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:10	1
Barium	0.78		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 16:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 16:10	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: 6S-GS

Lab Sample ID: 180-96077-4

Date Collected: 09/23/19 14:14

Matrix: Water

Date Received: 09/24/19 09:45

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 16:10	1
Calcium	530		0.50	0.13	mg/L		09/28/19 06:32	10/03/19 16:10	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:10	1
Nickel	0.0020		0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 16:10	1
Cobalt	0.00032	J	0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 16:10	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 16:10	1
Thallium	0.00021	J	0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 16:10	1
Zinc	0.0042	J	0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 16:10	1
Iron	0.49		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 16:10	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:10	1
Potassium	120		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 16:10	1
Magnesium	32		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 16:10	1
Manganese	0.17		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 16:10	1
Molybdenum	5.6		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 16:10	1
Sodium	1800		5.0	3.5	mg/L		09/28/19 06:32	10/04/19 14:01	10
Strontium	7.0		0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 16:10	1
Titanium	0.0033	J	0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 16:10	1
Vanadium	0.0018		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 16:10	1
SiO2, Silica	6.1		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 16:10	1
Lithium	0.29		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 16:10	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:27	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1500		0.67	0.022	mg/L			10/08/19 11:47	1
Calcium hardness as calcium carbonate	1300		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	130		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	1.6	J B	5.2	1.5	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	4.9	B	1.0	0.50	mg/L		10/01/19 06:45	10/01/19 13:33	5
Total Kjeldahl Nitrogen	3.2		0.20	0.15	mg/L		10/03/19 18:05	10/06/19 14:05	1
Nitrate Nitrite as N	0.067		0.050	0.020	mg/L			09/29/19 14:27	1
Alkalinity, Total	73		5.0	0.79	mg/L			10/05/19 01:25	1
Alkalinity, Bicarbonate	73		5.0	0.79	mg/L			10/05/19 01:25	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:25	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 01:25	1
Total Dissolved Solids	5000	H	100	40	mg/L			10/02/19 11:52	1
Total Suspended Solids	1.3		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	1.2		0.10	0.10	mg/L			10/21/19 13:52	1
pH	8.1	HF	0.1	0.1	SU			09/30/19 21:16	1
Temperature	18.4	HF	0.001	0.001	Degrees C			09/30/19 21:16	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	1.4		1.0	0.51	mg/L			10/10/19 18:36	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: FB-02

Lab Sample ID: 180-96077-5

Date Collected: 09/23/19 08:50

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 19:59	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/24/19 16:00	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/24/19 16:00	1
Fluoride	<0.026		0.10	0.026	mg/L			09/24/19 16:00	1
Chloride	<0.71		1.0	0.71	mg/L			09/24/19 16:00	1
Bromide	<0.087		0.50	0.087	mg/L			09/24/19 16:00	1
Sulfate	<0.38		1.0	0.38	mg/L			09/24/19 16:00	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/24/19 16:00	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 16:13	1
Aluminum	<0.013		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 16:13	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 16:13	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:13	1
Boron	0.079	J	0.080	0.039	mg/L		09/28/19 06:32	10/05/19 17:35	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:13	1
Barium	<0.0016		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 16:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 16:13	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 16:13	1
Calcium	0.15	J	0.50	0.13	mg/L		09/28/19 06:32	10/03/19 16:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:13	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 16:13	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 16:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 16:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 16:13	1
Zinc	0.0037	J	0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 16:13	1
Iron	<0.020		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 16:13	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:13	1
Potassium	<0.16		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 16:13	1
Magnesium	<0.083		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 16:13	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 16:13	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 16:13	1
Sodium	0.38	J	0.50	0.35	mg/L		09/28/19 06:32	10/04/19 14:04	1
Strontium	0.0013	J	0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 16:13	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 16:13	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 16:13	1
SiO2, Silica	<0.28		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 16:13	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 16:13	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:28	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	0.38	J	0.67	0.022	mg/L			10/08/19 11:47	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: FB-02

Lab Sample ID: 180-96077-5

Date Collected: 09/23/19 08:50

Matrix: Water

Date Received: 09/24/19 09:45

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	0.38		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	<0.0048		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.0	J B	5.2	1.5	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	0.53	B	0.20	0.10	mg/L		10/01/19 06:45	10/01/19 13:07	1
Total Kjeldahl Nitrogen	0.17	J	0.20	0.15	mg/L		10/03/19 18:05	10/06/19 14:05	1
Nitrate Nitrite as N	0.024	J	0.050	0.020	mg/L			09/29/19 14:29	1
Alkalinity, Total	<0.79		5.0	0.79	mg/L			10/05/19 01:12	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:12	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:12	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 01:12	1
Total Dissolved Solids	160		10	4.0	mg/L			09/27/19 09:27	1
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	2.1		0.10	0.10	mg/L			10/21/19 13:52	1
pH	5.9	HF	0.1	0.1	SU			09/30/19 21:19	1
Temperature	18.5	HF	0.001	0.001	Degrees C			09/30/19 21:19	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/10/19 18:50	1

Client Sample ID: EB-02

Lab Sample ID: 180-96077-6

Date Collected: 09/23/19 09:06

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 20:08	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/24/19 16:45	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/24/19 16:45	1
Fluoride	<0.026		0.10	0.026	mg/L			09/24/19 16:45	1
Chloride	<0.71		1.0	0.71	mg/L			09/24/19 16:45	1
Bromide	<0.087		0.50	0.087	mg/L			09/24/19 16:45	1
Sulfate	<0.38		1.0	0.38	mg/L			09/24/19 16:45	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/24/19 16:45	1

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 16:16	1
Aluminum	<0.013		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 16:16	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 16:16	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:16	1
Boron	<0.039		0.080	0.039	mg/L		09/28/19 06:32	10/04/19 14:15	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:16	1
Barium	<0.0016		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 16:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 16:16	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: EB-02
Date Collected: 09/23/19 09:06
Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-6
Matrix: Water

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 16:16	1
Calcium	0.18	J	0.50	0.13	mg/L		09/28/19 06:32	10/03/19 16:16	1
Lead	0.00014	J	0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:16	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 16:16	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 16:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 16:16	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 16:16	1
Zinc	0.0054		0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 16:16	1
Iron	<0.020		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 16:16	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:16	1
Potassium	<0.16		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 16:16	1
Magnesium	<0.083		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 16:16	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 16:16	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 16:16	1
Sodium	<0.35		0.50	0.35	mg/L		09/28/19 06:32	10/04/19 14:15	1
Strontium	0.0010	J	0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 16:16	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 16:16	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 16:16	1
SiO2, Silica	<0.28		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 16:16	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 16:16	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:29	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	0.46	J	0.67	0.022	mg/L			10/08/19 11:47	1
Calcium hardness as calcium carbonate	0.46		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	<0.0048		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.9	J B	5.2	1.5	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	14	B	2.0	1.0	mg/L		10/01/19 06:45	10/01/19 13:34	10
Total Kjeldahl Nitrogen	0.24		0.20	0.15	mg/L		10/03/19 18:05	10/06/19 14:05	1
Nitrate Nitrite as N	0.027	J	0.050	0.020	mg/L			09/29/19 14:30	1
Alkalinity, Total	<0.79		5.0	0.79	mg/L			10/05/19 01:36	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:36	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:36	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 01:36	1
Total Dissolved Solids	140		10	4.0	mg/L			09/27/19 09:27	1
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	2.1		0.10	0.10	mg/L			10/21/19 13:52	1
pH	5.7	HF	0.1	0.1	SU			09/30/19 21:22	1
Temperature	18.8	HF	0.001	0.001	Degrees C			09/30/19 21:22	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/10/19 19:34	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: DUP-03

Lab Sample ID: 180-96077-7

Date Collected: 09/23/19 07:00

Matrix: Water

Date Received: 09/24/19 09:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	9200		5000	1800	ug/L			09/25/19 20:16	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.58		2.5	0.58	mg/L			09/24/19 15:31	25
Nitrite as N	<0.72		1.3	0.72	mg/L			09/24/19 15:31	25
Fluoride	<0.66		2.5	0.66	mg/L			09/24/19 15:31	25
Chloride	4900		250	180	mg/L			09/24/19 15:46	250
Bromide	17		13	2.2	mg/L			09/24/19 15:31	25
Sulfate	820		25	9.5	mg/L			09/24/19 15:31	25
Orthophosphate as P	<1.6		13	1.6	mg/L			09/24/19 15:31	25

Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 16:20	1
Aluminum	0.030		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 16:20	1
Arsenic	0.0025		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 16:20	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:20	1
Boron	19		0.80	0.39	mg/L		09/28/19 06:32	10/04/19 14:18	10
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:20	1
Barium	0.24		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 16:20	1
Chromium	0.0023		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 16:20	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 16:20	1
Calcium	670		0.50	0.13	mg/L		09/28/19 06:32	10/03/19 16:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 16:20	1
Nickel	0.00056	J	0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 16:20	1
Cobalt	0.00039	J	0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 16:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 16:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 16:20	1
Zinc	0.0039	J	0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 16:20	1
Iron	3.0		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 16:20	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 16:20	1
Potassium	100		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 16:20	1
Magnesium	63		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 16:20	1
Manganese	0.14		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 16:20	1
Molybdenum	0.0094		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 16:20	1
Sodium	2400		5.0	3.5	mg/L		09/28/19 06:32	10/04/19 14:18	10
Strontium	7.7		0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 16:20	1
Titanium	0.0028	J	0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 16:20	1
Vanadium	0.0018		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 16:20	1
SiO2, Silica	11		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 16:20	1
Lithium	0.039		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 16:20	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:33	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	1900		0.67	0.022	mg/L			10/08/19 11:47	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Client Sample ID: DUP-03
Date Collected: 09/23/19 07:00
Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-7
Matrix: Water

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium hardness as calcium carbonate	1700		0.25	0.0071	mg/L			10/08/19 11:47	1
Magnesium hardness as calcium carbonate	260		0.41	0.0048	mg/L			10/08/19 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	1.8	J B	5.2	1.5	mg/L		09/30/19 11:52	09/30/19 13:45	1
Ammonia	6.2	B	1.0	0.50	mg/L		10/01/19 06:45	10/01/19 13:34	5
Total Kjeldahl Nitrogen	4.5	B	0.20	0.15	mg/L		10/03/19 18:05	10/06/19 12:23	1
Nitrate Nitrite as N	0.031	J	0.050	0.020	mg/L			09/29/19 14:31	1
Alkalinity, Total	300		5.0	0.79	mg/L			10/05/19 01:44	1
Alkalinity, Bicarbonate	300		5.0	0.79	mg/L			10/05/19 01:44	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:44	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 01:44	1
Total Dissolved Solids	8300	H	100	40	mg/L			10/02/19 11:52	1
Total Suspended Solids	8.8		0.50	0.50	mg/L			09/25/19 15:26	1
Carbon Dioxide, Free	6.5		0.10	0.10	mg/L			10/21/19 13:52	1
pH	7.9	HF	0.1	0.1	SU			09/30/19 21:25	1
Temperature	19.2	HF	0.001	0.001	Degrees C			09/30/19 21:25	1
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1
Total Organic Carbon - Duplicates	3.1		1.0	0.51	mg/L			10/10/19 19:49	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 200-147746/4
Matrix: Water
Analysis Batch: 147746

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	<1800		5000	1800	ug/L			09/25/19 18:32	1

Lab Sample ID: LCS 200-147746/2
Matrix: Water
Analysis Batch: 147746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	40000	44500		ug/L		111	70 - 130

Lab Sample ID: LCSD 200-147746/3
Matrix: Water
Analysis Batch: 147746

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
Carbon dioxide	40000	46700		ug/L		117	70 - 130	5	30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-292385/6
Matrix: Water
Analysis Batch: 292385

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.023		0.10	0.023	mg/L			09/24/19 09:50	1
Nitrite as N	<0.029		0.050	0.029	mg/L			09/24/19 09:50	1
Fluoride	<0.026		0.10	0.026	mg/L			09/24/19 09:50	1
Chloride	<0.71		1.0	0.71	mg/L			09/24/19 09:50	1
Bromide	<0.087		0.50	0.087	mg/L			09/24/19 09:50	1
Sulfate	<0.38		1.0	0.38	mg/L			09/24/19 09:50	1
Orthophosphate as P	<0.062		0.50	0.062	mg/L			09/24/19 09:50	1

Lab Sample ID: LCS 180-292385/5
Matrix: Water
Analysis Batch: 292385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.25	1.17		mg/L		94	90 - 110
Nitrite as N	1.25	1.18		mg/L		95	90 - 110
Fluoride	1.25	1.25		mg/L		100	90 - 110
Chloride	25.0	24.9		mg/L		100	90 - 110
Bromide	5.00	4.72		mg/L		94	90 - 110
Sulfate	25.0	24.8		mg/L		99	90 - 110
Orthophosphate as P	1.25	1.23		mg/L		98	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-293045/1-A
Matrix: Water
Analysis Batch: 293749

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00038		0.0020	0.00038	mg/L		09/28/19 06:32	10/03/19 15:26	1
Aluminum	<0.013		0.030	0.013	mg/L		09/28/19 06:32	10/03/19 15:26	1
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/28/19 06:32	10/03/19 15:26	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 15:26	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 15:26	1
Barium	<0.0016		0.010	0.0016	mg/L		09/28/19 06:32	10/03/19 15:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/19 06:32	10/03/19 15:26	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/28/19 06:32	10/03/19 15:26	1
Calcium	<0.13		0.50	0.13	mg/L		09/28/19 06:32	10/03/19 15:26	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/19 06:32	10/03/19 15:26	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/28/19 06:32	10/03/19 15:26	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/28/19 06:32	10/03/19 15:26	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/19 06:32	10/03/19 15:26	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/19 06:32	10/03/19 15:26	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/28/19 06:32	10/03/19 15:26	1
Iron	<0.020		0.050	0.020	mg/L		09/28/19 06:32	10/03/19 15:26	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/28/19 06:32	10/03/19 15:26	1
Potassium	<0.16		0.50	0.16	mg/L		09/28/19 06:32	10/03/19 15:26	1
Magnesium	<0.083		0.50	0.083	mg/L		09/28/19 06:32	10/03/19 15:26	1
Manganese	<0.0014		0.0050	0.0014	mg/L		09/28/19 06:32	10/03/19 15:26	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/28/19 06:32	10/03/19 15:26	1
Strontium	<0.00076		0.0050	0.00076	mg/L		09/28/19 06:32	10/03/19 15:26	1
Titanium	<0.0025		0.0050	0.0025	mg/L		09/28/19 06:32	10/03/19 15:26	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/28/19 06:32	10/03/19 15:26	1
SiO2, Silica	<0.28		1.1	0.28	mg/L		09/28/19 06:32	10/03/19 15:26	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/19 06:32	10/03/19 15:26	1

Lab Sample ID: MB 180-293045/1-A
Matrix: Water
Analysis Batch: 293883

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sodium	<0.35		0.50	0.35	mg/L		09/28/19 06:32	10/04/19 13:21	1

Lab Sample ID: MB 180-293045/1-A
Matrix: Water
Analysis Batch: 293908

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.039		0.080	0.039	mg/L		09/28/19 06:32	10/05/19 16:51	1

Lab Sample ID: LCS 180-293045/2-A
Matrix: Water
Analysis Batch: 293749

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5.00	5.06		mg/L		101	80 - 120
Arsenic	1.00	1.02		mg/L		102	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: EPA 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-293045/2-A
Matrix: Water
Analysis Batch: 293749

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.500	0.499		mg/L		100	80 - 120
Cadmium	0.500	0.515		mg/L		103	80 - 120
Barium	1.00	1.06		mg/L		106	80 - 120
Chromium	0.500	0.514		mg/L		103	80 - 120
Copper	0.500	0.516		mg/L		103	80 - 120
Calcium	25.0	26.4		mg/L		106	80 - 120
Lead	0.500	0.512		mg/L		102	80 - 120
Nickel	0.500	0.519		mg/L		104	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	0.995		mg/L		99	80 - 120
Zinc	0.250	0.276		mg/L		111	80 - 120
Iron	5.00	5.26		mg/L		105	80 - 120
Silver	0.250	0.265		mg/L		106	80 - 120
Potassium	25.0	25.4		mg/L		102	80 - 120
Magnesium	25.0	26.3		mg/L		105	80 - 120
Manganese	0.500	0.491		mg/L		98	80 - 120
Molybdenum	0.500	0.510		mg/L		102	80 - 120
Strontium	0.500	0.501		mg/L		100	80 - 120
Titanium	0.500	0.504		mg/L		101	80 - 120
Vanadium	0.500	0.514		mg/L		103	80 - 120
SiO2, Silica	2.14	1.99		mg/L		93	80 - 120
Lithium	0.500	0.492		mg/L		98	80 - 120

Lab Sample ID: LCS 180-293045/2-A
Matrix: Water
Analysis Batch: 293883

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	25.0	26.7		mg/L		107	80 - 120

Lab Sample ID: LCS 180-293045/2-A
Matrix: Water
Analysis Batch: 293908

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 293045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.41		mg/L		113	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-293944/1-A
Matrix: Water
Analysis Batch: 294165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/07/19 07:19	10/08/19 12:21	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-293944/2-A
Matrix: Water
Analysis Batch: 294165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293944
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00244		mg/L		98	80 - 120

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-494943/1-A
Matrix: Water
Analysis Batch: 494980

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	3.10	J	5.0	1.4	mg/L		09/30/19 11:52	09/30/19 13:45	1

Lab Sample ID: LCS 480-494943/2-A
Matrix: Water
Analysis Batch: 494980

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494943
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Oil & Grease	40.0	32.10		mg/L		80	78 - 114

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-495150/1-A
Matrix: Water
Analysis Batch: 495213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.166	J	0.20	0.10	mg/L		10/01/19 06:45	10/01/19 12:51	1

Lab Sample ID: LCS 480-495150/2-A
Matrix: Water
Analysis Batch: 495213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495150
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Ammonia	1.00	0.997		mg/L		100	90 - 110

Lab Sample ID: 180-96077-7 MS
Matrix: Water
Analysis Batch: 495217

Client Sample ID: DUP-03
Prep Type: Total/NA
Prep Batch: 495150
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Ammonia	6.2	B	0.500	6.50	4	mg/L		70	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-495571/1-A
Matrix: Water
Analysis Batch: 495816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		10/02/19 19:49	10/03/19 09:02	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 480-495571/2-A
Matrix: Water
Analysis Batch: 495816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.33		mg/L		93	90 - 110

Lab Sample ID: MB 480-495837/1-A
Matrix: Water
Analysis Batch: 496240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	0.179	J	0.20	0.15	mg/L		10/03/19 18:05	10/06/19 08:55	1

Lab Sample ID: LCS 480-495837/2-A
Matrix: Water
Analysis Batch: 496240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.48		mg/L		99	90 - 110

Lab Sample ID: MB 480-495838/1-A
Matrix: Water
Analysis Batch: 496240

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 495838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<0.15		0.20	0.15	mg/L		10/03/19 18:05	10/06/19 09:00	1

Lab Sample ID: LCS 480-495838/2-A
Matrix: Water
Analysis Batch: 496240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 495838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	2.50	2.51		mg/L		100	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 480-494814/4
Matrix: Water
Analysis Batch: 494814

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.020		0.050	0.020	mg/L			09/29/19 14:22	1

Lab Sample ID: MB 480-494814/76
Matrix: Water
Analysis Batch: 494814

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0243	J	0.050	0.020	mg/L			09/29/19 15:44	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 480-494814/5
Matrix: Water
Analysis Batch: 494814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.50	1.59		mg/L		106	90 - 110

Lab Sample ID: LCS 480-494814/77
Matrix: Water
Analysis Batch: 494814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.50	1.56		mg/L		104	90 - 110

Lab Sample ID: 180-96077-7 MS
Matrix: Water
Analysis Batch: 494814

Client Sample ID: DUP-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.031	J	1.00	1.03		mg/L		100	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-495181/7
Matrix: Water
Analysis Batch: 495181

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			09/30/19 20:58	1

Lab Sample ID: LCS 480-495181/8
Matrix: Water
Analysis Batch: 495181

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	92.0		mg/L		92	90 - 110

Lab Sample ID: MB 480-496193/29
Matrix: Water
Analysis Batch: 496193

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.79		5.0	0.79	mg/L			10/05/19 01:00	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:00	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/05/19 01:00	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/05/19 01:00	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 480-496193/6
Matrix: Water
Analysis Batch: 496193

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1
Alkalinity, Bicarbonate	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1
Alkalinity, Carbonate	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1
Hydroxide Alkalinity	<0.79		5.0	0.79	mg/L			10/04/19 22:22	1

Lab Sample ID: LCS 480-496193/30
Matrix: Water
Analysis Batch: 496193

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	93.6		mg/L		94	90 - 110

Lab Sample ID: LCS 480-496193/7
Matrix: Water
Analysis Batch: 496193

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	94.4		mg/L		94	90 - 110

Lab Sample ID: 180-96077-5 MS
Matrix: Water
Analysis Batch: 496193

Client Sample ID: FB-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	<0.79		100	82.0		mg/L		82	60 - 140

Lab Sample ID: 180-96077-4 DU
Matrix: Water
Analysis Batch: 496193

Client Sample ID: 6S-GS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	73		71.9		mg/L		0.9	20
Alkalinity, Bicarbonate	73		71.9		mg/L		0.9	20
Alkalinity, Carbonate	<0.79		<0.79		mg/L		NC	20
Hydroxide Alkalinity	<0.79		<0.79		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-494505/1
Matrix: Water
Analysis Batch: 494505

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	<4.0		10	4.0	mg/L			09/27/19 09:27	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 480-494505/2
Matrix: Water
Analysis Batch: 494505

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	500	476		mg/L		95	85 - 115

Lab Sample ID: MB 480-495439/1
Matrix: Water
Analysis Batch: 495439

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	<4.0		10	4.0	mg/L			10/02/19 11:52	1

Lab Sample ID: LCS 480-495439/2
Matrix: Water
Analysis Batch: 495439

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	500	473		mg/L		95	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 180-292659/2
Matrix: Water
Analysis Batch: 292659

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.50		0.50	0.50	mg/L			09/25/19 15:26	1

Lab Sample ID: LCS 180-292659/1
Matrix: Water
Analysis Batch: 292659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	82.3	90.0		mg/L		109	80 - 120

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-495182/1
Matrix: Water
Analysis Batch: 495182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-495438/51
Matrix: Water
Analysis Batch: 495438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	<0.0050		0.010	0.0050	mg/L			10/02/19 11:35	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Method: SM 4500 P E - Phosphorus (Continued)

Lab Sample ID: LCS 480-495438/52
Matrix: Water
Analysis Batch: 495438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.200	0.183		mg/L		91	90 - 110

Method: SM 5310C - Total Organic Carbon

Lab Sample ID: MB 180-294581/6
Matrix: Water
Analysis Batch: 294581

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/10/19 17:08	1

Lab Sample ID: LCS 180-294581/4
Matrix: Water
Analysis Batch: 294581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	20.0	19.0		mg/L		95	85 - 115

Lab Sample ID: LCSD 180-294581/5
Matrix: Water
Analysis Batch: 294581

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
Total Organic Carbon - Duplicates	20.0	19.1		mg/L		96	85 - 115	1	20

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

GC VOA

Analysis Batch: 147746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	RSK-175	
180-96077-2	5D-GS	Total/NA	Water	RSK-175	
180-96077-3	7D-GS	Total/NA	Water	RSK-175	
180-96077-4	6S-GS	Total/NA	Water	RSK-175	
180-96077-5	FB-02	Total/NA	Water	RSK-175	
180-96077-6	EB-02	Total/NA	Water	RSK-175	
180-96077-7	DUP-03	Total/NA	Water	RSK-175	
MB 200-147746/4	Method Blank	Total/NA	Water	RSK-175	
LCS 200-147746/2	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 200-147746/3	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 292385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-1	5S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-2	5D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-2	5D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-3	7D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-3	7D-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-4	6S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-4	6S-GS	Total/NA	Water	EPA 300.0 R2.1	
180-96077-5	FB-02	Total/NA	Water	EPA 300.0 R2.1	
180-96077-6	EB-02	Total/NA	Water	EPA 300.0 R2.1	
180-96077-7	DUP-03	Total/NA	Water	EPA 300.0 R2.1	
180-96077-7	DUP-03	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292385/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292385/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 293045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total Recoverable	Water	3005A	
180-96077-2	5D-GS	Total Recoverable	Water	3005A	
180-96077-3	7D-GS	Total Recoverable	Water	3005A	
180-96077-4	6S-GS	Total Recoverable	Water	3005A	
180-96077-5	FB-02	Total Recoverable	Water	3005A	
180-96077-6	EB-02	Total Recoverable	Water	3005A	
180-96077-7	DUP-03	Total Recoverable	Water	3005A	
MB 180-293045/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-293045/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 293749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-2	5D-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-3	7D-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-4	6S-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-5	FB-02	Total Recoverable	Water	EPA 6020	293045
180-96077-6	EB-02	Total Recoverable	Water	EPA 6020	293045

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Metals (Continued)

Analysis Batch: 293749 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-7	DUP-03	Total Recoverable	Water	EPA 6020	293045
MB 180-293045/1-A	Method Blank	Total Recoverable	Water	EPA 6020	293045
LCS 180-293045/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	293045

Analysis Batch: 293883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-2	5D-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-3	7D-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-4	6S-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-5	FB-02	Total Recoverable	Water	EPA 6020	293045
180-96077-6	EB-02	Total Recoverable	Water	EPA 6020	293045
180-96077-7	DUP-03	Total Recoverable	Water	EPA 6020	293045
MB 180-293045/1-A	Method Blank	Total Recoverable	Water	EPA 6020	293045
LCS 180-293045/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	293045

Analysis Batch: 293908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-2	5D-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-3	7D-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-4	6S-GS	Total Recoverable	Water	EPA 6020	293045
180-96077-5	FB-02	Total Recoverable	Water	EPA 6020	293045
MB 180-293045/1-A	Method Blank	Total Recoverable	Water	EPA 6020	293045
LCS 180-293045/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	293045

Prep Batch: 293944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	7470A	
180-96077-2	5D-GS	Total/NA	Water	7470A	
180-96077-3	7D-GS	Total/NA	Water	7470A	
180-96077-4	6S-GS	Total/NA	Water	7470A	
180-96077-5	FB-02	Total/NA	Water	7470A	
180-96077-6	EB-02	Total/NA	Water	7470A	
180-96077-7	DUP-03	Total/NA	Water	7470A	
MB 180-293944/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293944/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 294117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total Recoverable	Water	SM 2340B	
180-96077-2	5D-GS	Total Recoverable	Water	SM 2340B	
180-96077-3	7D-GS	Total Recoverable	Water	SM 2340B	
180-96077-4	6S-GS	Total Recoverable	Water	SM 2340B	
180-96077-5	FB-02	Total Recoverable	Water	SM 2340B	
180-96077-6	EB-02	Total Recoverable	Water	SM 2340B	
180-96077-7	DUP-03	Total Recoverable	Water	SM 2340B	

Analysis Batch: 294165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	EPA 7470A	293944

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

Metals (Continued)

Analysis Batch: 294165 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-2	5D-GS	Total/NA	Water	EPA 7470A	293944
180-96077-3	7D-GS	Total/NA	Water	EPA 7470A	293944
180-96077-4	6S-GS	Total/NA	Water	EPA 7470A	293944
180-96077-5	FB-02	Total/NA	Water	EPA 7470A	293944
180-96077-6	EB-02	Total/NA	Water	EPA 7470A	293944
180-96077-7	DUP-03	Total/NA	Water	EPA 7470A	293944
MB 180-293944/1-A	Method Blank	Total/NA	Water	EPA 7470A	293944
LCS 180-293944/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293944

General Chemistry

Analysis Batch: 292659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 2540D	
180-96077-2	5D-GS	Total/NA	Water	SM 2540D	
180-96077-3	7D-GS	Total/NA	Water	SM 2540D	
180-96077-4	6S-GS	Total/NA	Water	SM 2540D	
180-96077-5	FB-02	Total/NA	Water	SM 2540D	
180-96077-6	EB-02	Total/NA	Water	SM 2540D	
180-96077-7	DUP-03	Total/NA	Water	SM 2540D	
MB 180-292659/2	Method Blank	Total/NA	Water	SM 2540D	
LCS 180-292659/1	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 294581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 5310C	
180-96077-2	5D-GS	Total/NA	Water	SM 5310C	
180-96077-3	7D-GS	Total/NA	Water	SM 5310C	
180-96077-4	6S-GS	Total/NA	Water	SM 5310C	
180-96077-5	FB-02	Total/NA	Water	SM 5310C	
180-96077-6	EB-02	Total/NA	Water	SM 5310C	
180-96077-7	DUP-03	Total/NA	Water	SM 5310C	
MB 180-294581/6	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-294581/4	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-294581/5	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 494505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-5	FB-02	Total/NA	Water	SM 2540C	
180-96077-6	EB-02	Total/NA	Water	SM 2540C	
MB 480-494505/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-494505/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 494814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	353.2	
180-96077-2	5D-GS	Total/NA	Water	353.2	
180-96077-3	7D-GS	Total/NA	Water	353.2	
180-96077-4	6S-GS	Total/NA	Water	353.2	
180-96077-5	FB-02	Total/NA	Water	353.2	
180-96077-6	EB-02	Total/NA	Water	353.2	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

General Chemistry (Continued)

Analysis Batch: 494814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-7	DUP-03	Total/NA	Water	353.2	
MB 480-494814/4	Method Blank	Total/NA	Water	353.2	
MB 480-494814/76	Method Blank	Total/NA	Water	353.2	
LCS 480-494814/5	Lab Control Sample	Total/NA	Water	353.2	
LCS 480-494814/77	Lab Control Sample	Total/NA	Water	353.2	
180-96077-7 MS	DUP-03	Total/NA	Water	353.2	

Prep Batch: 494943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	1664B	
180-96077-2	5D-GS	Total/NA	Water	1664B	
180-96077-3	7D-GS	Total/NA	Water	1664B	
180-96077-4	6S-GS	Total/NA	Water	1664B	
180-96077-5	FB-02	Total/NA	Water	1664B	
180-96077-6	EB-02	Total/NA	Water	1664B	
180-96077-7	DUP-03	Total/NA	Water	1664B	
MB 480-494943/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-494943/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 494980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	1664B	494943
180-96077-2	5D-GS	Total/NA	Water	1664B	494943
180-96077-3	7D-GS	Total/NA	Water	1664B	494943
180-96077-4	6S-GS	Total/NA	Water	1664B	494943
180-96077-5	FB-02	Total/NA	Water	1664B	494943
180-96077-6	EB-02	Total/NA	Water	1664B	494943
180-96077-7	DUP-03	Total/NA	Water	1664B	494943
MB 480-494943/1-A	Method Blank	Total/NA	Water	1664B	494943
LCS 480-494943/2-A	Lab Control Sample	Total/NA	Water	1664B	494943

Prep Batch: 495150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	Distill/Ammonia	
180-96077-2	5D-GS	Total/NA	Water	Distill/Ammonia	
180-96077-3	7D-GS	Total/NA	Water	Distill/Ammonia	
180-96077-4	6S-GS	Total/NA	Water	Distill/Ammonia	
180-96077-5	FB-02	Total/NA	Water	Distill/Ammonia	
180-96077-6	EB-02	Total/NA	Water	Distill/Ammonia	
180-96077-7	DUP-03	Total/NA	Water	Distill/Ammonia	
MB 480-495150/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-495150/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
180-96077-7 MS	DUP-03	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 495181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 2320B	
MB 480-495181/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-495181/8	Lab Control Sample	Total/NA	Water	SM 2320B	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

General Chemistry

Analysis Batch: 495182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 4500 H+ B	
180-96077-2	5D-GS	Total/NA	Water	SM 4500 H+ B	
180-96077-3	7D-GS	Total/NA	Water	SM 4500 H+ B	
180-96077-4	6S-GS	Total/NA	Water	SM 4500 H+ B	
180-96077-5	FB-02	Total/NA	Water	SM 4500 H+ B	
180-96077-6	EB-02	Total/NA	Water	SM 4500 H+ B	
180-96077-7	DUP-03	Total/NA	Water	SM 4500 H+ B	
LCS 480-495182/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 495213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	350.1	495150
180-96077-3	7D-GS	Total/NA	Water	350.1	495150
180-96077-5	FB-02	Total/NA	Water	350.1	495150
MB 480-495150/1-A	Method Blank	Total/NA	Water	350.1	495150
LCS 480-495150/2-A	Lab Control Sample	Total/NA	Water	350.1	495150

Analysis Batch: 495217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-2	5D-GS	Total/NA	Water	350.1	495150
180-96077-4	6S-GS	Total/NA	Water	350.1	495150
180-96077-6	EB-02	Total/NA	Water	350.1	495150
180-96077-7	DUP-03	Total/NA	Water	350.1	495150
180-96077-7 MS	DUP-03	Total/NA	Water	350.1	495150

Analysis Batch: 495438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 4500 P E	
180-96077-2	5D-GS	Total/NA	Water	SM 4500 P E	
180-96077-3	7D-GS	Total/NA	Water	SM 4500 P E	
180-96077-4	6S-GS	Total/NA	Water	SM 4500 P E	
180-96077-5	FB-02	Total/NA	Water	SM 4500 P E	
180-96077-6	EB-02	Total/NA	Water	SM 4500 P E	
180-96077-7	DUP-03	Total/NA	Water	SM 4500 P E	
MB 480-495438/51	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-495438/52	Lab Control Sample	Total/NA	Water	SM 4500 P E	

Analysis Batch: 495439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 2540C	
180-96077-2	5D-GS	Total/NA	Water	SM 2540C	
180-96077-3	7D-GS	Total/NA	Water	SM 2540C	
180-96077-4	6S-GS	Total/NA	Water	SM 2540C	
180-96077-7	DUP-03	Total/NA	Water	SM 2540C	
MB 480-495439/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-495439/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Prep Batch: 495571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	351.2	
180-96077-2	5D-GS	Total/NA	Water	351.2	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

General Chemistry (Continued)

Prep Batch: 495571 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-3	7D-GS	Total/NA	Water	351.2	
MB 480-495571/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-495571/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 495816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	351.2	495571
180-96077-2	5D-GS	Total/NA	Water	351.2	495571
180-96077-3	7D-GS	Total/NA	Water	351.2	495571
MB 480-495571/1-A	Method Blank	Total/NA	Water	351.2	495571
LCS 480-495571/2-A	Lab Control Sample	Total/NA	Water	351.2	495571

Prep Batch: 495837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-7	DUP-03	Total/NA	Water	351.2	
MB 480-495837/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-495837/2-A	Lab Control Sample	Total/NA	Water	351.2	

Prep Batch: 495838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-4	6S-GS	Total/NA	Water	351.2	
180-96077-5	FB-02	Total/NA	Water	351.2	
180-96077-6	EB-02	Total/NA	Water	351.2	
MB 480-495838/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-495838/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 496193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-2	5D-GS	Total/NA	Water	SM 2320B	
180-96077-3	7D-GS	Total/NA	Water	SM 2320B	
180-96077-4	6S-GS	Total/NA	Water	SM 2320B	
180-96077-5	FB-02	Total/NA	Water	SM 2320B	
180-96077-6	EB-02	Total/NA	Water	SM 2320B	
180-96077-7	DUP-03	Total/NA	Water	SM 2320B	
MB 480-496193/29	Method Blank	Total/NA	Water	SM 2320B	
MB 480-496193/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-496193/30	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-496193/7	Lab Control Sample	Total/NA	Water	SM 2320B	
180-96077-5 MS	FB-02	Total/NA	Water	SM 2320B	
180-96077-4 DU	6S-GS	Total/NA	Water	SM 2320B	

Analysis Batch: 496240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-4	6S-GS	Total/NA	Water	351.2	495838
180-96077-5	FB-02	Total/NA	Water	351.2	495838
180-96077-6	EB-02	Total/NA	Water	351.2	495838
180-96077-7	DUP-03	Total/NA	Water	351.2	495837
MB 480-495837/1-A	Method Blank	Total/NA	Water	351.2	495837
MB 480-495838/1-A	Method Blank	Total/NA	Water	351.2	495838
LCS 480-495837/2-A	Lab Control Sample	Total/NA	Water	351.2	495837
LCS 480-495838/2-A	Lab Control Sample	Total/NA	Water	351.2	495838

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-1

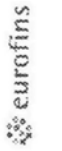
General Chemistry

Analysis Batch: 499249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	SM 4500 CO2 B	
180-96077-2	5D-GS	Total/NA	Water	SM 4500 CO2 B	
180-96077-3	7D-GS	Total/NA	Water	SM 4500 CO2 B	
180-96077-4	6S-GS	Total/NA	Water	SM 4500 CO2 B	
180-96077-5	FB-02	Total/NA	Water	SM 4500 CO2 B	
180-96077-6	EB-02	Total/NA	Water	SM 4500 CO2 B	
180-96077-7	DUP-03	Total/NA	Water	SM 4500 CO2 B	



Chain of Custody Record



Environmental Testing
TestAmerica

Client Information Client Contact: Ms. Lauren Petty Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-5417(Tel) Email: Impetty@southernco.com Project Name: CCR - Plant Watson Special AP Site:		Sampler: <i>Lyric Hayden / Braddeca</i> Lab PM: Bortol, Veronica Phone: 850-336-0192 E-Mail: veronica.bortol@lestamericainc.com		Carrier Tracking No(s): COC No: 180-54585-11376.3 Page: Page 3 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 18020186 SSO#:		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Total Number of Containers:			
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)			
Sample Identification Sample ID: <i>5S-GS, 5D-GS, 7D-GS, 6S-GS, FB-02, EB-02, DW-03</i> Sample Date: <i>9-23-19</i> Sample Time: <i>1000, 1220, 1120, 1414, 0850, 0906, 0700</i> Sample Type (C=Comp, G=grab): <i>G</i> Matrix (W=water, S=solid, O=oil, BT=issue, A=air): <i>Water</i>		Preservation Code: Special Inst:			
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:		Method of Shipment:			
Relinquished by: <i>[Signature]</i> Date/Time: <i>9-23-19 1600</i>		Received by: <i>Dillon Watson</i> Date/Time: <i>9-29-19</i>			
Relinquished by: <i>[Signature]</i> Date/Time:		Received by: <i>[Signature]</i> Date/Time: <i>8.9.19</i>			
Relinquished by: <i>[Signature]</i> Date/Time:		Received by: <i>[Signature]</i> Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:			



ORIGIN ID: BIXA (850) 336-0192
RICK HAYENDORFOR
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238
REF: (416) 968-7066
POLY

DEPT:



3 of 4
TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

MPS# 7800 0195 0355
0263
Mstr# 7800 0195 0333

XH AGCA

15238
PA-US
PIT



Courier or Driver: **97** Barcoded Label Here

10:30 A
0355
09.24

Per # 156297-295040542 12/19

SHIP DATE: 23SEP19
ACTWT: 57.00 LB
CAD: 6993799/SSFE2021
DIMS: 23x13x13 IN
BILL THIRD PARTY

ORIGIN ID: BIXA (850) 336-0192
RICK HAYENDORFOR
301 ALPHA DR
PITTSBURGH, PA 15238

SHIP DATE: 23SEP19
ACTWT: 61.00 LB
CAD: 6993799/SSFE2021
DIMS: 23x13x13 IN
BILL THIRD PARTY



180-96077 Waybill

PITTSBURGH PA 15238
REF: (416) 968-7066
POLY

DEPT:



4 of 4
TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

MPS# 7800 0195 0366
0263
Mstr# 7800 0195 0333

XH AGCA

15238
PA-US
PIT



Courier or Driver: **0** Barcoded Label Here

Do Not Lift Heavy This Tape

1
2
3
4
5
6
7
8
9
10
11
12
13

Do Not Lift Using This Tag

Part # 156297-3 56711/9B04/05A2 12/19

SHIP DATE: 23SEP19
ACTWGT: 87.00 LB
CAD: 6993799/5SFE2021
DIMS: 23x13x13 IN
BILL THIRD PARTY

ORIGIN ID:BIWA (850) 336-0192
RICK HAYENDORFOR
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (416) 969-7068
INU: PO:

DEPT:

FedEx Express



TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

1 of 4
TRK# 7800 0195 0333
MASTER

XH AGCA

15238
PA-US
PIT

°C

1.5 / 10

Uncorrected temp
Thermometer ID

CF Initials BS

PT-WI-SR-001 effective 11/8/18



1 10:30 A
0333
09.24

RT 97

FZ

ORIGIN ID:BIWA (850) 336-0192
RICK HAYENDORFOR
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

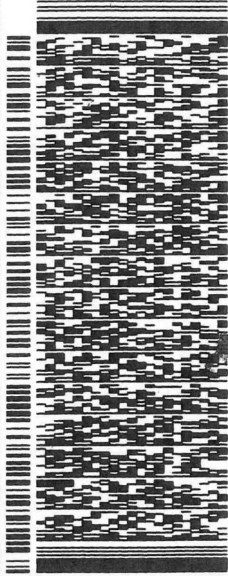
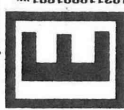
TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (416) 969-7068
INU: PO:

DEPT:

FedEx Express



TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

2 of 4
MPS# 7800 0195 0344
Mstr# 7800 0195 0333

0201

XH AGCA

15238
PA-US
PIT

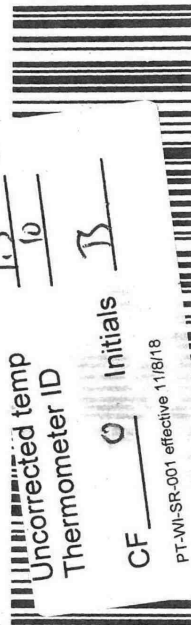
°C

1.5 / 10

Uncorrected temp
Thermometer ID

CF Initials BS

PT-WI-SR-001 effective 11/8/18



Courier or Driver: Place Astra or Barcoded Label Here

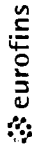
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



Client Information (Sub Contract Lab)		Lab PI: Bortol, Veronica	Carrier Tracking No(s): 180-374302.1								
Client Contact: Shipping/Receiving		Phone: E-Mail: veronica.bortol@testamericainc.com	Page: 180-374302.1								
Company: TestAmerica Laboratories, Inc.		State of Origin: (Georgia)	Job #: 180-96077-1								
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045		Accreditations Required (See 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:								
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Due Date Requested: 10/4/2019	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)								
Email:		TAT Requested (days):									
Project Name: CCR - Plant Watson		PO #:									
Site:		WO #:									
		Project #: 18020186									
		SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, BT=ETISSUE, A=AIR)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PreCsep_21 Radium 226	9320_Ra228/PreCsep_0 Radium 228	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
5S-GS (180-96077-1)	9/23/19	10:00 Eastern	Water	Water	X	X	X	X	X	2	
5D-GS (180-96077-2)	9/23/19	12:20 Eastern	Water	Water	X	X	X	X	X	2	
7D-GS (180-96077-3)	9/23/19	11:20 Eastern	Water	Water	X	X	X	X	X	2	
6S-GS (180-96077-4)	9/23/19	14:14 Eastern	Water	Water	X	X	X	X	X	2	
FB-02 (180-96077-5)	9/23/19	08:50 Eastern	Water	Water	X	X	X	X	X	2	
EB-02 (180-96077-6)	9/23/19	09:06 Eastern	Water	Water	X	X	X	X	X	2	
DUP-03 (180-96077-7)	9/23/19	07:00 Eastern	Water	Water	X	X	X	X	X	2	
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>											
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) _____</p> <p>Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: _____ Date/Time: 9/24/19 1:20</p> <p>Relinquished by: _____ Date/Time: _____</p> <p>Relinquished by: _____ Date/Time: _____</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Custody Seal No.: _____</p>											
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p>Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements: _____</p> <p>Method of Shipment: _____</p> <p>Received by: _____ Date/Time: 9-25-19 09:00</p> <p>Company: TASA</p> <p>Received by: _____ Date/Time: _____</p> <p>Company: _____</p> <p>Received by: _____ Date/Time: _____</p> <p>Company: _____</p> <p>Cooler Temperature(s) °C and Other Remarks: _____</p>											



Chain of Custody Record



180-96077 Chain of Custody

Client Information (Sub Contract Lab)		Lab PM: Bortot, Veronica	COG No: 180-374280-1																																																															
Client Contact: Shipping/Receiving		E-Mail: veronica.bortot@testamericainc.com	Page: Page 1 of 1																																																															
Company: TestAmerica Laboratories, Inc.		State of Origin: Georgia	Job #: 180-96077-1																																																															
Address: 30 Community Drive, Suite 11, South Burlington, VT, 05403		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:																																																																
Due Date Requested: 10/4/2019		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SSO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)																																																																
TAT Requested (days):		Analysis Requested																																																																
PO #:	WO #:	<table border="1"> <thead> <tr> <th>Sample ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=Grab)</th> <th>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, ASAP)</th> <th>Preservation Code</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>5S-GS (180-96077-1)</td> <td>9/23/19</td> <td>10:00 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>5D-GS (180-96077-2)</td> <td>9/23/19</td> <td>12:20 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>7D-GS (180-96077-3)</td> <td>9/23/19</td> <td>11:20 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>6S-GS (180-96077-4)</td> <td>9/23/19</td> <td>14:14 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>FB-02 (180-96077-5)</td> <td>9/23/19</td> <td>08:50 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>EB-02 (180-96077-6)</td> <td>9/23/19</td> <td>09:06 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td>DUP-03 (180-96077-7)</td> <td>9/23/19</td> <td>07:00 Eastern</td> <td></td> <td>Water</td> <td></td> <td></td> </tr> <tr> <td colspan="5"></td> <td>Total Number of containers</td> <td></td> </tr> </tbody> </table>		Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, ASAP)	Preservation Code	Special Instructions/Note:	5S-GS (180-96077-1)	9/23/19	10:00 Eastern		Water			5D-GS (180-96077-2)	9/23/19	12:20 Eastern		Water			7D-GS (180-96077-3)	9/23/19	11:20 Eastern		Water			6S-GS (180-96077-4)	9/23/19	14:14 Eastern		Water			FB-02 (180-96077-5)	9/23/19	08:50 Eastern		Water			EB-02 (180-96077-6)	9/23/19	09:06 Eastern		Water			DUP-03 (180-96077-7)	9/23/19	07:00 Eastern		Water								Total Number of containers	
Sample ID (Lab ID)	Sample Date			Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, ASAP)	Preservation Code	Special Instructions/Note:																																																										
5S-GS (180-96077-1)	9/23/19			10:00 Eastern		Water																																																												
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Project Name: CCR - Plant Watson	Project #: 18020186	Total Number of containers: 3																																																																
Site:	SSOW#:	Total Number of containers: 3																																																																
Email:		Total Number of containers: 3																																																																
Phone: 802-660-1990(Tel) 802-660-1919(Fax)		Total Number of containers: 3																																																																
State, Zip: VT, 05403		Total Number of containers: 3																																																																
City: South Burlington		Total Number of containers: 3																																																																
Address: 30 Community Drive, Suite 11,		Total Number of containers: 3																																																																
Company: TestAmerica Laboratories, Inc.		Total Number of containers: 3																																																																

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date/Time: 9/24/19 17:36 Company: JMB Company

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: **N/A** Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: 1.5

Received by: *Taylor Johnson* Date/Time: 9/25/19 19:00 Company: *JMB* Company

Received by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Special Instructions/QC Requirements: _____

Method of Shipment: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 10 Hazelwood Drive, Amherst, NY, 14228-2298 Phone: 716-691-2600(Tel) 716-691-7991(Fax) Email: [Redacted] Project Name: CCR - Plant Watson Site: [Redacted]		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Accreditations Required (See note):		Carrier Tracking No(s): 180-374278.1 State of Origin: Georgia Page: Page 1 of 1 Job #: 180-96077-1										
Due Date Requested: 10/4/2019 TAT Requested (days):		Analysis Requested												
PO #:	WO #:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350_1/Disstill_Ammonia (MOD) Local Method	353_2_Pres	1664B/1664B_P_W (MOD) Local Method	SM4500_CO2_B	351_2/351_2_Prep	SM4500_H+	2320B	2540C_Calcd	4500_P_E (MOD) Local Method	Total Number of Containers	Special Instructions/Note:
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=BIOSUR, AS=AS)	Preservation Code:	5S-GS (180-96077-1)	10:00 Eastern	Water						2	
9/23/19	12:20 Eastern		Water		5D-GS (180-96077-2)	9/23/19	Water						2	
9/23/19	11:20 Eastern		Water		7D-GS (180-96077-3)	9/23/19	Water						2	
9/23/19	14:14 Eastern		Water		6S-GS (180-96077-4)	9/23/19	Water						2	
9/23/19	08:50 Eastern		Water		FB-02 (180-96077-5)	9/23/19	Water						2	
9/23/19	09:06 Eastern		Water		EB-02 (180-96077-6)	9/23/19	Water						4	
9/23/19	07:00 Eastern		Water		DUP-03 (180-96077-7)	9/23/19	Water						4	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: [Signature]
Date: 9/24/19 17:20
Relinquished by: [Signature]
Date/Time: [Redacted]
Relinquished by: [Redacted]
Date/Time: [Redacted]

Received by: [Signature] Company: [Redacted]
Date/Time: 09/25/19 10:00 TA Company: [Redacted]
Received by: [Redacted] Company: [Redacted]
Date/Time: [Redacted] Company: [Redacted]

Cooler Temperature(s) °C and Other Remarks: 2.2 3.0 1.8 #/ICE

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:



Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 10 Hazelwood Drive, Amherst State, Zip: NY, 14228-2298 Phone: 716-691-2600(Tel) 716-691-7991(Fax) Email: Project Name: CCR - Plant Watson Site:		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Accreditations Required (See note):		Carmer Tracking No(s): 180-374279.1 State of Origin: Georgia Page: Page 1 of 1 Job #: 180-96077-1		COC No: 180-374279.1 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 - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Due Date Requested: 10/4/2019 TAT Requested (days):		Analysis Requested 350_1/Disill_Ammonia (MOD) Local Method 353_2_Pres 1664B/1664B_P_W (MOD) Local Method SM4500_CO2_B 351_2/351_2_Prep SM4500_H+ 2320B 2540C Calcd 4500_P_E/(MOD) Local Method Total Number of containers		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		Special Instructions/Note: 2 2 2 2 2	
Sample Identification - Client ID (Lab ID)		Sample Date 9/23/19 9/23/19 9/23/19 9/23/19 9/23/19		Sample Time 10:00 Eastern 12:20 Eastern 11:20 Eastern 14:14 Eastern 08:50 Eastern		Sample Type (C=Comp, G=grab) Matrix (Water, Sealed, On-waste, etc.) Preservation Code: Water Water Water Water Water	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis of the matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 9/24/19 17:20 Company: Blankow Nikolb
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: 2.2 3.0 1.8 #1 DOE
 Δ Yes Δ 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: _____ Date/Time: 09/25/19 16:00 Company: IA
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____
 Cooler Temperature(s) °C and Other Remarks: 2.2 3.0 1.8 #1 DOE



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96077-1

Login Number: 96077

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96077-1

Login Number: 96077
List Number: 4
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo
List Creation: 09/26/19 06:13 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	2.2 3.0 1.8 ir gun #1 ice
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96077-1

Login Number: 96077
List Number: 2
Creator: Mohn, Taylor J

List Source: Eurofins TestAmerica, Burlington
List Creation: 09/25/19 11:35 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	1.5°C
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?	N/A	Received project as a subcontract.
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.	N/A	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-96077-2
Laboratory Sample Delivery Group: 1
Client Project/Site: CCR - Plant Watson

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
11/7/2019 4:10:30 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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.

PA Lab ID: 02-00416



Table of Contents

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Sample Summary	8
Method Summary	9
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QC Sample Results	18
QC Association Summary	20
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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Job ID: 180-96077-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-96077-2

Comments

No additional comments.

Receipt

The samples were received on 9/24/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.5° C, 1.6° C, 1.8° C and 4.0° C.

RAD

Methods 903.0, 9315: Radium-226 Prep Batch 160-444304

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

5S-GS (180-96077-1), 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4), FB-02 (180-96077-5), EB-02 (180-96077-6), DUP-03 (180-96077-7), (LCS 160-444304/1-A), (LCSD 160-444304/2-A) and (MB 160-444304/21-A)

Methods 904.0, 9320: Radium-228 prep batch 160-444355

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

5S-GS (180-96077-1), FB-02 (180-96077-5), EB-02 (180-96077-6), (LCS 160-444355/1-A), (LCSD 160-444355/2-A) and (MB 160-444355/21-A)

Methods 904.0, 9320: Radium-228 Prep Batch 160-444355

The following batch 444355 has a failing LCS at 134% and LCSD at 133% (limits are 75%-125%). The spikes are failing, the MB and RPD/RER is within limits. The sample activity is below the MDC's. The data has been reported with this narrative.

5S-GS (180-96077-1), FB-02 (180-96077-5), EB-02 (180-96077-6), (LCS 160-444355/1-A), (LCSD 160-444355/2-A) and (MB 160-444355/21-A)

Methods 904.0, 9320: Radium-228 Prep Batch 160-447604

The detection goal was not met for the following samples due to insufficient sample available for analysis: (MB 160-447604/20-A), (400-176940-A-14-E) and (400-176940-A-14-F DU). Samples were reduced for re-prep; see Prep NCM 160-181450. Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium-228 prep batch 160-447604

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4), DUP-03 (180-96077-7), (LCS 160-447604/1-A), (MB 160-447604/20-A), (400-176940-A-14-E) and (400-176940-A-14-F DU)

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Job ID: 180-96077-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Method PrecSep_0: Radium 228 Prep Batch 160-444355:

The following samples had light discoloration: 5S-GS (180-96077-1), 5D-GS (180-96077-2) and 7D-GS (180-96077-3).

Method PrecSep_0: Radium 228 Prep Batch 160-444355:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 5S-GS (180-96077-1), 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4), FB-02 (180-96077-5), EB-02 (180-96077-6) and DUP-03 (180-96077-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-447604:

Due to insufficient volume, the following samples were prepared a reduced aliquot for re-prep: 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4) and DUP-03 (180-96077-7). Samples 180-96077-D-3 and 180-96077-C-7 had yellow discoloration.

Method PrecSep-21: Radium 226 Prep Batch 160-444304:

The following samples had light yellow discoloration: 5D-GS (180-96077-2), 7D-GS (180-96077-3) and DUP-03 (180-96077-7).

Method PrecSep-21: Radium 226 Prep Batch 160-444304:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 5S-GS (180-96077-1), 5D-GS (180-96077-2), 7D-GS (180-96077-3), 6S-GS (180-96077-4), FB-02 (180-96077-5), EB-02 (180-96077-6) and DUP-03 (180-96077-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Qualifiers

Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
 SDG: 1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
 SDG: 1

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19
Iowa	State	373	09-17-20
Iowa	State Program	373	12-01-20
Kansas	NELAP	E-10236	10-31-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
Washington	State Program	C592	08-30-20
West Virginia DEP	State	381	12-01-19
West Virginia DEP	State Program	381	12-31-19

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-96077-1	5S-GS	Water	09/23/19 10:00	09/24/19 09:45	
180-96077-2	5D-GS	Water	09/23/19 12:20	09/24/19 09:45	
180-96077-3	7D-GS	Water	09/23/19 11:20	09/24/19 09:45	
180-96077-4	6S-GS	Water	09/23/19 14:14	09/24/19 09:45	
180-96077-5	FB-02	Water	09/23/19 08:50	09/24/19 09:45	
180-96077-6	EB-02	Water	09/23/19 09:06	09/24/19 09:45	
180-96077-7	DUP-03	Water	09/23/19 07:00	09/24/19 09:45	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 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
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: 5S-GS

Lab Sample ID: 180-96077-1

Date Collected: 09/23/19 10:00

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.41 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:19	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.41 mL	1.0 g	444355	09/26/19 14:46	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 12:58	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 5D-GS

Lab Sample ID: 180-96077-2

Date Collected: 09/23/19 12:20

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.45 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:19	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.59 mL	1.0 g	447604	10/24/19 14:59	ORM	TAL SL
Total/NA	Analysis	9320		1			448459	10/31/19 09:13	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 7D-GS

Lab Sample ID: 180-96077-3

Date Collected: 09/23/19 11:20

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.23 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:19	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.68 mL	1.0 g	447604	10/24/19 14:59	ORM	TAL SL
Total/NA	Analysis	9320		1			448507	10/31/19 09:02	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: 6S-GS

Lab Sample ID: 180-96077-4

Date Collected: 09/23/19 14:14

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.07 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:19	KLS	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: 6S-GS

Date Collected: 09/23/19 14:14

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			750.54 mL	1.0 g	447604	10/24/19 14:59	ORM	TAL SL
Total/NA	Analysis	9320		1			448507	10/31/19 09:02	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-02

Date Collected: 09/23/19 08:50

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.64 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:20	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.64 mL	1.0 g	444355	09/26/19 14:46	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 12:59	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-02

Date Collected: 09/23/19 09:06

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.08 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:20	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.08 mL	1.0 g	444355	09/26/19 14:46	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 12:59	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03

Date Collected: 09/23/19 07:00

Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.38 mL	1.0 g	444304	09/26/19 13:12	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 17:20	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.16 mL	1.0 g	447604	10/24/19 14:59	ORM	TAL SL
Total/NA	Analysis	9320		1			448507	10/31/19 09:02	KLS	TAL SL
Instrument ID: GFPCPROTEAN										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: DUP-03

Lab Sample ID: 180-96077-7

Date Collected: 09/23/19 07:00

Matrix: Water

Date Received: 09/24/19 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			448670	11/04/19 08:22	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

ORM = Octavia Moore

Batch Type: Analysis

KLS = Kody Saulters

SCB = Sarah Bernsen

SMP = Siobhan Perry

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: 5S-GS

Lab Sample ID: 180-96077-1

Date Collected: 09/23/19 10:00

Matrix: Water

Date Received: 09/24/19 09:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.655		0.167	0.177	1.00	0.136	pCi/L	09/26/19 13:12	10/18/19 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		40 - 110					09/26/19 13:12	10/18/19 17:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.456	U	0.301	0.304	1.00	0.466	pCi/L	09/26/19 14:46	10/10/19 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		40 - 110					09/26/19 14:46	10/10/19 12:58	1
Y Carrier	94.6		40 - 110					09/26/19 14:46	10/10/19 12:58	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	1.11		0.344	0.352	5.00	0.466	pCi/L		11/04/19 08:22	1

Client Sample ID: 5D-GS

Lab Sample ID: 180-96077-2

Date Collected: 09/23/19 12:20

Matrix: Water

Date Received: 09/24/19 09:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.59		0.257	0.294	1.00	0.159	pCi/L	09/26/19 13:12	10/18/19 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.1		40 - 110					09/26/19 13:12	10/18/19 17:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.40		0.624	0.744	1.00	0.620	pCi/L	10/24/19 14:59	10/31/19 09:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					10/24/19 14:59	10/31/19 09:13	1
Y Carrier	88.6		40 - 110					10/24/19 14:59	10/31/19 09:13	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: 5D-GS

Lab Sample ID: 180-96077-2

Date Collected: 09/23/19 12:20

Matrix: Water

Date Received: 09/24/19 09:45

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	5.99		0.675	0.800	5.00	0.620	pCi/L		11/04/19 08:22	1

Client Sample ID: 7D-GS

Lab Sample ID: 180-96077-3

Date Collected: 09/23/19 11:20

Matrix: Water

Date Received: 09/24/19 09:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.75		0.248	0.294	1.00	0.114	pCi/L	09/26/19 13:12	10/18/19 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		40 - 110					09/26/19 13:12	10/18/19 17:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.62		0.615	0.700	1.00	0.686	pCi/L	10/24/19 14:59	10/31/19 09:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					10/24/19 14:59	10/31/19 09:02	1
Y Carrier	82.6		40 - 110					10/24/19 14:59	10/31/19 09:02	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	5.37		0.663	0.759	5.00	0.686	pCi/L		11/04/19 08:22	1

Client Sample ID: 6S-GS

Lab Sample ID: 180-96077-4

Date Collected: 09/23/19 14:14

Matrix: Water

Date Received: 09/24/19 09:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.72		0.305	0.392	1.00	0.144	pCi/L	09/26/19 13:12	10/18/19 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		40 - 110					09/26/19 13:12	10/18/19 17:19	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: 6S-GS

Lab Sample ID: 180-96077-4

Date Collected: 09/23/19 14:14

Matrix: Water

Date Received: 09/24/19 09:45

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.44		0.502	0.519	1.00	0.699	pCi/L	10/24/19 14:59	10/31/19 09:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110					10/24/19 14:59	10/31/19 09:02	1
Y Carrier	85.2		40 - 110					10/24/19 14:59	10/31/19 09:02	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	4.16		0.587	0.650	5.00	0.699	pCi/L		11/04/19 08:22	1

Client Sample ID: FB-02

Lab Sample ID: 180-96077-5

Date Collected: 09/23/19 08:50

Matrix: Water

Date Received: 09/24/19 09:45

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	0.0754	0.0754	1.00	0.146	pCi/L	09/26/19 13:12	10/18/19 17:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		40 - 110					09/26/19 13:12	10/18/19 17:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0213	U	0.269	0.269	1.00	0.484	pCi/L	09/26/19 14:46	10/10/19 12:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		40 - 110					09/26/19 14:46	10/10/19 12:59	1
Y Carrier	76.3		40 - 110					09/26/19 14:46	10/10/19 12:59	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	0.0349	U	0.279	0.279	5.00	0.484	pCi/L		11/04/19 08:22	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: EB-02

Lab Sample ID: 180-96077-6

Date Collected: 09/23/19 09:06

Matrix: Water

Date Received: 09/24/19 09:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0220	U	0.0661	0.0662	1.00	0.122	pCi/L	09/26/19 13:12	10/18/19 17:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					09/26/19 13:12	10/18/19 17:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0123	U	0.196	0.196	1.00	0.352	pCi/L	09/26/19 14:46	10/10/19 12:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					09/26/19 14:46	10/10/19 12:59	1
Y Carrier	89.3		40 - 110					09/26/19 14:46	10/10/19 12:59	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	0.0344	U	0.207	0.207	5.00	0.352	pCi/L		11/04/19 08:22	1

Client Sample ID: DUP-03

Lab Sample ID: 180-96077-7

Date Collected: 09/23/19 07:00

Matrix: Water

Date Received: 09/24/19 09:45

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.00		0.311	0.359	1.00	0.206	pCi/L	09/26/19 13:12	10/18/19 17:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.0		40 - 110					09/26/19 13:12	10/18/19 17:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.72		0.520	0.578	1.00	0.600	pCi/L	10/24/19 14:59	10/31/19 09:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					10/24/19 14:59	10/31/19 09:02	1
Y Carrier	84.5		40 - 110					10/24/19 14:59	10/31/19 09:02	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Client Sample ID: DUP-03
Date Collected: 09/23/19 07:00
Date Received: 09/24/19 09:45

Lab Sample ID: 180-96077-7
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	4.72		0.606	0.680	5.00	0.600	pCi/L		11/04/19 08:22	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-444304/21-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444304

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.09451	U	0.0533	0.0540	1.00	0.150	pCi/L	09/26/19 13:12	10/18/19 19:28	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	84.7		40 - 110			09/26/19 13:12	10/18/19 19:28	1		

Lab Sample ID: LCS 160-444304/1-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444304

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	10.37		1.11	1.00	0.150	pCi/L	91	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	76.0		40 - 110						

Lab Sample ID: LCSD 160-444304/2-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444304

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	11.4	10.18		1.11	1.00	0.179	pCi/L	90	75 - 125	0.08	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits			Prepared	Analyzed	Dil Fac			
Ba Carrier	71.5		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-444355/21-A
Matrix: Water
Analysis Batch: 445775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444355

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1711	U	0.301	0.302	1.00	0.509	pCi/L	09/26/19 14:46	10/10/19 13:05	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	84.7		40 - 110			09/26/19 14:46	10/10/19 13:05	1		
Y Carrier	89.3		40 - 110			09/26/19 14:46	10/10/19 13:05	1		

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
SDG: 1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-444355/1-A
Matrix: Water
Analysis Batch: 445720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444355

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.51	12.70	*	1.52	1.00	0.649	pCi/L	134	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	76.0		40 - 110
Y Carrier	70.7		40 - 110

Lab Sample ID: LCSD 160-444355/2-A
Matrix: Water
Analysis Batch: 445720

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444355

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	9.51	12.63	*	1.48	1.00	0.556	pCi/L	133	75 - 125	0.02	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	71.5		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: MB 160-447604/20-A
Matrix: Water
Analysis Batch: 448507

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 447604

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.8154	U G	0.844	0.847	1.00	1.38	pCi/L	10/24/19 15:25	10/31/19 09:03	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110	10/24/19 15:25	10/31/19 09:03	1
Y Carrier	84.9		40 - 110	10/24/19 15:25	10/31/19 09:03	1

Lab Sample ID: LCS 160-447604/1-A
Matrix: Water
Analysis Batch: 448459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 447604

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	31.5	30.72		3.60	1.00	1.41	pCi/L	98	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.6		40 - 110
Y Carrier	86.0		40 - 110

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Watson

Job ID: 180-96077-2
 SDG: 1

Rad

Prep Batch: 444304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	PrecSep-21	
180-96077-2	5D-GS	Total/NA	Water	PrecSep-21	
180-96077-3	7D-GS	Total/NA	Water	PrecSep-21	
180-96077-4	6S-GS	Total/NA	Water	PrecSep-21	
180-96077-5	FB-02	Total/NA	Water	PrecSep-21	
180-96077-6	EB-02	Total/NA	Water	PrecSep-21	
180-96077-7	DUP-03	Total/NA	Water	PrecSep-21	
MB 160-444304/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-444304/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-444304/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

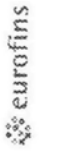
Prep Batch: 444355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-1	5S-GS	Total/NA	Water	PrecSep_0	
180-96077-5	FB-02	Total/NA	Water	PrecSep_0	
180-96077-6	EB-02	Total/NA	Water	PrecSep_0	
MB 160-444355/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-444355/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-444355/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 447604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96077-2	5D-GS	Total/NA	Water	PrecSep_0	
180-96077-3	7D-GS	Total/NA	Water	PrecSep_0	
180-96077-4	6S-GS	Total/NA	Water	PrecSep_0	
180-96077-7	DUP-03	Total/NA	Water	PrecSep_0	
MB 160-447604/20-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-447604/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Chain of Custody Record



Environmental Testing
TestAmerica

Client Information Client Contact: Ms. Lauren Petty Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-5417(Tel) Email: Impetty@southernco.com Project Name: CCR - Plant Watson Special AP Site:		Sampler: <i>Lyric Haynes/Bradley</i> Lab PM: Bortol, Veronica Phone: <i>850-336-0192</i> E-Mail: veronica.bortol@lestamericainc.com		Carrier Tracking No(s): COC No: 180-54585-11376.3 Page: Page 3 of 3 Job #:				
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 18020186 SSO#:		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Total Number of Containers:						
Sample Identification 5S-GS 5D-GS 7D-GS 6S-GS FB-02 EB-02 DW-03		Sample Date 9-23-19 9-23-19 9-23-19 9-23-19 9-23-19 9-23-19	Sample Time 1000 1220 1120 1414 0850 0906 0700	Sample Type (C=Comp, G=grab) G G G G G G	Matrix (W=water, S=solid, O=oil, BT=issue, A=air) Water Water Water ↓ ↓ ↓	Preservation Code: 6 ↓ ↓ ↓ ↓ ↓	Analysis Requested 9315_Ra226, 9320_Ra228 2320B, 2540C_Calcd, SM4500_H+ 6020, 7470A 350, 1, 351, 2, 353, 2_Pres, 4500_P_E 308_ORGMS - ortho Phos Bromide, Cl, SO4, F 5310C - TOC 2540D - TSS RSK_175_CO2 - CarbonDioxide 1664B - Oil and Grease	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)
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:		Method of Shipment:						
Relinquished by: <i>[Signature]</i> Date/Time: 9-23-19 1600 Company: <i>PAH em</i>		Received by: <i>Dillon Watson</i> Date/Time: 9-29-19 Company: <i>PAH</i>						
Relinquished by: <i>[Signature]</i> Date/Time:		Received by: <i>[Signature]</i> Date/Time: 8.95 Company:						
Relinquished by:		Received by:						
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:						



ORIGIN ID: BIXA (850) 336-0192
RICK HAYENDORFOR
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(410) 968-7066
REF: 0201

DEPT: 15238



TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

3 of 4
MPS# **7800 0195 0355**
Mstr# 7800 0195 0333

XH AGCA

15238
PA-US
PIT



Courier or Driver: **97** Barcoded Label Here

10:30 A
0355
09.24

SHIP DATE: 23SEP19
ACTWT: 57.00 LB
CAD: 6993799/SSFE2021
DIMS: 23x13x13 IN

BILL THIRD PARTY

TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(410) 968-7066
REF: 0201

DEPT: 15238



TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

3 of 4
MPS# **7800 0195 0355**
Mstr# 7800 0195 0333

XH AGCA

15238
PA-US
PIT



Courier or Driver: **97** Barcoded Label Here

10:30 A
0355
09.24

Do Not Lift Heavy This Tape

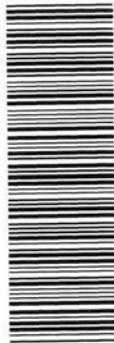
ORIGIN ID: BIXA (850) 336-0192
RICK HAYENDORFOR

301 ALPHA DR

PITTSBURGH, PA 15238

SHIP DATE: 23SEP19
ACTWT: 61.00 LB
CAD: 6993799/SSFE2021
DIMS: 23x13x13 IN

BILL THIRD PARTY



180-96077 Waybill

PITTSBURGH PA 15238

(410) 968-7066
REF: 0201

DEPT: 15238



TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

4 of 4
MPS# **7800 0195 0366**
Mstr# 7800 0195 0333

XH AGCA

15238
PA-US
PIT



Courier or Driver: **97** Barcoded Label Here

10:30 A
0355
09.24

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Do Not Lift Using This Tag

Part # 156297-3 56711/9B04/05A2 12/19

SHIP DATE: 23SEP19
ACTWGT: 87.00 LB
CAD: 6993799/5SFE2021
DIM3: 23x13x13 IN
BILL THIRD PARTY

ORIGIN ID:BIWA (850) 336-0192
RICK HAYENDORFOR
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

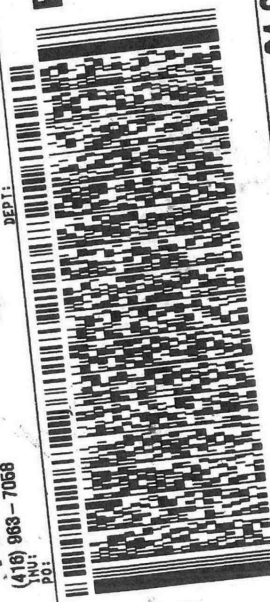
TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (416) 969-7068

DEPT:

FedEx Express



TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

1 of 4
TRK# 7800 0195 0333
MASTER

XH AGCA

15238
PA-US
PIT

1.5 °C

Uncorrected temp
Thermometer ID

CF 0 Initials JS

PT-WI-SR-001 effective 11/8/18



RT **97** 1 **A**
10:30 0333
09.24
FZ

ORIGIN ID:BIWA (850) 336-0192
RICK HAYENDORFOR
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

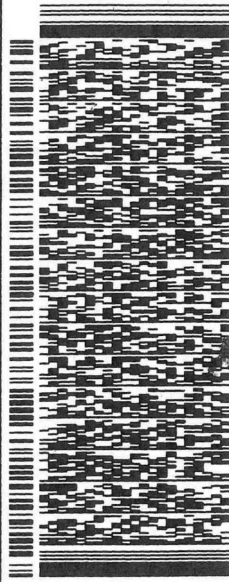
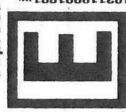
TO **SAMPLE CONTROL**
TA PITTSBURGH
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

REF: (416) 969-7068

DEPT:

FedEx Express



TUE - 24 SEP 10:30A
PRIORITY OVERNIGHT

2 of 4
MPS# 7800 0195 0344
Mstr# 7800 0195 0333

XH AGCA

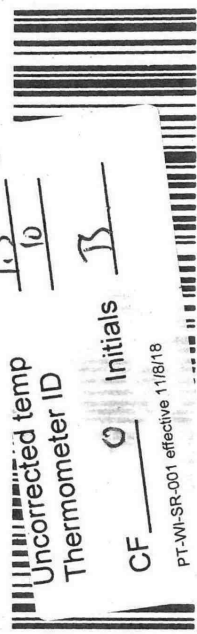
15238
PA-US
PIT

1.5 °C

Uncorrected temp
Thermometer ID

CF 0 Initials JS

PT-WI-SR-001 effective 11/8/18



Courier or Driver: Place Astra or Barcoded Label Here



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96077-2

SDG Number: 1

Login Number: 96077

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96077-2

SDG Number: 1

Login Number: 96077

List Number: 3

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 09/25/19 12:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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.	True	20.0
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?	N/A	
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.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-105283-1
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
7/8/2020 5:13:31 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.

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Job ID: 180-105283-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-105283-1

Receipt

The samples were received on 5/5/2020 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 2.2° C, 2.7° C, 3.5° C, 7.3° C and 8.3° C. No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

RAD

Method 9310: Gross Alpha/Beta Prep Batch 160-473152. The gross alpha and gross beta detection goals were not met for the following samples due to a reduction of the sample size attributed to high residual mass. Analytical results are reported with the MDC achieved. DPT-11-SS RAU2 (SITE WATER) (180-105283-2) and APMW-5 (180-105283-26)

Method 9310: Gross Alpha/Beta Prep Batch 160-473152. The gross alpha detection goals were not met for the following samples due to a reduction of the sample size attributed to high residual mass. Analytical results are reported with the MDC achieved. (410-3210-S-1-E DU)

Method 9310: Gross Alpha-Beta Prep Batch 160-473152. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DPT-11-SS RAU2 (SITE WATER) (180-105283-2), APMW-5 (180-105283-26), (LCS 160-473152/2-A), (LCSB 160-473152/3-A), (MB 160-473152/1-A), (410-3210-S-1-A), (410-3210-S-1-E DU), (410-3210-S-1-B MS), (410-3210-S-1-C MSBT), (410-3210-S-1-D MSBTD) and (410-3210-O-1-B MSD)

Method 9315: Radium 226 Prep Batch:160-473104. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DPT-11-SS RAU2 (SITE WATER) (180-105283-2), APMW-5 (180-105283-26), (LCS 160-473104/1-A), (LCSD 160-473104/2-A), (MB 160-473104/25-A), (280-137307-A-6-A), (280-137307-A-6-B MS) and (280-137307-A-6-C MSD)

Method 9320: Radium-228 Prep Batch 160-473146. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DPT-11-SS RAU2 (SITE WATER) (180-105283-2), APMW-5 (180-105283-26), (LCS 160-473146/1-A), (LCSD 160-473146/2-A), (MB 160-473146/25-A), (280-137307-A-6-D), (280-137307-A-6-E MS) and (280-137307-A-6-F MSD)

Method PrecSep_0: Radium 228 Prep Batch 160-473146. Insufficient sample volume was available to perform a sample duplicate for the following samples: DPT-11-SS RAU2 (SITE WATER) (180-105283-2) and APMW-5 (180-105283-26). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-473104. Insufficient sample volume was available to perform a sample duplicate for the following samples: DPT-11-SS RAU2 (SITE WATER) (180-105283-2) and APMW-5 (180-105283-26). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Metals

Method 6020: Analytical batch 160-473606. The internal standard was outside QC limits in the CCV. All analytes were within acceptable limits, showing that there was no bias. Original results will be reported. (CCV 160-473606/51)

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SL
EPA 9040C	pH	SW846	TAL PIT
9310	Gross Alpha / Beta (GFPC)	SW846	TAL SL
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
1316	Liquid-Solid Partitioning as a Function of Liquid-To-Solid Ratio via Parallel	SW846	TAL PIT
3010A	Preparation, Total Metals	SW846	TAL SL
Evaporation	Preparation, Evaporation	None	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-105283-1	DPT-11-SS RAU2 (SITE WATER)	Solid	04/27/20 12:20	05/01/20 08:15	
180-105283-2	DPT-11-SS RAU2 (SITE WATER)	Water	04/27/20 12:20	05/01/20 08:15	
180-105283-25	APMW-5	Solid	04/21/20 11:37	05/05/20 08:40	
180-105283-26	APMW-5	Water	04/21/20 11:37	05/05/20 08:40	

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Client Sample ID: DPT-11-SS RAU2 (SITE WATER)

Lab Sample ID: 180-105283-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 05/01/20 08:15

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.7		0.1	0.1	SU			06/05/20 16:07	1

Client Sample ID: DPT-11-SS RAU2 (SITE WATER)

Lab Sample ID: 180-105283-2

Date Collected: 04/27/20 12:20

Matrix: Water

Date Received: 05/01/20 08:15

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.000900	U	0.00200	0.000900	mg/L		06/12/20 10:13	06/15/20 18:20	2
Uranium	0.000400	U	0.00100	0.000400	mg/L		06/12/20 10:13	06/15/20 18:20	2

Method: 9310 - Gross Alpha / Beta (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	136	G	84.2	85.6	3.00	115	pCi/L	06/11/20 12:03	06/15/20 10:49	1
Gross Beta	49.0	U G	32.9	33.3	4.00	49.3	pCi/L	06/11/20 12:03	06/15/20 10:49	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.66		0.293	0.441	1.00	0.0724	pCi/L	06/11/20 08:16	07/07/20 16:01	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110	06/11/20 08:16	07/07/20 16:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.44		0.380	0.441	1.00	0.383	pCi/L	06/11/20 09:02	06/25/20 13:05	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110	06/11/20 09:02	06/25/20 13:05	1
Y Carrier	87.5		40 - 110	06/11/20 09:02	06/25/20 13:05	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	6.11		0.480	0.624	5.00	0.383	pCi/L		07/07/20 07:17	1

Client Sample ID: APMW-5

Lab Sample ID: 180-105283-25

Date Collected: 04/21/20 11:37

Matrix: Solid

Date Received: 05/05/20 08:40

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.7		0.1	0.1	SU			06/05/20 16:15	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Client Sample ID: APMW-5

Lab Sample ID: 180-105283-26

Date Collected: 04/21/20 11:37

Matrix: Water

Date Received: 05/05/20 08:40

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.000900	U	0.00200	0.000900	mg/L		06/12/20 10:13	06/15/20 19:15	2
Uranium	0.000400	U	0.00100	0.000400	mg/L		06/12/20 10:13	06/15/20 19:15	2

Method: 9310 - Gross Alpha / Beta (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	56.1	U G	66.0	66.3	3.00	107	pCi/L	06/11/20 12:03	06/15/20 12:11	1
Gross Beta	55.8	G	31.6	32.1	4.00	46.7	pCi/L	06/11/20 12:03	06/15/20 12:11	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.351		0.0959	0.101	1.00	0.0665	pCi/L	06/11/20 08:16	07/07/20 16:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	107		40 - 110					06/11/20 08:16	07/07/20 16:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.02		0.402	0.488	1.00	0.370	pCi/L	06/11/20 09:02	06/25/20 13:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	107		40 - 110					06/11/20 09:02	06/25/20 13:05	1
Y Carrier	86.0		40 - 110					06/11/20 09:02	06/25/20 13:05	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.37		0.413	0.498	5.00	0.370	pCi/L		07/07/20 07:17	1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Client Sample ID: DPT-11-SS RAU2 (SITE WATER)

Lab Sample ID: 180-105283-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 05/01/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1316			1000 g	3000 mL	318231	05/27/20 15:45	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			318232	06/05/20 16:07	LWM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DPT-11-SS RAU2 (SITE WATER)

Lab Sample ID: 180-105283-2

Date Collected: 04/27/20 12:20

Matrix: Water

Date Received: 05/01/20 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	473226	06/12/20 10:13	DAS	TAL SL
Total/NA	Analysis	6020		2			473606	06/15/20 18:20	LKP	TAL SL
Instrument ID: ICPMS7700										
Total/NA	Prep	Evaporation			4.18 mL	1.0 g	473152	06/11/20 12:03	RJD	TAL SL
Total/NA	Analysis	9310		1			473284	06/15/20 10:49	KLS	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep-21			1000.77 mL	1.0 g	473104	06/11/20 08:16	RBR	TAL SL
Total/NA	Analysis	9315		1			475699	07/07/20 16:01	JLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.77 mL	1.0 g	473146	06/11/20 09:02	RBR	TAL SL
Total/NA	Analysis	9320		1			474543	06/25/20 13:05	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			475421	07/07/20 07:17	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5

Lab Sample ID: 180-105283-25

Date Collected: 04/21/20 11:37

Matrix: Solid

Date Received: 05/05/20 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1316			1.0 g	3000 mL	318231	05/27/20 15:45	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			318232	06/05/20 16:15	LWM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5

Lab Sample ID: 180-105283-26

Date Collected: 04/21/20 11:37

Matrix: Water

Date Received: 05/05/20 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	473226	06/12/20 10:13	DAS	TAL SL
Total/NA	Analysis	6020		2			473606	06/15/20 19:15	LKP	TAL SL
Instrument ID: ICPMS7700										
Total/NA	Prep	Evaporation			4.01 mL	1.0 g	473152	06/11/20 12:03	RJD	TAL SL
Total/NA	Analysis	9310		1			473284	06/15/20 12:11	KLS	TAL SL
Instrument ID: GFPCRED										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Client Sample ID: APMW-5

Lab Sample ID: 180-105283-26

Date Collected: 04/21/20 11:37

Matrix: Water

Date Received: 05/05/20 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.17 mL	1.0 g	473104	06/11/20 08:16	RBR	TAL SL
Total/NA	Analysis	9315		1	1.0 mL	1.0 mL	475699	07/07/20 16:01	JLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.17 mL	1.0 g	473146	06/11/20 09:02	RBR	TAL SL
Total/NA	Analysis	9320		1			474543	06/25/20 13:05	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			475421	07/07/20 07:17	SMP	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL PIT

Batch Type: Leach

LWM = Larry Matko

Batch Type: Analysis

LWM = Larry Matko

Lab: TAL SL

Batch Type: Prep

DAS = Daniel Shinn

RBR = Rachael Ratcliff

RJD = Ryan Domalewski

Batch Type: Analysis

JLC = Jessica Chapman

KLS = Kody Saulters

LKP = Laura Pemberton

SMP = Siobhan Perry

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Metals

Prep Batch: 473226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105283-2	DPT-11-SS RAU2 (SITE WATER)	Total/NA	Water	3010A	
180-105283-26	APMW-5	Total/NA	Water	3010A	
MB 160-473226/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-473226/2-A	Lab Control Sample	Total/NA	Water	3010A	
180-105283-2 MS	DPT-11-SS RAU2 (SITE WATER)	Total/NA	Water	3010A	
180-105283-2 MSD	DPT-11-SS RAU2 (SITE WATER)	Total/NA	Water	3010A	

Analysis Batch: 473606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105283-2	DPT-11-SS RAU2 (SITE WATER)	Total/NA	Water	6020	473226
180-105283-26	APMW-5	Total/NA	Water	6020	473226
MB 160-473226/1-A	Method Blank	Total/NA	Water	6020	473226
LCS 160-473226/2-A	Lab Control Sample	Total/NA	Water	6020	473226
180-105283-2 MS	DPT-11-SS RAU2 (SITE WATER)	Total/NA	Water	6020	473226
180-105283-2 MSD	DPT-11-SS RAU2 (SITE WATER)	Total/NA	Water	6020	473226

General Chemistry

Leach Batch: 318231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105283-1	DPT-11-SS RAU2 (SITE WATER)	Leach	Solid	1316	
180-105283-25	APMW-5	Leach	Solid	1316	

Analysis Batch: 318232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105283-1	DPT-11-SS RAU2 (SITE WATER)	Leach	Solid	EPA 9040C	318231
180-105283-25	APMW-5	Leach	Solid	EPA 9040C	318231
LCS 180-318232/1	Lab Control Sample	Total/NA	Solid	EPA 9040C	

Rad

Prep Batch: 473104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105283-2	DPT-11-SS RAU2 (SITE WATER)	Total/NA	Water	PrecSep-21	
180-105283-26	APMW-5	Total/NA	Water	PrecSep-21	
MB 160-473104/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-473104/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-473104/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	
280-137307-A-6-B MS	Matrix Spike	Total/NA	Water	PrecSep-21	
280-137307-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 473146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105283-2	DPT-11-SS RAU2 (SITE WATER)	Total/NA	Water	PrecSep_0	
180-105283-26	APMW-5	Total/NA	Water	PrecSep_0	
MB 160-473146/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-473146/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-473146/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	
280-137307-A-6-E MS	Matrix Spike	Total/NA	Water	PrecSep_0	
280-137307-A-6-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Rad

Prep Batch: 473152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105283-2	DPT-11-SS RAU2 (SITE WATER)	Total/NA	Water	Evaporation	
180-105283-26	APMW-5	Total/NA	Water	Evaporation	
MB 160-473152/1-A	Method Blank	Total/NA	Water	Evaporation	
LCS 160-473152/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-473152/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
410-3210-O-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	Evaporation	
410-3210-S-1-B MS	Matrix Spike	Total/NA	Water	Evaporation	
410-3210-S-1-C MSBT	Matrix Spike	Total/NA	Water	Evaporation	
410-3210-S-1-D MSBTD	Matrix Spike Duplicate	Total/NA	Water	Evaporation	
410-3210-S-1-E DU	Duplicate	Total/NA	Water	Evaporation	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-473226/1-A
Matrix: Water
Analysis Batch: 473606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.000900	U	0.00200	0.000900	mg/L		06/12/20 10:13	06/15/20 18:07	2
Uranium	0.000400	U	0.00100	0.000400	mg/L		06/12/20 10:13	06/15/20 18:07	2

Lab Sample ID: LCS 160-473226/2-A
Matrix: Water
Analysis Batch: 473606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thorium	1.00	1.053		mg/L		105	80 - 120
Uranium	1.00	1.043		mg/L		104	80 - 120

Lab Sample ID: 180-105283-2 MS
Matrix: Water
Analysis Batch: 473606

Client Sample ID: DPT-11-SS RAU2 (SITE WATER)
Prep Type: Total/NA
Prep Batch: 473226

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thorium	0.000900	U	1.00	1.080		mg/L		108	75 - 125
Uranium	0.000400	U	1.00	1.041		mg/L		104	75 - 125

Lab Sample ID: 180-105283-2 MSD
Matrix: Water
Analysis Batch: 473606

Client Sample ID: DPT-11-SS RAU2 (SITE WATER)
Prep Type: Total/NA
Prep Batch: 473226

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Thorium	0.000900	U	1.00	1.044		mg/L		104	75 - 125	3	20
Uranium	0.000400	U	1.00	1.013		mg/L		101	75 - 125	3	20

Method: EPA 9040C - pH

Lab Sample ID: LCS 180-318232/1
Matrix: Solid
Analysis Batch: 318232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Method: 9310 - Gross Alpha / Beta (GFPC)

Lab Sample ID: MB 160-473152/1-A
Matrix: Water
Analysis Batch: 473284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473152

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.08835	U	0.606	0.606	3.00	1.22	pCi/L	06/11/20 12:03	06/15/20 10:49	1
Gross Beta	-0.3352	U	0.456	0.457	4.00	0.885	pCi/L	06/11/20 12:03	06/15/20 10:49	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Method: 9310 - Gross Alpha / Beta (GFPC) (Continued)

Lab Sample ID: LCS 160-473152/2-A
Matrix: Water
Analysis Batch: 473284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473152

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	49.5	49.97		7.42	3.00	1.93	pCi/L	101	75 - 125

Lab Sample ID: LCSB 160-473152/3-A
Matrix: Water
Analysis Batch: 473284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473152

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	84.2	80.84		8.61	4.00	0.890	pCi/L	96	75 - 125

Lab Sample ID: 410-3210-O-1-B MSD
Matrix: Water
Analysis Batch: 473284

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 473152

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Gross Alpha	-0.549	U	80.6	70.25		10.9	3.00	3.29	pCi/L	87	70 - 130	0	1

Lab Sample ID: 410-3210-S-1-B MS
Matrix: Water
Analysis Batch: 473284

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 473152

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	-0.549	U	80.6	70.34		11.1	3.00	4.52	pCi/L	87	70 - 130

Lab Sample ID: 410-3210-S-1-C MSBT
Matrix: Water
Analysis Batch: 473284

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 473152

Analyte	Sample Result	Sample Qual	Spike Added	MSBT Result	MSBT Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	3.19		137	131.7		14.0	4.00	1.29	pCi/L	94	70 - 130

Lab Sample ID: 410-3210-S-1-D MSBTD
Matrix: Water
Analysis Batch: 473284

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 473152

Analyte	Sample Result	Sample Qual	Spike Added	MSBTD Result	MSBTD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Gross Beta	3.19		137	135.0		14.4	4.00	1.37	pCi/L	96	70 - 130	0.12	1

Lab Sample ID: 410-3210-S-1-E DU
Matrix: Water
Analysis Batch: 473284

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 473152

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Gross Alpha	-0.549	U	0.9677	U G	1.76	3.00	3.10	pCi/L	0.54	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Method: 9310 - Gross Alpha / Beta (GFPC) (Continued)

Lab Sample ID: 410-3210-S-1-E DU
Matrix: Water
Analysis Batch: 473284

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 473152

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Gross Beta	3.19		1.583		1.02	4.00	1.52	pCi/L	0.72	1

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-473104/25-A
Matrix: Water
Analysis Batch: 475732

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473104

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02746	U	0.0470	0.0470	1.00	0.0840	pCi/L	06/11/20 08:16	07/08/20 05:48	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					06/11/20 08:16	07/08/20 05:48	1

Lab Sample ID: LCS 160-473104/1-A
Matrix: Water
Analysis Batch: 475699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473104

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	15.1	13.06		1.35	1.00	0.144	pCi/L	86	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	97.3		40 - 110						

Lab Sample ID: LCSD 160-473104/2-A
Matrix: Water
Analysis Batch: 475699

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 473104

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	15.1	12.49		1.29	1.00	0.0868	pCi/L	83	75 - 125	NaN	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	103		40 - 110								

Lab Sample ID: 280-137307-A-6-B MS
Matrix: Water
Analysis Batch: 475732

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 473104

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	0.0296	U	15.1	12.70		1.32	1.00	0.130	pCi/L	84	75 - 138
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	96.4		40 - 110								

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: 280-137307-A-6-C MSD
Matrix: Water
Analysis Batch: 475732

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 473104

Analyte	Sample	Sample	Spike Added	MSD	MSD	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
	Result	Qual		Result	Qual								
Radium-226	0.0296	U	15.1	12.66		1.31	1.00	0.108	pCi/L	83	75 - 138	0.02	1
Carrier	%Yield	MSD Qualifier	Limits										
Ba Carrier	96.1		40 - 110										

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-473146/25-A
Matrix: Water
Analysis Batch: 474544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473146

Analyte	MB	MB	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.3757	U	0.283	0.285	1.00	0.442	pCi/L	06/11/20 09:02	06/25/20 13:19	1
Carrier	%Yield	MB Qualifier	Limits							
Ba Carrier	101		40 - 110							
Y Carrier	87.5		40 - 110							
								Prepared	Analyzed	Dil Fac
								06/11/20 09:02	06/25/20 13:19	1
								06/11/20 09:02	06/25/20 13:19	1

Lab Sample ID: LCS 160-473146/1-A
Matrix: Water
Analysis Batch: 474543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473146

Analyte	Spike Added	LCS	LCS	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
		Result	Qual						
Radium-228	11.6	10.93		1.32	1.00	0.519	pCi/L	94	75 - 125
Carrier	%Yield	LCS Qualifier	Limits						
Ba Carrier	97.3		40 - 110						
Y Carrier	86.4		40 - 110						

Lab Sample ID: LCSD 160-473146/2-A
Matrix: Water
Analysis Batch: 474543

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 473146

Analyte	Spike Added	LCSD	LCSD	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
		Result	Qual								
Radium-228	11.6	10.46		1.27	1.00	0.513	pCi/L	90	75 - 125	0.18	1
Carrier	%Yield	LCSD Qualifier	Limits								
Ba Carrier	103		40 - 110								
Y Carrier	83.4		40 - 110								

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 280-137307-A-6-E MS
Matrix: Water
Analysis Batch: 474544

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 473146

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	-0.0524	U	11.6	10.50		1.30	1.00	0.610	pCi/L	90	45 - 150
				MS	MS						
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	96.4		40 - 110								
Y Carrier	84.5		40 - 110								

Lab Sample ID: 280-137307-A-6-F MSD
Matrix: Water
Analysis Batch: 474544

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 473146

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	-0.0524	U	11.6	10.37		1.28	1.00	0.585	pCi/L	89	45 - 150	0.05	1
				MSD	MSD								
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	96.1		40 - 110										
Y Carrier	83.7		40 - 110										

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-105283-1

Login Number: 105283

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-105283-1

Login Number: 105283

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 06/10/20 02:57 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-26-20
California	State	2891	04-30-21
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	05-23-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-21
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-21
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 180-105283-1

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20



ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-187320-1
Laboratory Sample Delivery Group: Plant Watson
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
5/12/2020 1:53:56 PM
Mark Swafford, Project Manager II
(850)471-6207
mark.swafford@testamericainc.com

Designee for
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.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Job ID: 400-187320-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-187320-1

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria of <6°C (16.6°C, 17.0°C, 17.1°C, 17.9°C) and without any cooling agent (ice or otherwise): DPT-1-SS BA V2 (22-24) (400-187320-1), DPT-1-SS BA V3 (38-40) (400-187320-2), DPT-2-SS BA V2 (26-27) (400-187320-3), DPT-2-SS BA V3 (37-38) (400-187320-4), DPT-3-SS BA V2 (24-25) (400-187320-5), DPT-3-SS BA V3 (29-30) (400-187320-6), DPT-4-SS BA V2 (15-16) (400-187320-7), DPT-4-SS BA V3 (28-29) (400-187320-8), DPT-5-SS BA V2 (17-18) (400-187320-9), DPT-5-SS BA V3 (23-24) (400-187320-10), DPT-6-SS BA V2 (400-187320-11), DPT-1-SS RA V2 (400-187320-12), DPT-1-SS RA V3 (400-187320-13), DPT-2-SS RA V2 (400-187320-14), DPT-2-SS RA V3 (400-187320-15), DPT-3-SS RA V2 (400-187320-16), DPT-3-SS RA V3 (400-187320-17), DPT-4-SS RA V2 (400-187320-18), DPT-4-SS RA V3 (400-187320-19), DPT-5-SS RA V2 (400-187320-20), DPT-5-SS RA V3 (400-187320-21), DPT-6-SS RA V2 (400-187320-22), DPT-6-SS BA V3 (23-24) (400-187320-23), DPT-7-SS BA V2 (18-19) (400-187320-24), DPT-7-SS BA V3 (27-28) (400-187320-25), DPT-8-SS BA V2 (25-26) (400-187320-26), DPT-8-SS BA V3 (39-40) (400-187320-27), DPT-9-SS BA V2 (27-28) (400-187320-28), DPT-9-SS BA V3 (32-33) (400-187320-29), DPT-10-SS BA V2 (22-23) (400-187320-30), DPT-10-SS BA V3 (25-26) (400-187320-31), DUP-01 (400-187320-32), DUP-02 (400-187320-33), DPT-6-SS RA V3 (400-187320-34), DPT-7-SS RA V2 (400-187320-35), DPT-7-SS RA V3 (400-187320-36), DPT-8-SS RA V2 (400-187320-37), DPT-8-SS RA V3 (400-187320-38), DPT-9-SS RA V2 (400-187320-39), DPT-9-SS RA V3 (400-187320-40), DPT-10-SS RA V2 (400-187320-41), DPT-10-SS RA V3 (400-187320-42), DUP-01 (400-187320-43) and DUP-02 (400-187320-44)

Department General Chemistry

Method 9034_Calc_AVS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-314515 and analytical batch 180-314525 were outside control limits, low. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limit

Method 9034_Calc_AVS: The matrix spike duplicate (MSD) recoveries for preparation batch 180-314620 and analytical batch 180-314627 were outside control limits (low recoveries). Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limit

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SL
2540G	SM 2540G	SM22	TAL PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL PIT
Moisture	Percent Moisture	EPA	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
AVSSEM	Preparation, Acid Volatile Sulfide (AVS) and Simultaneously Extracted Metals (SE)	EPA	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187320-1	DPT-1-SS BA V2 (22-24)	Sediment	04/20/20 15:55	04/28/20 08:49	
400-187320-2	DPT-1-SS BA V3 (38-40)	Sediment	04/20/20 16:00	04/28/20 08:49	
400-187320-3	DPT-2-SS BA V2 (26-27)	Sediment	04/21/20 11:00	04/28/20 08:49	
400-187320-4	DPT-2-SS BA V3 (37-38)	Sediment	04/21/20 11:05	04/28/20 08:49	
400-187320-5	DPT-3-SS BA V2 (24-25)	Sediment	04/21/20 14:20	04/28/20 08:49	
400-187320-6	DPT-3-SS BA V3 (29-30)	Sediment	04/21/20 14:25	04/28/20 08:49	
400-187320-7	DPT-4-SS BA V2 (15-16)	Sediment	04/21/20 17:55	04/28/20 08:49	
400-187320-8	DPT-4-SS BA V3 (28-29)	Sediment	04/21/20 17:45	04/28/20 08:49	
400-187320-9	DPT-5-SS BA V2 (17-18)	Sediment	04/22/20 11:25	04/28/20 08:49	
400-187320-10	DPT-5-SS BA V3 (23-24)	Sediment	04/22/20 11:30	04/28/20 08:49	
400-187320-11	DPT-6-SS BA V2	Sediment	04/22/20 15:00	04/28/20 08:49	
400-187320-12	DPT-1-SS RA V2	Solid	04/20/20 15:55	04/28/20 08:49	
400-187320-13	DPT-1-SS RA V3	Solid	04/20/20 16:00	04/28/20 08:49	
400-187320-14	DPT-2-SS RA V2	Solid	04/21/20 11:00	04/28/20 08:49	
400-187320-15	DPT-2-SS RA V3	Solid	04/21/20 11:05	04/28/20 08:49	
400-187320-16	DPT-3-SS RA V2	Solid	04/21/20 14:20	04/28/20 08:49	
400-187320-17	DPT-3-SS RA V3	Solid	04/21/20 14:25	04/28/20 08:49	
400-187320-18	DPT-4-SS RA V2	Solid	04/21/20 17:55	04/28/20 08:49	
400-187320-19	DPT-4-SS RA V3	Solid	04/21/20 17:45	04/28/20 08:49	
400-187320-20	DPT-5-SS RA V2	Solid	04/22/20 11:25	04/28/20 08:49	
400-187320-21	DPT-5-SS RA V3	Solid	04/22/20 11:30	04/28/20 08:49	
400-187320-22	DPT-6-SS RA V2	Solid	04/22/20 15:00	04/28/20 08:49	
400-187320-23	DPT-6-SS BA V3 (23-24)	Sediment	04/22/20 15:05	04/28/20 08:49	
400-187320-24	DPT-7-SS BA V2 (18-19)	Sediment	04/23/20 09:25	04/28/20 08:49	
400-187320-25	DPT-7-SS BA V3 (27-28)	Sediment	04/23/20 09:30	04/28/20 08:49	
400-187320-26	DPT-8-SS BA V2 (25-26)	Sediment	04/24/20 07:45	04/28/20 08:49	
400-187320-27	DPT-8-SS BA V3 (39-40)	Sediment	04/24/20 07:50	04/28/20 08:49	
400-187320-28	DPT-9-SS BA V2 (27-28)	Sediment	04/24/20 12:10	04/28/20 08:49	
400-187320-29	DPT-9-SS BA V3 (32-33)	Sediment	04/24/20 12:15	04/28/20 08:49	
400-187320-30	DPT-10-SS BA V2 (22-23)	Sediment	04/24/20 13:20	04/28/20 08:49	
400-187320-31	DPT-10-SS BA V3 (25-26)	Sediment	04/24/20 13:25	04/28/20 08:49	
400-187320-32	DUP-01	Sediment	04/21/20 00:00	04/28/20 08:49	
400-187320-33	DUP-02	Sediment	04/21/20 00:00	04/28/20 08:49	
400-187320-34	DPT-6-SS RA V3	Solid	04/22/20 15:05	04/28/20 08:49	
400-187320-35	DPT-7-SS RA V2	Solid	04/23/20 09:25	04/28/20 08:49	
400-187320-36	DPT-7-SS RA V3	Solid	04/23/20 09:30	04/28/20 08:49	
400-187320-37	DPT-8-SS RA V2	Solid	04/24/20 07:45	04/28/20 08:49	
400-187320-38	DPT-8-SS RA V3	Solid	04/24/20 07:50	04/28/20 08:49	
400-187320-39	DPT-9-SS RA V2	Solid	04/24/20 12:10	04/28/20 08:49	
400-187320-40	DPT-9-SS RA V3	Solid	04/24/20 12:15	04/28/20 08:49	
400-187320-41	DPT-10-SS RA V2	Solid	04/24/20 13:20	04/28/20 08:49	
400-187320-42	DPT-10-SS RA V3	Solid	04/24/20 13:25	04/28/20 08:49	
400-187320-43	DUP-01	Solid	04/21/20 00:00	04/28/20 08:49	
400-187320-44	DUP-02	Solid	04/21/20 00:00	04/28/20 08:49	

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-1-SS BA V2 (22-24)

Lab Sample ID: 400-187320-1

Date Collected: 04/20/20 15:55

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 76.2

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.55	U F1	19.7	6.55	mg/Kg	☼	05/04/20 11:30	05/04/20 13:03	1

- 1
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-1-SS BA V3 (38-40)

Lab Sample ID: 400-187320-2

Date Collected: 04/20/20 16:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 82.0

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.08	U	18.2	6.08	mg/Kg	☼	05/04/20 11:30	05/04/20 13:09	1

- 1
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- 4
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- 11
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-2-SS BA V2 (26-27)

Lab Sample ID: 400-187320-3

Date Collected: 04/21/20 11:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 81.2

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.12	U	18.4	6.12	mg/Kg	☼	05/04/20 11:30	05/04/20 13:11	1

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- 11
- 12
- 13

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-2-SS BA V3 (37-38)

Lab Sample ID: 400-187320-4

Date Collected: 04/21/20 11:05

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 83.6

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.00	U	18.0	6.00	mg/Kg	☼	05/04/20 11:30	05/04/20 13:13	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-3-SS BA V2 (24-25)

Lab Sample ID: 400-187320-5

Date Collected: 04/21/20 14:20

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 59.2

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	8.39	U	25.2	8.39	mg/Kg	☼	05/04/20 11:30	05/04/20 13:15	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-3-SS BA V3 (29-30)

Lab Sample ID: 400-187320-6

Date Collected: 04/21/20 14:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 86.0

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.76	U	17.3	5.76	mg/Kg	☼	05/04/20 11:30	05/04/20 13:17	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-4-SS BA V2 (15-16)

Lab Sample ID: 400-187320-7

Date Collected: 04/21/20 17:55

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 37.9

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	13.1	U	39.2	13.1	mg/Kg	☼	05/04/20 11:30	05/04/20 13:23	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-4-SS BA V3 (28-29)

Lab Sample ID: 400-187320-8

Date Collected: 04/21/20 17:45

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 84.8

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.88	U	17.6	5.88	mg/Kg	☼	05/04/20 11:30	05/04/20 13:25	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-5-SS BA V2 (17-18)

Lab Sample ID: 400-187320-9

Date Collected: 04/22/20 11:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 75.7

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.59	U F1	19.8	6.59	mg/Kg	☼	05/05/20 14:47	05/05/20 17:02	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-5-SS BA V3 (23-24)

Lab Sample ID: 400-187320-10

Date Collected: 04/22/20 11:30

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 81.8

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.10	U	18.3	6.10	mg/Kg	☼	05/05/20 14:47	05/05/20 17:07	1

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- 11
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-6-SS BA V2

Lab Sample ID: 400-187320-11

Date Collected: 04/22/20 15:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 66.1

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	7.54	U	22.6	7.54	mg/Kg	☼	05/05/20 14:47	05/05/20 17:09	1

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- 12
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	3.20		0.226	0.102	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Uranium	0.564		0.113	0.0451	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2

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- 12
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 74.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	1.24		0.256	0.115	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Uranium	0.347		0.128	0.0512	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2

- 1
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- 11
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 70.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.91		0.279	0.125	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Uranium	0.743		0.139	0.0558	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.273		0.257	0.116	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Uranium	0.0514	U	0.129	0.0514	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 60.9

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	5.90		0.300	0.135	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Uranium	1.48		0.150	0.0601	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.247		0.221	0.0997	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Uranium	0.142		0.111	0.0443	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 39.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	1.44		0.478	0.215	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Uranium	1.10		0.239	0.0957	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 86.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.108	J	0.213	0.0957	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Uranium	0.0523	J	0.106	0.0425	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 71.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.06		0.233	0.105	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Uranium	0.384		0.117	0.0467	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.129	J	0.218	0.0982	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Uranium	0.0437	U	0.109	0.0437	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2

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- 3
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 65.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.58		0.293	0.132	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Uranium	0.689		0.147	0.0587	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-6-SS BA V3 (23-24)

Lab Sample ID: 400-187320-23

Date Collected: 04/22/20 15:05

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.5

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.42	U	19.2	6.42	mg/Kg	☼	05/05/20 14:47	05/05/20 17:10	1

- 1
- 2
- 3
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- 6
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- 11
- 12
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-7-SS BA V2 (18-19)

Lab Sample ID: 400-187320-24

Date Collected: 04/23/20 09:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.0

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.47	U	19.4	6.47	mg/Kg	☼	05/05/20 14:47	05/05/20 17:12	1

- 1
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-7-SS BA V3 (27-28)

Lab Sample ID: 400-187320-25

Date Collected: 04/23/20 09:30

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 57.2

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	8.74	U	26.2	8.74	mg/Kg	☼	05/05/20 14:47	05/05/20 17:14	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-8-SS BA V2 (25-26)

Lab Sample ID: 400-187320-26

Date Collected: 04/24/20 07:45

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 66.7

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	7.53	U	22.6	7.53	mg/Kg	☼	05/05/20 14:47	05/05/20 17:19	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-8-SS BA V3 (39-40)

Lab Sample ID: 400-187320-27

Date Collected: 04/24/20 07:50

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 80.0

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.24	U	18.7	6.24	mg/Kg	☼	05/05/20 14:47	05/05/20 17:21	1

- 1
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- 12
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-9-SS BA V2 (27-28)

Lab Sample ID: 400-187320-28

Date Collected: 04/24/20 12:10

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.8

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.40	U	19.2	6.40	mg/Kg	☼	05/05/20 14:47	05/05/20 17:23	1

- 1
- 2
- 3
- 4
- 5
- 6
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- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-9-SS BA V3 (32-33)

Lab Sample ID: 400-187320-29

Date Collected: 04/24/20 12:15

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 89.3

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.60	U	16.8	5.60	mg/Kg	☼	05/05/20 14:47	05/05/20 17:25	1

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- 12
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-10-SS BA V2 (22-23)

Lab Sample ID: 400-187320-30

Date Collected: 04/24/20 13:20

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 85.4

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.82	U	17.5	5.82	mg/Kg	☼	05/05/20 14:47	05/05/20 17:26	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-10-SS BA V3 (25-26)

Lab Sample ID: 400-187320-31

Date Collected: 04/24/20 13:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.4

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.45	U	19.3	6.45	mg/Kg	☼	05/05/20 14:47	05/05/20 17:28	1

- 1
- 2
- 3
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- 11
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DUP-01
Date Collected: 04/21/20 00:00
Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-32
Matrix: Sediment
Percent Solids: 87.6

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.68	U	17.0	5.68	mg/Kg	☼	05/04/20 11:30	05/04/20 13:27	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DUP-02
Date Collected: 04/21/20 00:00
Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-33
Matrix: Sediment
Percent Solids: 78.6

General Chemistry - SEM/AVS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	6.33	U	19.0	6.33	mg/Kg	☼	05/04/20 11:30	05/04/20 13:29	1

- 1
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.117	J	0.220	0.0988	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Uranium	0.0439	U	0.110	0.0439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 76.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.11		0.233	0.105	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Uranium	0.418		0.117	0.0467	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.300		0.231	0.104	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Uranium	0.0474	J	0.116	0.0463	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson

Job ID: 400-187320-1
 SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	1.89		0.220	0.0992	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Uranium	0.365		0.110	0.0441	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.818		0.234	0.105	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Uranium	0.108	J	0.117	0.0468	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	3.76		0.219	0.0987	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Uranium	0.451		0.110	0.0439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.159	J	0.234	0.105	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Uranium	0.0491	J	0.117	0.0467	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2

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- 3
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- 11
- 12
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	2.37		0.218	0.0980	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Uranium	0.259		0.109	0.0435	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2

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- 11
- 12
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.171	J	0.228	0.103	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Uranium	0.0456	U	0.114	0.0456	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2

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- 12
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DUP-01
Date Collected: 04/21/20 00:00
Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-43
Matrix: Solid
Percent Solids: 77.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.203	J	0.218	0.0982	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Uranium	0.0437	U	0.109	0.0437	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2

- 1
- 2
- 3
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- 12
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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DUP-02
Date Collected: 04/21/20 00:00
Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-44
Matrix: Solid
Percent Solids: 78.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.60		0.218	0.0980	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Uranium	1.07		0.109	0.0435	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2

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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)
MQL	Method Quantitation Limit
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: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-1-SS BA V2 (22-24)

Date Collected: 04/20/20 15:55

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-1

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	04/30/20 23:13	PMH	TAL PIT

Client Sample ID: DPT-1-SS BA V2 (22-24)

Date Collected: 04/20/20 15:55

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-1

Matrix: Sediment

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:03	CMR	TAL PIT

Client Sample ID: DPT-1-SS BA V3 (38-40)

Date Collected: 04/20/20 16:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-2

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 00:11	PMH	TAL PIT

Client Sample ID: DPT-1-SS BA V3 (38-40)

Date Collected: 04/20/20 16:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-2

Matrix: Sediment

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:09	CMR	TAL PIT

Client Sample ID: DPT-2-SS BA V2 (26-27)

Date Collected: 04/21/20 11:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-3

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 01:08	PMH	TAL PIT

Client Sample ID: DPT-2-SS BA V2 (26-27)

Date Collected: 04/21/20 11:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-3

Matrix: Sediment

Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:11	CMR	TAL PIT

Client Sample ID: DPT-2-SS BA V3 (37-38)

Date Collected: 04/21/20 11:05

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-4

Matrix: Sediment

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 02:05	PMH	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-2-SS BA V3 (37-38)

Lab Sample ID: 400-187320-4

Date Collected: 04/21/20 11:05

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:13	CMR	TAL PIT

Client Sample ID: DPT-3-SS BA V2 (24-25)

Lab Sample ID: 400-187320-5

Date Collected: 04/21/20 14:20

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 03:02	PMH	TAL PIT

Client Sample ID: DPT-3-SS BA V2 (24-25)

Lab Sample ID: 400-187320-5

Date Collected: 04/21/20 14:20

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 59.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:15	CMR	TAL PIT

Client Sample ID: DPT-3-SS BA V3 (29-30)

Lab Sample ID: 400-187320-6

Date Collected: 04/21/20 14:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 04:00	PMH	TAL PIT

Client Sample ID: DPT-3-SS BA V3 (29-30)

Lab Sample ID: 400-187320-6

Date Collected: 04/21/20 14:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:17	CMR	TAL PIT

Client Sample ID: DPT-4-SS BA V2 (15-16)

Lab Sample ID: 400-187320-7

Date Collected: 04/21/20 17:55

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 04:57	PMH	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-4-SS BA V2 (15-16)

Lab Sample ID: 400-187320-7

Date Collected: 04/21/20 17:55

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 37.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:23	CMR	TAL PIT

Client Sample ID: DPT-4-SS BA V3 (28-29)

Lab Sample ID: 400-187320-8

Date Collected: 04/21/20 17:45

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 07:48	PMH	TAL PIT

Client Sample ID: DPT-4-SS BA V3 (28-29)

Lab Sample ID: 400-187320-8

Date Collected: 04/21/20 17:45

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:25	CMR	TAL PIT

Client Sample ID: DPT-5-SS BA V2 (17-18)

Lab Sample ID: 400-187320-9

Date Collected: 04/22/20 11:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 08:46	PMH	TAL PIT

Client Sample ID: DPT-5-SS BA V2 (17-18)

Lab Sample ID: 400-187320-9

Date Collected: 04/22/20 11:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:02	TAM	TAL PIT

Client Sample ID: DPT-5-SS BA V3 (23-24)

Lab Sample ID: 400-187320-10

Date Collected: 04/22/20 11:30

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 09:43	PMH	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-5-SS BA V3 (23-24)

Lab Sample ID: 400-187320-10

Date Collected: 04/22/20 11:30

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:07	TAM	TAL PIT

Client Sample ID: DPT-6-SS BA V2

Lab Sample ID: 400-187320-11

Date Collected: 04/22/20 15:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 10:40	PMH	TAL PIT

Client Sample ID: DPT-6-SS BA V2

Lab Sample ID: 400-187320-11

Date Collected: 04/22/20 15:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 66.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:09	TAM	TAL PIT

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 17:59	FLC	TAL SL

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 18:33	FLC	TAL SL

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 70.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 18:39	FLC	TAL SL

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:06	FLC	TAL SL

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 60.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:13	FLC	TAL SL

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:20	FLC	TAL SL

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 39.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:26	FLC	TAL SL

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:33	FLC	TAL SL

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 71.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:40	FLC	TAL SL

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:46	FLC	TAL SL

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 65.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 19:53	FLC	TAL SL

Client Sample ID: DPT-6-SS BA V3 (23-24)

Lab Sample ID: 400-187320-23

Date Collected: 04/22/20 15:05

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 11:37	PMH	TAL PIT

Client Sample ID: DPT-6-SS BA V3 (23-24)

Lab Sample ID: 400-187320-23

Date Collected: 04/22/20 15:05

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:10	TAM	TAL PIT

Client Sample ID: DPT-7-SS BA V2 (18-19)

Lab Sample ID: 400-187320-24

Date Collected: 04/23/20 09:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 12:35	PMH	TAL PIT

Client Sample ID: DPT-7-SS BA V2 (18-19)

Lab Sample ID: 400-187320-24

Date Collected: 04/23/20 09:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:12	TAM	TAL PIT

Client Sample ID: DPT-7-SS BA V3 (27-28)

Lab Sample ID: 400-187320-25

Date Collected: 04/23/20 09:30

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 13:32	PMH	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-7-SS BA V3 (27-28)

Lab Sample ID: 400-187320-25

Date Collected: 04/23/20 09:30

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 57.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:14	TAM	TAL PIT

Client Sample ID: DPT-8-SS BA V2 (25-26)

Lab Sample ID: 400-187320-26

Date Collected: 04/24/20 07:45

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 14:29	PMH	TAL PIT

Client Sample ID: DPT-8-SS BA V2 (25-26)

Lab Sample ID: 400-187320-26

Date Collected: 04/24/20 07:45

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 66.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:19	TAM	TAL PIT

Client Sample ID: DPT-8-SS BA V3 (39-40)

Lab Sample ID: 400-187320-27

Date Collected: 04/24/20 07:50

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314330	05/01/20 15:26	PMH	TAL PIT

Client Sample ID: DPT-8-SS BA V3 (39-40)

Lab Sample ID: 400-187320-27

Date Collected: 04/24/20 07:50

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:21	TAM	TAL PIT

Client Sample ID: DPT-9-SS BA V2 (27-28)

Lab Sample ID: 400-187320-28

Date Collected: 04/24/20 12:10

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314337	04/30/20 19:50	PMH	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-9-SS BA V2 (27-28)

Lab Sample ID: 400-187320-28

Date Collected: 04/24/20 12:10

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:23	TAM	TAL PIT

Client Sample ID: DPT-9-SS BA V3 (32-33)

Lab Sample ID: 400-187320-29

Date Collected: 04/24/20 12:15

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314337	05/01/20 01:43	PMH	TAL PIT

Client Sample ID: DPT-9-SS BA V3 (32-33)

Lab Sample ID: 400-187320-29

Date Collected: 04/24/20 12:15

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:25	TAM	TAL PIT

Client Sample ID: DPT-10-SS BA V2 (22-23)

Lab Sample ID: 400-187320-30

Date Collected: 04/24/20 13:20

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314337	05/01/20 04:40	PMH	TAL PIT

Client Sample ID: DPT-10-SS BA V2 (22-23)

Lab Sample ID: 400-187320-30

Date Collected: 04/24/20 13:20

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:26	TAM	TAL PIT

Client Sample ID: DPT-10-SS BA V3 (25-26)

Lab Sample ID: 400-187320-31

Date Collected: 04/24/20 13:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314337	05/01/20 07:36	PMH	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-10-SS BA V3 (25-26)

Lab Sample ID: 400-187320-31

Date Collected: 04/24/20 13:25

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314620	05/05/20 14:47	TAM	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314627	05/05/20 17:28	TAM	TAL PIT

Client Sample ID: DUP-01

Lab Sample ID: 400-187320-32

Date Collected: 04/21/20 00:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314337	05/01/20 10:33	PMH	TAL PIT

Client Sample ID: DUP-01

Lab Sample ID: 400-187320-32

Date Collected: 04/21/20 00:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:27	CMR	TAL PIT

Client Sample ID: DUP-02

Lab Sample ID: 400-187320-33

Date Collected: 04/21/20 00:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	314337	05/01/20 13:30	PMH	TAL PIT

Client Sample ID: DUP-02

Lab Sample ID: 400-187320-33

Date Collected: 04/21/20 00:00

Matrix: Sediment

Date Received: 04/28/20 08:49

Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SEM/AVS	Prep	AVSSEM			314515	05/04/20 11:30	CMR	TAL PIT
SEM/AVS	Analysis	EPA 9034		1	314525	05/04/20 13:29	CMR	TAL PIT

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 20:00	FLC	TAL SL

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 20:07	FLC	TAL SL

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 20:33	FLC	TAL SL

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 20:40	FLC	TAL SL

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 20:47	FLC	TAL SL

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 20:54	FLC	TAL SL

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 21:00	FLC	TAL SL

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469475	05/04/20 06:53	RJD	TAL SL

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 21:07	FLC	TAL SL

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469892	05/08/20 10:07	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 21:14	FLC	TAL SL

Client Sample ID: DUP-01

Lab Sample ID: 400-187320-43

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Client Sample ID: DUP-01

Date Collected: 04/21/20 00:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-43

Matrix: Solid

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 22:01	FLC	TAL SL

Client Sample ID: DUP-02

Date Collected: 04/21/20 00:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-44

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DUP-02

Date Collected: 04/21/20 00:00

Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-44

Matrix: Solid

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 22:34	FLC	TAL SL

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Metals

Prep Batch: 469892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	3050B	
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	3050B	
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	3050B	
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	3050B	
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	3050B	
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	3050B	
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	3050B	
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	3050B	
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	3050B	
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	3050B	
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	3050B	
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	3050B	
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	3050B	
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	3050B	
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	3050B	
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	3050B	
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	3050B	
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	3050B	
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	3050B	
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	3050B	
MB 160-469892/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-469892/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-469892/3-A	Lab Control Sample	Total/NA	Solid	3050B	
400-187320-12 MS	DPT-1-SS RA V2	Total/NA	Solid	3050B	
400-187320-12 MSD	DPT-1-SS RA V2	Total/NA	Solid	3050B	

Prep Batch: 469893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-43	DUP-01	Total/NA	Solid	3050B	
400-187320-44	DUP-02	Total/NA	Solid	3050B	
MB 160-469893/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-469893/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-469893/3-A	Lab Control Sample	Total/NA	Solid	3050B	
400-187320-43 MS	DUP-01	Total/NA	Solid	3050B	
400-187320-43 MSD	DUP-01	Total/NA	Solid	3050B	

Analysis Batch: 469984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	6020	469892
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	6020	469892
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	6020	469892
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	6020	469892
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	6020	469892
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	6020	469892
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	6020	469892
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	6020	469892
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	6020	469892
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	6020	469892
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	6020	469892
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	6020	469892
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	6020	469892

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Metals (Continued)

Analysis Batch: 469984 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	6020	469892
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	6020	469892
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	6020	469892
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	6020	469892
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	6020	469892
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	6020	469892
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	6020	469892
400-187320-43	DUP-01	Total/NA	Solid	6020	469893
400-187320-44	DUP-02	Total/NA	Solid	6020	469893
MB 160-469892/1-A	Method Blank	Total/NA	Solid	6020	469892
MB 160-469893/1-A	Method Blank	Total/NA	Solid	6020	469893
LCS 160-469892/2-A	Lab Control Sample	Total/NA	Solid	6020	469892
LCS 160-469893/2-A	Lab Control Sample	Total/NA	Solid	6020	469893
LCSSRM 160-469892/3-A	Lab Control Sample	Total/NA	Solid	6020	469892
LCSSRM 160-469893/3-A	Lab Control Sample	Total/NA	Solid	6020	469893
400-187320-12 MS	DPT-1-SS RA V2	Total/NA	Solid	6020	469892
400-187320-12 MSD	DPT-1-SS RA V2	Total/NA	Solid	6020	469892
400-187320-43 MS	DUP-01	Total/NA	Solid	6020	469893
400-187320-43 MSD	DUP-01	Total/NA	Solid	6020	469893

General Chemistry

Analysis Batch: 314330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-1	DPT-1-SS BA V2 (22-24)	Total/NA	Sediment	2540G	
400-187320-2	DPT-1-SS BA V3 (38-40)	Total/NA	Sediment	2540G	
400-187320-3	DPT-2-SS BA V2 (26-27)	Total/NA	Sediment	2540G	
400-187320-4	DPT-2-SS BA V3 (37-38)	Total/NA	Sediment	2540G	
400-187320-5	DPT-3-SS BA V2 (24-25)	Total/NA	Sediment	2540G	
400-187320-6	DPT-3-SS BA V3 (29-30)	Total/NA	Sediment	2540G	
400-187320-7	DPT-4-SS BA V2 (15-16)	Total/NA	Sediment	2540G	
400-187320-8	DPT-4-SS BA V3 (28-29)	Total/NA	Sediment	2540G	
400-187320-9	DPT-5-SS BA V2 (17-18)	Total/NA	Sediment	2540G	
400-187320-10	DPT-5-SS BA V3 (23-24)	Total/NA	Sediment	2540G	
400-187320-11	DPT-6-SS BA V2	Total/NA	Sediment	2540G	
400-187320-23	DPT-6-SS BA V3 (23-24)	Total/NA	Sediment	2540G	
400-187320-24	DPT-7-SS BA V2 (18-19)	Total/NA	Sediment	2540G	
400-187320-25	DPT-7-SS BA V3 (27-28)	Total/NA	Sediment	2540G	
400-187320-26	DPT-8-SS BA V2 (25-26)	Total/NA	Sediment	2540G	
400-187320-27	DPT-8-SS BA V3 (39-40)	Total/NA	Sediment	2540G	
180-105133-A-1 DU	Duplicate	Total/NA	Sediment	2540G	
180-105133-A-2 DU	Duplicate	Total/NA	Sediment	2540G	

Analysis Batch: 314337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-28	DPT-9-SS BA V2 (27-28)	Total/NA	Sediment	2540G	
400-187320-29	DPT-9-SS BA V3 (32-33)	Total/NA	Sediment	2540G	
400-187320-30	DPT-10-SS BA V2 (22-23)	Total/NA	Sediment	2540G	
400-187320-31	DPT-10-SS BA V3 (25-26)	Total/NA	Sediment	2540G	
400-187320-32	DUP-01	Total/NA	Sediment	2540G	
400-187320-33	DUP-02	Total/NA	Sediment	2540G	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

General Chemistry (Continued)

Analysis Batch: 314337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-28 DU	DPT-9-SS BA V2 (27-28)	Total/NA	Sediment	2540G	

Prep Batch: 314515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-1	DPT-1-SS BA V2 (22-24)	SEM/AVS	Sediment	AVSSEM	
400-187320-2	DPT-1-SS BA V3 (38-40)	SEM/AVS	Sediment	AVSSEM	
400-187320-3	DPT-2-SS BA V2 (26-27)	SEM/AVS	Sediment	AVSSEM	
400-187320-4	DPT-2-SS BA V3 (37-38)	SEM/AVS	Sediment	AVSSEM	
400-187320-5	DPT-3-SS BA V2 (24-25)	SEM/AVS	Sediment	AVSSEM	
400-187320-6	DPT-3-SS BA V3 (29-30)	SEM/AVS	Sediment	AVSSEM	
400-187320-7	DPT-4-SS BA V2 (15-16)	SEM/AVS	Sediment	AVSSEM	
400-187320-8	DPT-4-SS BA V3 (28-29)	SEM/AVS	Sediment	AVSSEM	
400-187320-32	DUP-01	SEM/AVS	Sediment	AVSSEM	
400-187320-33	DUP-02	SEM/AVS	Sediment	AVSSEM	
MB 180-314515/1-A	Method Blank	SEM/AVS	Sediment	AVSSEM	
LCS 180-314515/2-A	Lab Control Sample	SEM/AVS	Sediment	AVSSEM	
400-187320-1 MS	DPT-1-SS BA V2 (22-24)	SEM/AVS	Sediment	AVSSEM	
400-187320-1 MSD	DPT-1-SS BA V2 (22-24)	SEM/AVS	Sediment	AVSSEM	

Analysis Batch: 314525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-1	DPT-1-SS BA V2 (22-24)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-2	DPT-1-SS BA V3 (38-40)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-3	DPT-2-SS BA V2 (26-27)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-4	DPT-2-SS BA V3 (37-38)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-5	DPT-3-SS BA V2 (24-25)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-6	DPT-3-SS BA V3 (29-30)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-7	DPT-4-SS BA V2 (15-16)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-8	DPT-4-SS BA V3 (28-29)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-32	DUP-01	SEM/AVS	Sediment	EPA 9034	314515
400-187320-33	DUP-02	SEM/AVS	Sediment	EPA 9034	314515
MB 180-314515/1-A	Method Blank	SEM/AVS	Sediment	EPA 9034	314515
LCS 180-314515/2-A	Lab Control Sample	SEM/AVS	Sediment	EPA 9034	314515
400-187320-1 MS	DPT-1-SS BA V2 (22-24)	SEM/AVS	Sediment	EPA 9034	314515
400-187320-1 MSD	DPT-1-SS BA V2 (22-24)	SEM/AVS	Sediment	EPA 9034	314515

Prep Batch: 314620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-9	DPT-5-SS BA V2 (17-18)	SEM/AVS	Sediment	AVSSEM	
400-187320-10	DPT-5-SS BA V3 (23-24)	SEM/AVS	Sediment	AVSSEM	
400-187320-11	DPT-6-SS BA V2	SEM/AVS	Sediment	AVSSEM	
400-187320-23	DPT-6-SS BA V3 (23-24)	SEM/AVS	Sediment	AVSSEM	
400-187320-24	DPT-7-SS BA V2 (18-19)	SEM/AVS	Sediment	AVSSEM	
400-187320-25	DPT-7-SS BA V3 (27-28)	SEM/AVS	Sediment	AVSSEM	
400-187320-26	DPT-8-SS BA V2 (25-26)	SEM/AVS	Sediment	AVSSEM	
400-187320-27	DPT-8-SS BA V3 (39-40)	SEM/AVS	Sediment	AVSSEM	
400-187320-28	DPT-9-SS BA V2 (27-28)	SEM/AVS	Sediment	AVSSEM	
400-187320-29	DPT-9-SS BA V3 (32-33)	SEM/AVS	Sediment	AVSSEM	
400-187320-30	DPT-10-SS BA V2 (22-23)	SEM/AVS	Sediment	AVSSEM	
400-187320-31	DPT-10-SS BA V3 (25-26)	SEM/AVS	Sediment	AVSSEM	
MB 180-314620/1-A	Method Blank	SEM/AVS	Sediment	AVSSEM	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

General Chemistry (Continued)

Prep Batch: 314620 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-314620/2-A	Lab Control Sample	SEM/AVS	Sediment	AVSSEM	
400-187320-9 MS	DPT-5-SS BA V2 (17-18)	SEM/AVS	Sediment	AVSSEM	
400-187320-9 MSD	DPT-5-SS BA V2 (17-18)	SEM/AVS	Sediment	AVSSEM	

Analysis Batch: 314627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-9	DPT-5-SS BA V2 (17-18)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-10	DPT-5-SS BA V3 (23-24)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-11	DPT-6-SS BA V2	SEM/AVS	Sediment	EPA 9034	314620
400-187320-23	DPT-6-SS BA V3 (23-24)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-24	DPT-7-SS BA V2 (18-19)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-25	DPT-7-SS BA V3 (27-28)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-26	DPT-8-SS BA V2 (25-26)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-27	DPT-8-SS BA V3 (39-40)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-28	DPT-9-SS BA V2 (27-28)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-29	DPT-9-SS BA V3 (32-33)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-30	DPT-10-SS BA V2 (22-23)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-31	DPT-10-SS BA V3 (25-26)	SEM/AVS	Sediment	EPA 9034	314620
MB 180-314620/1-A	Method Blank	SEM/AVS	Sediment	EPA 9034	314620
LCS 180-314620/2-A	Lab Control Sample	SEM/AVS	Sediment	EPA 9034	314620
400-187320-9 MS	DPT-5-SS BA V2 (17-18)	SEM/AVS	Sediment	EPA 9034	314620
400-187320-9 MSD	DPT-5-SS BA V2 (17-18)	SEM/AVS	Sediment	EPA 9034	314620

Analysis Batch: 469475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	Moisture	
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	Moisture	
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	Moisture	
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	Moisture	
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	Moisture	
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	Moisture	
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	Moisture	
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	Moisture	
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	Moisture	
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	Moisture	
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	Moisture	
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	Moisture	
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	Moisture	
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	Moisture	
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	Moisture	
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	Moisture	
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	Moisture	
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	Moisture	
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	Moisture	
160-37907-D-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 469480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	Moisture	
400-187320-43	DUP-01	Total/NA	Solid	Moisture	
400-187320-44	DUP-02	Total/NA	Solid	Moisture	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

General Chemistry (Continued)

Analysis Batch: 469480 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-42 DU	DPT-10-SS RA V3	Total/NA	Solid	Moisture	

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-469892/1-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.0893	U	0.198	0.0893	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Uranium	0.0397	U	0.0992	0.0397	mg/Kg		05/08/20 10:07	05/08/20 17:39	2

Lab Sample ID: LCS 160-469892/2-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thorium	98.0	105.7		mg/Kg		108	80 - 120

Lab Sample ID: LCSSRM 160-469892/3-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469892

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	22.5	24.90		mg/Kg		110.7	68.0 - 132.4

Lab Sample ID: 400-187320-12 MS
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: DPT-1-SS RA V2
Prep Type: Total/NA
Prep Batch: 469892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thorium	3.20		111	120.6		mg/Kg	☼	106	75 - 125
Uranium	0.564		111	115.6		mg/Kg	☼	104	75 - 125

Lab Sample ID: 400-187320-12 MSD
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: DPT-1-SS RA V2
Prep Type: Total/NA
Prep Batch: 469892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Thorium	3.20		127	134.2		mg/Kg	☼	103	75 - 125	11	30
Uranium	0.564		127	131.9		mg/Kg	☼	103	75 - 125	13	30

Lab Sample ID: MB 160-469893/1-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.0894	U	0.199	0.0894	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Uranium	0.0397	U	0.0993	0.0397	mg/Kg		05/08/20 10:12	05/08/20 21:20	2

Lab Sample ID: LCS 160-469893/2-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thorium	95.5	99.53		mg/Kg		104	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-469893/3-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469893
%Rec.

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Uranium	22.5	24.79		mg/Kg		110.2	68.0 - 132.4

Lab Sample ID: 400-187320-43 MS
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 469893
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Thorium	0.203	J	126	131.1		mg/Kg	☼	104	75 - 125
Uranium	0.0437	U	126	131.7		mg/Kg	☼	104	75 - 125

Lab Sample ID: 400-187320-43 MSD
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 469893
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Thorium	0.203	J	119	118.0		mg/Kg	☼	99	75 - 125	11	30
Uranium	0.0437	U	119	118.2		mg/Kg	☼	100	75 - 125	11	30

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-314515/1-A
Matrix: Sediment
Analysis Batch: 314525

Client Sample ID: Method Blank
Prep Type: SEM/AVS
Prep Batch: 314515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.00	U	15.0	5.00	mg/Kg		05/04/20 11:30	05/04/20 12:59	1

Lab Sample ID: LCS 180-314515/2-A
Matrix: Sediment
Analysis Batch: 314525

Client Sample ID: Lab Control Sample
Prep Type: SEM/AVS
Prep Batch: 314515
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acid Volatile Sulfides (AVS)	62.9	57.35		mg/Kg		91	85 - 115

Lab Sample ID: 400-187320-1 MS
Matrix: Sediment
Analysis Batch: 314525

Client Sample ID: DPT-1-SS BA V2 (22-24)
Prep Type: SEM/AVS
Prep Batch: 314515
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acid Volatile Sulfides (AVS)	6.55	U F1	82.7	55.20	F1	mg/Kg	☼	67	75 - 125

Lab Sample ID: 400-187320-1 MSD
Matrix: Sediment
Analysis Batch: 314525

Client Sample ID: DPT-1-SS BA V2 (22-24)
Prep Type: SEM/AVS
Prep Batch: 314515
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acid Volatile Sulfides (AVS)	6.55	U F1	82.3	59.11	F1	mg/Kg	☼	72	75 - 125	7	20

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: MB 180-314620/1-A
Matrix: Sediment
Analysis Batch: 314627

Client Sample ID: Method Blank
Prep Type: SEM/AVS
Prep Batch: 314620

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acid Volatile Sulfides (AVS)	5.00	U	15.0	5.00	mg/Kg		05/05/20 14:47	05/05/20 16:58	1

Lab Sample ID: LCS 180-314620/2-A
Matrix: Sediment
Analysis Batch: 314627

Client Sample ID: Lab Control Sample
Prep Type: SEM/AVS
Prep Batch: 314620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acid Volatile Sulfides (AVS)	50.8	45.81		mg/Kg		90	85 - 115

Lab Sample ID: 400-187320-9 MS
Matrix: Sediment
Analysis Batch: 314627

Client Sample ID: DPT-5-SS BA V2 (17-18)
Prep Type: SEM/AVS
Prep Batch: 314620

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acid Volatile Sulfides (AVS)	6.59	U F1	67.1	51.16		mg/Kg	✳	76	75 - 125

Lab Sample ID: 400-187320-9 MSD
Matrix: Sediment
Analysis Batch: 314627

Client Sample ID: DPT-5-SS BA V2 (17-18)
Prep Type: SEM/AVS
Prep Batch: 314620

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acid Volatile Sulfides (AVS)	6.59	U F1	66.7	44.96	F1	mg/Kg	✳	67	75 - 125	13	20

Chain of Custody Record



Environment Testing
 TestAmerica

Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colomade Parkway Bin 530 EC City: Birmingham State: AL, Zip: 35243 Phone: 205-992-6283(Tel) Email: laparker@southernco.com Project Name: Plant Watson Site: Plant Watson		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com C-Number: 400-93871-34057.5 Page: Page 5 of 6 Job #:	
Due Date Requested: 4/27/2020 TAT Requested (days): pergnuk		Carmer Tracking No(s): Analysis Requested:	
PO #: SCS10382606 WO #:		Preservation Codes: M - Hexane 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 DPT-1-55 Ba U2 (22-24) DPT-1-55 Ba U3 (38-40) DPT-2-55 Ba U2 (20-27) DPT-2-55 Ba U3 (37-38) DPT-3-55 Ba U2 (24-25) DPT-3-55 Ba U3 (29-30) DPT-4-55 Ba U2 (15-16) DPT-4-55 Ba U3 (28-29) DPT-5-55 Ba U2 (17-18) DPT-5-55 Ba U3 (23-24) DPT-6-55 Ba U2		Field Filtered Sample (Yes or No) / Matrix (Newater, Seawater, Wastewater, BT Tissue, A-Air) 9034 Calc. AVS Moisture / 9315 Ra226, 9320 Ra228 / 6020 Uranium & Thorium / R26Ra228 GFC - Combined Radium-226 and Radium-228 / Moisture - Percent Moisture / 9315 Ra226 - Radium 226 / R26Ra228 GFC - Radium 226 + Radium 228	
Sample Date / Sample Time / Sample Type (C=Comp, G=grab) / Preservation Code 4/20/20 1555 / G / Solid ↓ / 1600 / Solid 4/21/20 1100 / Solid ↓ / 1105 / Solid ↓ / 1470 / Solid ↓ / 1475 / Solid ↓ / 1755 / Solid ↓ / 1745 / Solid 4/22/20 1125 / Solid ↓ / 1130 / Solid ↓ / 1500 / Solid		Total Number of Containers: 400-187320 COC Special Instructions/Note: Baton Rouge 218	
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, III, IV, Other (specify)			
Empty Kit Relinquished by:			
Relinquished by: [Signature] Date: 4-27-20 0600 Company: GSI		Received by: [Signature] Date: 4/27/2020 1145 Company: FTA	
Relinquished by: [Signature] Date: 4-27-20 1145 Company: GSI		Received by: [Signature] Date: 4/28/20 849 Company: FTA	
Relinquished by: [Signature] Date: 4/27/2020 849 Company: FTA		Received by: [Signature] Date: 4/28/20 849 Company: FTA	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 2.8°C JCG	

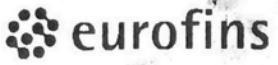
Chain of Custody Record



Environment Testing
TestAmerica

Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 (Tel) Email: laparker@southernco.com Project Name: Plant Watson Site: Plant Watson		Lab PM: Whitmire, Chyenne R. E-Mail: chyenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-93871-34057.5 Page: Page 5 of 6 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 40001674 SSOW#:		Analysis Requested 9024_Calc_AVS_Moisture 90315_Ra226_9320_Ra228 6020_Uranium & Thorium Ra226Ra228_GFP_Combined Radium-226 and Radium-228 Moisture - Percent Moisture 9315_Ra226 - Radium 226 9320_Ra228 - Radium 228 Ra226Ra228_GFP_C - Radium 226 + Radium 228 Total Number of Containers	
Sample Identification DPT-7-SS Ba U3 (23-24) DPT-7-SS Ba U2 (18-19) DPT-7-SS Ba U3 (27-28) DPT-8-SS Ba U2 (25-26) DPT-8-SS Ba U3 (39-40) DPT-9-SS Ba U2 (27-28) DPT-9-SS Ba U3 (32-33) DPT-10-SS Ba U2 (22-23) DPT-10-SS Ba U3 (25-26) DPT-01 DPT-02		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 9034_Calc_AVS_Moisture 904500_SO4_E - Sulfate, Total 904500_SO2_D - Sulfide, Total 9315_Ra226_9320_Ra228 6020_Uranium & Thorium Ra226Ra228_GFP_Combined Radium-226 and Radium-228 Moisture - Percent Moisture 9315_Ra226 - Radium 226 9320_Ra228 - Radium 228 Ra226Ra228_GFP_C - Radium 226 + Radium 228 Total Number of Containers	
Sample Date 4/22/20 4/23/20 4/24/20 4/24/20 4/24/20 4/24/20 4/24/20 4/24/20 4/24/20		Sample Time 1505 0925 0930 0745 0750 1210 1215 1320 1325 0100 0000	
Sample Type (C=Comp, G=grab) G G G G G G G G G G G		Matrix (W=water, S=solid, O=soil, B=bitumen, A=air) Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	
Preservation Code: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - EDTA Y - EDTA Z - other (specify)		Special Instructions/Note: Baton Rouge 218	
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: [Signature] Date/Time: 4-27-20 600		Received by: [Signature] Date/Time: 4-27-20 145	
Relinquished by: [Signature] Date/Time: 4-27-20 1145		Received by: [Signature] Date/Time: 4/27/20 145	
Relinquished by: [Signature] Date/Time: 4/27/20 3x		Received by: [Signature] Date/Time: 4/29/20 849	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

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**Environment Testing
TestAmerica**

Part # 150468-43a RIT 10/14 565C1/CC03/0542

ORIGIN ID:PNSA (850) 474-1001
 SAMPLE RECEIVING
 TEST AMERICA PENSACOLA
 3355 MCLEMORE DR

SHIP DATE: 28APR20
 ACTWGT: 45.90 LB
 CAD: 0823943/CAFE3311

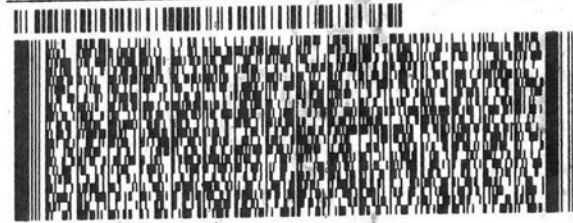
PENSACOLA, FL 32514
 UNITED STATES US

BILL SENDER

**TO SAMPLE CONTROL
 TESTAMERICA PITTSBURGH
 301 ALPHA DRIVE
 RIDC PARK
 PITTSBURGH PA 15238**

(412) 963-7068
 INU: PO:

REF: DEPT:



**WED - 29 APR 10:30A
 PRIORITY OVERNIGHT**

TRK# 1482 3804 4201
 0201

XH AGCA

**15238
 PA-US PIT**

Uncorrected temp 4.8 °C
 Thermometer ID 17
 CF 0 Initials JB



PT-WI-SR-001 effective 7/26/13

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Whitmire, Chylene R	Carrier Tracking No(s):	COC No: 400-242230.1						
Client Contact: Shipping/Receiving		E-Mail: cheylene.whitmire@testamericainc.com	State of Origin: Mississippi	Page: Page 1 of 3						
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):	Job #: 400-187320-1							
Address: 13715 Rider Trail North,		Due Date Requested: 4/30/2020	Preservation Codes:							
City: Earth City		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: MO, 63045		PO #:	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)							
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:								
Email:		Project #:								
Plant Name: Plant Watson		40001674								
Site:		SSOW#:								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=swab/roll, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6020/3050B 2% Uranium & Thorium	Total Number of Containers	Special Instructions/Note:
DPT-1-SS RA V2 (400-187320-12)	4/20/20	15:55 Central	Solid	Solid	X	X	X	X	2	
DPT-1-SS RA V3 (400-187320-13)	4/20/20	16:00 Central	Solid	Solid	X	X	X	X	2	
DPT-2-SS RA V2 (400-187320-14)	4/21/20	11:00 Central	Solid	Solid	X	X	X	X	2	
DPT-2-SS RA V3 (400-187320-15)	4/21/20	11:05 Central	Solid	Solid	X	X	X	X	2	
DPT-3-SS RA V2 (400-187320-16)	4/21/20	14:20 Central	Solid	Solid	X	X	X	X	2	
DPT-3-SS RA V3 (400-187320-17)	4/21/20	14:25 Central	Solid	Solid	X	X	X	X	2	
DPT-4-SS RA V2 (400-187320-18)	4/21/20	17:55 Central	Solid	Solid	X	X	X	X	2	
DPT-4-SS RA V3 (400-187320-19)	4/21/20	17:45 Central	Solid	Solid	X	X	X	X	2	
DPT-5-SS RA V2 (400-187320-20)	4/22/20	11:25 Central	Solid	Solid	X	X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

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: *Kevin R. Owen* Date/Time: 4-28-20 16:20 Company: ETA
 Relinquished by: FE Date/Time: 4-29-20 09:03 Company: ETA STL
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record



Environment Testing
 TestAmerica

Client Information (Sub Contract Lab)		Lab P/N: Whitmire, Cheyenne R	Carrier Tracking No(s): 400-242230.2			
Client Contact: TestAmerica Laboratories, Inc.		E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Mississippi			
Shipping/Receiving		Accreditations Required (See note):	Page: Page 2 of 3			
Company: TestAmerica Laboratories, Inc.		Project #: 40001674	Job #: 400-187320-1			
Address: 13715 Rider Trail North, Earth City, MO, 63045		SSOW#:	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 - EDTA Z - other (specify) Other:			
Due Date Requested: 4/30/2020		Analysis Requested				
TAT Requested (days):		Total Number of Containers				
PO #: 314-298-8566(Tel) 314-298-8757(Fax)		6020/3050B 2% Uranium & Thorium				
WO #:		Moisture/Percent Moisture				
Project Name: Plant Watson		Perform MS/MSD (Yes or No)				
Site:		Field Filtered Sample (Yes or No)				
		Preservation Code:				
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT= tissue, A=air)	Total Number of Containers	Special Instructions/Note:
DPT-5-SS RA V3 (400-187320-21)	4/22/20	11:30 Central	Solid	Solid	2	
DPT-6-SS RA V2 (400-187320-22)	4/22/20	15:00 Central	Solid	Solid	2	
DPT-6-SS RA V3 (400-187320-34)	4/22/20	15:05 Central	Solid	Solid	2	
DPT-7-SS RA V2 (400-187320-35)	4/23/20	09:25 Central	Solid	Solid	2	
DPT-7-SS RA V3 (400-187320-36)	4/23/20	09:30 Central	Solid	Solid	2	
DPT-8-SS RA V2 (400-187320-37)	4/24/20	07:45 Central	Solid	Solid	2	
DPT-8-SS RA V3 (400-187320-38)	4/24/20	07:50 Central	Solid	Solid	2	
DPT-9-SS RA V2 (400-187320-39)	4/24/20	12:10 Central	Solid	Solid	2	
DPT-9-SS RA V3 (400-187320-40)	4/24/20	12:15 Central	Solid	Solid	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/thesis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: 4-28-20 1620
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ 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: _____

Received by: *FE*
 Received by: *MDA/whitmire*
 Date/Time: 4/29/2020 09:03
 Date/Time: _____
 Date/Time: _____
 Date/Time: _____
 Company: ERA SN
 Company: _____
 Company: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Chain of Custody Record

urofins

Environment Testing
 TestAmerica



Client Contact: **Whitmore, Cheyenne R.**
 Shipping/Receiving
 Lab PM: **Whitmore, Cheyenne R.**
 Phone: **cheyenne.whitmore@test.com**
 Job #: **400-187320-1**
 Page 1 of 3

Company: **TestAmerica Laboratories, Inc.**
 Address: **301 Alpha Drive, RIDC Park, Pittsburgh, PA, 15238**
 State, Zip: **PA, 15238**
 Phone: **412-963-7058(Tel) 412-963-2468(Fax)**
 Email:
 Project Name: **Plant Watson**
 Project #: **40001674**
 SOW#: **40001674**

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wateroil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034 Calc AVS/ASSEM Prep AVS	Moture/ Percent Moisture	Total Number of containers	Special Instructions/Note:
DPT-1-SS BA V2 (22-24) (400-187320-1)	4/20/20	15:55 Central	Sediment	Sediment	X	X	X	X	1	
DPT-1-SS BA V3 (38-40) (400-187320-2)	4/20/20	16:00 Central	Sediment	Sediment	X	X	X	X	1	
DPT-2-SS BA V2 (26-27) (400-187320-3)	4/21/20	11:00 Central	Sediment	Sediment	X	X	X	X	1	
DPT-2-SS BA V3 (37-38) (400-187320-4)	4/21/20	11:05 Central	Sediment	Sediment	X	X	X	X	1	
DPT-3-SS BA V2 (24-25) (400-187320-5)	4/21/20	14:20 Central	Sediment	Sediment	X	X	X	X	1	
DPT-3-SS BA V3 (29-30) (400-187320-6)	4/21/20	14:25 Central	Sediment	Sediment	X	X	X	X	1	
DPT-4-SS BA V2 (15-16) (400-187320-7)	4/21/20	17:55 Central	Sediment	Sediment	X	X	X	X	1	
DPT-4-SS BA V3 (28-29) (400-187320-8)	4/21/20	17:45 Central	Sediment	Sediment	X	X	X	X	1	
DPT-5-SS BA V2 (17-18) (400-187320-9)	4/22/20	11:25 Central	Sediment	Sediment	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2
 Date: _____
 Method of Shipment: _____
 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: _____
 Relinquished by: *Kathy Carver* Date/Time: *4-28-20 1600* Company: *ETA*
 Relinquished by: *D Watson* Date/Time: *4-29-20* Company: *ETA*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes No Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PVI: Whitmire, Cheyenne R		Carrier Tracking No(s): 400-242229.2							
Client Contact: Shipping/Receiving		E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 2 of 3							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 400-187320-1							
Address: 301 Alpha Drive, RIDC Park, Pitsburgh, PA, 15238		Due Date Requested: 4/29/2020		Preservation Codes:							
Phone: 412-963-7058 (Tel) 412-963-2468 (Fax)		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:							
Email:		PO #:		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)							
Project Name: Plant Watson		WO #:		Total Number of Containers							
Site:		Project #: 40001674		Special Instructions/Note:							
		SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wateroil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	934 Calc AVS/AVSEM Prep AVS	Moisture/Percent Moisture	Analysis Requested	Total Number of Containers	Special Instructions/Note:
DPT-5-SS BA V3 (23-24) (400-187320-10)	4/22/20	11:30 Central		Sediment	X	X	X			1	
DPT-6-SS BA V2 (400-187320-11)	4/22/20	15:00 Central		Sediment	X	X	X			1	
DPT-6-SS BA V3 (23-24) (400-187320-23)	4/22/20	15:05 Central		Sediment	X	X	X			1	
DPT-7-SS BA V2 (18-19) (400-187320-24)	4/23/20	09:25 Central		Sediment	X	X	X			1	
DPT-7-SS BA V3 (27-28) (400-187320-25)	4/23/20	09:30 Central		Sediment	X	X	X			1	
DPT-8-SS BA V2 (25-26) (400-187320-26)	4/24/20	07:45 Central		Sediment	X	X	X			1	
DPT-8-SS BA V3 (39-40) (400-187320-27)	4/24/20	07:50 Central		Sediment	X	X	X			1	
DPT-9-SS BA V2 (27-28) (400-187320-28)	4/24/20	12:10 Central		Sediment	X	X	X			1	
DPT-9-SS BA V3 (32-33) (400-187320-29)	4/24/20	12:15 Central		Sediment	X	X	X			1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Primary Deliverable Rank: 2		Method of Shipment:	
Empty Kit Relinquished by:		Date:	
Relinquished by: <i>Kathy Rawan</i>		Date/Time: 4-28-20 1600	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Received by: <i>D. Wabson</i>		Date/Time: 4-29-20	
Company: <i>ETA</i>		Company: <i>ETA</i>	
Received by:		Date/Time:	
Received by:		Date/Time:	
Received by:		Date/Time:	



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Whitimire, Cheyenne R		Carrier Tracking No(s): 400-242229.3					
Client Contact: Shipping/Receiving		E-Mail: cheyenne.whitimire@testamericainc.com		State of Origin: Mississippi					
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Page: 3 of 3					
Address: 301 Alpha Drive, RIDC Park, Pittsburgh, PA, 15238		Due Date Requested: 4/29/2020		Job #: 400-187320-1					
Phone: 412-963-7058(Tel) 412-963-2468(Fax)		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:					
Project Name: Plant Watson		Project #: 40001674		M - Hexane N - None O - AshAO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)					
Site:		SSOW#:		Total Number of Containers					
Sample Identification - Client ID (Lab ID)	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)	9034 Calc AVS/AVSSEM Prep AVS	Moture/ Percent Moisture	Analysis Requested
DPT-10-SS BA V2 (22-23) (400-187320-30)	4/24/20	13:20 Central		Sediment	X	X	X	X	
DPT-10-SS BA V3 (25-26) (400-187320-31)	4/24/20	13:25 Central		Sediment	X	X	X	X	
DUP-01 (400-187320-32)	4/21/20	Central		Sediment	X	X	X	X	
DUP-02 (400-187320-33)	4/21/20	Central		Sediment	X	X	X	X	
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix, being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>									
<p>Possible Hazard Identification <input type="checkbox"/> Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p>									
<p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p>									
<p>Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____</p>									
<p>Relinquished by: <i>Kathy R. Queen</i> Date/Time: 4-28-20 1600 Company: ETA Company</p>									
<p>Relinquished by: _____ Date/Time: _____ Company: _____</p>									
<p>Relinquished by: _____ Date/Time: _____ Company: _____</p>									
<p>Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____</p>									



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-1

SDG Number: Plant Watson

Login Number: 187320

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

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, 2.8°C IR-9
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	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-1

SDG Number: Plant Watson

Login Number: 187320

List Number: 2

Creator: Watson, Debbie

List Source: Eurofins TestAmerica, Pittsburgh

List Creation: 04/29/20 04:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-1

SDG Number: Plant Watson

Login Number: 187320

List Number: 3

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/29/20 09:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No ice present upon receipt.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20 *
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20 *
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-20 *
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20 *
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20 *
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-1
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

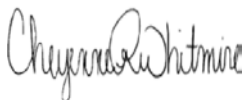
ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-187320-2
Laboratory Sample Delivery Group: Plant Watson
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
6/19/2020 1:13:34 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.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Job ID: 400-187320-2

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-187320-2

RAD

Method 9315: Radium-226 Prep Batch 160-469589. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DPT-1-SS RA V2 (400-187320-12), DPT-1-SS RA V3 (400-187320-13), DPT-2-SS RA V2 (400-187320-14), DPT-2-SS RA V3 (400-187320-15), DPT-3-SS RA V2 (400-187320-16), DPT-3-SS RA V3 (400-187320-17), DPT-4-SS RA V2 (400-187320-18), DPT-4-SS RA V3 (400-187320-19), DPT-5-SS RA V2 (400-187320-20), DPT-5-SS RA V3 (400-187320-21), DPT-6-SS RA V2 (400-187320-22), DPT-6-SS RA V3 (400-187320-34), DPT-7-SS RA V2 (400-187320-35), DPT-7-SS RA V3 (400-187320-36), DPT-8-SS RA V2 (400-187320-37), DPT-8-SS RA V3 (400-187320-38), DPT-9-SS RA V2 (400-187320-39), DPT-9-SS RA V3 (400-187320-40), DPT-10-SS RA V2 (400-187320-41), DPT-10-SS RA V3 (400-187320-42), (LCS 160-469589/1-A), (MB 160-469589/23-A) and (400-187320-A-12-B DU)

Method 9315: Ra-226 Prep Batch 160-469806. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DUP-01 (400-187320-43), DUP-02 (400-187320-44), (LCS 160-469806/1-A), (MB 160-469806/11-A) and (400-187320-A-43-G DU)

Method 9320: Ra-228 Prep Batch 160-469648. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DPT-1-SS RA V2 (400-187320-12), DPT-1-SS RA V3 (400-187320-13), DPT-2-SS RA V2 (400-187320-14), DPT-2-SS RA V3 (400-187320-15), DPT-3-SS RA V2 (400-187320-16), DPT-3-SS RA V3 (400-187320-17), DPT-4-SS RA V2 (400-187320-18), DPT-4-SS RA V3 (400-187320-19), DPT-5-SS RA V2 (400-187320-20), DPT-5-SS RA V3 (400-187320-21), DPT-6-SS RA V2 (400-187320-22), DPT-6-SS RA V3 (400-187320-34), DPT-7-SS RA V2 (400-187320-35), DPT-7-SS RA V3 (400-187320-36), DPT-8-SS RA V2 (400-187320-37), DPT-8-SS RA V3 (400-187320-38), DPT-9-SS RA V2 (400-187320-39), DPT-9-SS RA V3 (400-187320-40), DPT-10-SS RA V2 (400-187320-41), DPT-10-SS RA V3 (400-187320-42), (LCS 160-469648/1-A), (MB 160-469648/23-A) and (400-187320-A-12-D DU)

Method 9320: Radium-228 Prep Batch: 160-469808. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DUP-01 (400-187320-43), DUP-02 (400-187320-44), (LCS 160-469808/1-A), (MB 160-469808/11-A) and (400-187320-A-43-I DU)

Method DPS-0: 400-187320-43 precipitated a very small pellet during into ingrowth. All samples will be re-prepped. DUP-01 (400-187320-43), DUP-02 (400-187320-44) and (400-187320-A-43 DU)

Method DPS-21: 400-187320-43 precipitated a very small pellet during into ingrowth. All samples will be re-prepped. DUP-01 (400-187320-43) and DUP-02 (400-187320-44)

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

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
DPS-0	Preparation, Digestion/ Precipitate	None	TAL SL
DPS-21	Preparation, Digestion/Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187320-12	DPT-1-SS RA V2	Solid	04/20/20 15:55	04/28/20 08:49	
400-187320-13	DPT-1-SS RA V3	Solid	04/20/20 16:00	04/28/20 08:49	
400-187320-14	DPT-2-SS RA V2	Solid	04/21/20 11:00	04/28/20 08:49	
400-187320-15	DPT-2-SS RA V3	Solid	04/21/20 11:05	04/28/20 08:49	
400-187320-16	DPT-3-SS RA V2	Solid	04/21/20 14:20	04/28/20 08:49	
400-187320-17	DPT-3-SS RA V3	Solid	04/21/20 14:25	04/28/20 08:49	
400-187320-18	DPT-4-SS RA V2	Solid	04/21/20 17:55	04/28/20 08:49	
400-187320-19	DPT-4-SS RA V3	Solid	04/21/20 17:45	04/28/20 08:49	
400-187320-20	DPT-5-SS RA V2	Solid	04/22/20 11:25	04/28/20 08:49	
400-187320-21	DPT-5-SS RA V3	Solid	04/22/20 11:30	04/28/20 08:49	
400-187320-22	DPT-6-SS RA V2	Solid	04/22/20 15:00	04/28/20 08:49	
400-187320-34	DPT-6-SS RA V3	Solid	04/22/20 15:05	04/28/20 08:49	
400-187320-35	DPT-7-SS RA V2	Solid	04/23/20 09:25	04/28/20 08:49	
400-187320-36	DPT-7-SS RA V3	Solid	04/23/20 09:30	04/28/20 08:49	
400-187320-37	DPT-8-SS RA V2	Solid	04/24/20 07:45	04/28/20 08:49	
400-187320-38	DPT-8-SS RA V3	Solid	04/24/20 07:50	04/28/20 08:49	
400-187320-39	DPT-9-SS RA V2	Solid	04/24/20 12:10	04/28/20 08:49	
400-187320-40	DPT-9-SS RA V3	Solid	04/24/20 12:15	04/28/20 08:49	
400-187320-41	DPT-10-SS RA V2	Solid	04/24/20 13:20	04/28/20 08:49	
400-187320-42	DPT-10-SS RA V3	Solid	04/24/20 13:25	04/28/20 08:49	
400-187320-43	DUP-01	Solid	04/21/20 00:00	04/28/20 08:49	
400-187320-44	DUP-02	Solid	04/21/20 00:00	04/28/20 08:49	

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.315		0.106	0.110	1.00	0.0887	pCi/g	05/05/20 12:32	05/28/20 04:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					05/05/20 12:32	05/28/20 04:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.608		0.275	0.280	1.00	0.397	pCi/g	05/05/20 13:22	05/20/20 15:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					05/05/20 13:22	05/20/20 15:37	1
Y Carrier	84.1		40 - 110					05/05/20 13:22	05/20/20 15:37	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.923		0.29	0.30	5.00	0.397	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.272		0.101	0.104	1.00	0.0883	pCi/g	05/05/20 12:32	05/28/20 04:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					05/05/20 12:32	05/28/20 04:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.515		0.288	0.292	1.00	0.434	pCi/g	05/05/20 13:22	05/20/20 15:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					05/05/20 13:22	05/20/20 15:37	1
Y Carrier	82.2		40 - 110					05/05/20 13:22	05/20/20 15:37	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.786		0.305	0.310	5.00	0.434	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.706		0.177	0.188	1.00	0.149	pCi/g	05/05/20 12:32	05/28/20 04:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.5		40 - 110					05/05/20 12:32	05/28/20 04:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.840		0.309	0.318	1.00	0.412	pCi/g	05/05/20 13:22	05/20/20 15:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.5		40 - 110					05/05/20 13:22	05/20/20 15:37	1
Y Carrier	84.1		40 - 110					05/05/20 13:22	05/20/20 15:37	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.55		0.356	0.369	5.00	0.412	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00380	U	0.0477	0.0477	1.00	0.0991	pCi/g	05/05/20 12:32	05/28/20 04:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					05/05/20 12:32	05/28/20 04:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.158	U	0.221	0.222	1.00	0.370	pCi/g	05/05/20 13:22	05/20/20 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					05/05/20 13:22	05/20/20 15:38	1
Y Carrier	87.5		40 - 110					05/05/20 13:22	05/20/20 15:38	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	0.162	U	0.226	0.227	5.00	0.370	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.510		0.130	0.138	1.00	0.0879	pCi/g	05/05/20 12:32	05/28/20 04:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					05/05/20 12:32	05/28/20 04:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.760		0.274	0.283	1.00	0.368	pCi/g	05/05/20 13:22	05/20/20 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					05/05/20 13:22	05/20/20 15:38	1
Y Carrier	79.6		40 - 110					05/05/20 13:22	05/20/20 15:38	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	1.27		0.303	0.315	5.00	0.368	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0467	U	0.0724	0.0726	1.00	0.124	pCi/g	05/05/20 12:32	05/28/20 04:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					05/05/20 12:32	05/28/20 04:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.144	U	0.204	0.204	1.00	0.341	pCi/g	05/05/20 13:22	05/20/20 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					05/05/20 13:22	05/20/20 15:38	1
Y Carrier	86.4		40 - 110					05/05/20 13:22	05/20/20 15:38	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	0.191	U	0.216	0.217	5.00	0.341	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.292		0.0995	0.103	1.00	0.0829	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.2		40 - 110					05/05/20 12:32	05/28/20 04:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.428		0.208	0.212	1.00	0.297	pCi/g	05/05/20 13:22	05/20/20 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.2		40 - 110					05/05/20 13:22	05/20/20 15:38	1
Y Carrier	87.5		40 - 110					05/05/20 13:22	05/20/20 15:38	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	0.721		0.231	0.236	5.00	0.297	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

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	0.0547	0.0548	1.00	0.0931	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		40 - 110					05/05/20 12:32	05/28/20 04:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.123	U	0.257	0.257	1.00	0.438	pCi/g	05/05/20 13:22	05/20/20 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		40 - 110					05/05/20 13:22	05/20/20 15:38	1
Y Carrier	86.0		40 - 110					05/05/20 13:22	05/20/20 15:38	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	0.162	U	0.263	0.263	5.00	0.438	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.307		0.104	0.107	1.00	0.0849	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					05/05/20 12:32	05/28/20 04:35	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	U	0.259	0.261	1.00	0.405	pCi/g	05/05/20 13:22	05/20/20 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					05/05/20 13:22	05/20/20 15:39	1
Y Carrier	84.1		40 - 110					05/05/20 13:22	05/20/20 15:39	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	0.661		0.279	0.282	5.00	0.405	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.133		0.0779	0.0788	1.00	0.0875	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.9		40 - 110					05/05/20 12:32	05/28/20 04:35	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	0.252	0.253	1.00	0.410	pCi/g	05/05/20 13:22	05/20/20 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.9		40 - 110					05/05/20 13:22	05/20/20 15:39	1
Y Carrier	83.0		40 - 110					05/05/20 13:22	05/20/20 15:39	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	0.370	U	0.264	0.265	5.00	0.410	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.475		0.127	0.134	1.00	0.0858	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					05/05/20 12:32	05/28/20 04:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.767		0.295	0.303	1.00	0.403	pCi/g	05/05/20 13:22	05/20/20 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					05/05/20 13:22	05/20/20 15:39	1
Y Carrier	78.5		40 - 110					05/05/20 13:22	05/20/20 15:39	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	1.24		0.321	0.331	5.00	0.403	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0201	U	0.0452	0.0452	1.00	0.0852	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					05/05/20 12:32	05/28/20 04:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00443	U	0.218	0.218	1.00	0.392	pCi/g	05/05/20 13:22	05/20/20 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					05/05/20 13:22	05/20/20 15:39	1
Y Carrier	84.5		40 - 110					05/05/20 13:22	05/20/20 15:39	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	0.0245	U	0.223	0.223	5.00	0.392	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.433		0.123	0.129	1.00	0.0873	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					05/05/20 12:32	05/28/20 04:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.547		0.294	0.298	1.00	0.444	pCi/g	05/05/20 13:22	05/20/20 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					05/05/20 13:22	05/20/20 15:39	1
Y Carrier	86.4		40 - 110					05/05/20 13:22	05/20/20 15:39	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	0.980		0.319	0.325	5.00	0.444	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.333		0.108	0.112	1.00	0.0904	pCi/g	05/05/20 12:32	05/28/20 04:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					05/05/20 12:32	05/28/20 04:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.406		0.260	0.263	1.00	0.400	pCi/g	05/05/20 13:22	05/20/20 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					05/05/20 13:22	05/20/20 15:39	1
Y Carrier	84.9		40 - 110					05/05/20 13:22	05/20/20 15:39	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	0.739		0.282	0.286	5.00	0.400	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.311		0.109	0.112	1.00	0.0993	pCi/g	05/05/20 12:32	05/28/20 04:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					05/05/20 12:32	05/28/20 04:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.439		0.235	0.238	1.00	0.347	pCi/g	05/05/20 13:22	05/20/20 15:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					05/05/20 13:22	05/20/20 15:40	1
Y Carrier	86.7		40 - 110					05/05/20 13:22	05/20/20 15:40	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	0.751		0.259	0.263	5.00	0.347	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.364		0.116	0.121	1.00	0.0994	pCi/g	05/05/20 12:32	05/28/20 04:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					05/05/20 12:32	05/28/20 04:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.480		0.260	0.264	1.00	0.387	pCi/g	05/05/20 13:22	05/20/20 15:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					05/05/20 13:22	05/20/20 15:40	1
Y Carrier	83.0		40 - 110					05/05/20 13:22	05/20/20 15:40	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	0.844		0.285	0.290	5.00	0.387	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.459		0.126	0.133	1.00	0.0973	pCi/g	05/05/20 12:32	05/28/20 04:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					05/05/20 12:32	05/28/20 04:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.497		0.265	0.269	1.00	0.397	pCi/g	05/05/20 13:22	05/20/20 15:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					05/05/20 13:22	05/20/20 15:41	1
Y Carrier	83.4		40 - 110					05/05/20 13:22	05/20/20 15:41	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	0.956		0.293	0.300	5.00	0.397	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0899	U	0.0778	0.0783	1.00	0.117	pCi/g	05/05/20 12:32	05/28/20 04:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					05/05/20 12:32	05/28/20 04:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.302	U	0.253	0.255	1.00	0.404	pCi/g	05/05/20 13:22	05/20/20 15:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					05/05/20 13:22	05/20/20 15:41	1
Y Carrier	83.4		40 - 110					05/05/20 13:22	05/20/20 15:41	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	0.392	U	0.265	0.267	5.00	0.404	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.428		0.124	0.130	1.00	0.0985	pCi/g	05/05/20 12:32	05/28/20 04:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					05/05/20 12:32	05/28/20 04:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.618		0.267	0.273	1.00	0.385	pCi/g	05/05/20 13:22	05/20/20 15:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					05/05/20 13:22	05/20/20 15:42	1
Y Carrier	88.6		40 - 110					05/05/20 13:22	05/20/20 15:42	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	1.05		0.29	0.30	5.00	0.385	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0708	U	0.0768	0.0770	1.00	0.123	pCi/g	05/05/20 12:32	05/28/20 04:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					05/05/20 12:32	05/28/20 04:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.125	U	0.218	0.219	1.00	0.370	pCi/g	05/05/20 13:22	05/20/20 15:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					05/05/20 13:22	05/20/20 15:42	1
Y Carrier	87.9		40 - 110					05/05/20 13:22	05/20/20 15:42	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	0.196	U	0.231	0.232	5.00	0.370	pCi/g		05/29/20 09:58	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DUP-01

Lab Sample ID: 400-187320-43

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0447	U	0.0642	0.0643	1.00	0.109	pCi/g	05/07/20 11:59	06/01/20 04:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					05/07/20 11:59	06/01/20 04:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.179	U	0.296	0.297	1.00	0.500	pCi/g	05/07/20 12:23	05/19/20 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.5		40 - 110					05/07/20 12:23	05/19/20 14:39	1
Y Carrier	87.1		40 - 110					05/07/20 12:23	05/19/20 14:39	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	0.224	U	0.303	0.304	5.00	0.500	pCi/g		06/01/20 08:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DUP-02

Lab Sample ID: 400-187320-44

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.716		0.145	0.159	1.00	0.0978	pCi/g	05/07/20 11:59	06/01/20 04:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					05/07/20 11:59	06/01/20 04:48	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		0.282	0.289	1.00	0.397	pCi/g	05/07/20 12:23	05/19/20 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					05/07/20 12:23	05/19/20 14:39	1
Y Carrier	87.9		40 - 110					05/07/20 12:23	05/19/20 14:39	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	1.39		0.317	0.330	5.00	0.397	pCi/g		06/01/20 08:25	1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFI	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:34	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:37	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:34	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:37	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:34	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:37	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:34	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:38	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:34	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:38	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:34	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:38	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:38	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:38	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:39	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:39	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:39	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:39	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:39	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:35	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:39	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:36	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:40	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:36	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470938	05/20/20 15:40	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:36	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470958	05/20/20 15:41	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:36	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470958	05/20/20 15:41	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471356	05/28/20 04:36	AJD	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470958	05/20/20 15:42	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469589	05/05/20 12:32	MNH	TAL SL
Total/NA	Analysis	9315		1	471357	05/28/20 04:41	CJQ	TAL SL
Total/NA	Prep	DPS-0			469648	05/05/20 13:22	MNH	TAL SL
Total/NA	Analysis	9320		1	470958	05/20/20 15:42	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471518	05/29/20 09:58	SMP	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Client Sample ID: DUP-01

Lab Sample ID: 400-187320-43

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:48	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 14:39	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Client Sample ID: DUP-02

Lab Sample ID: 400-187320-44

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:48	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 14:39	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Rad

Prep Batch: 469589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	DPS-21	
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	DPS-21	
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	DPS-21	
MB 160-469589/23-A	Method Blank	Total/NA	Solid	DPS-21	
LCS 160-469589/1-A	Lab Control Sample	Total/NA	Solid	DPS-21	
400-187320-12 DU	DPT-1-SS RA V2	Total/NA	Solid	DPS-21	

Prep Batch: 469648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	DPS-0	
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	DPS-0	
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	DPS-0	
MB 160-469648/23-A	Method Blank	Total/NA	Solid	DPS-0	
LCS 160-469648/1-A	Lab Control Sample	Total/NA	Solid	DPS-0	
400-187320-12 DU	DPT-1-SS RA V2	Total/NA	Solid	DPS-0	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Rad

Prep Batch: 469806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-43	DUP-01	Total/NA	Solid	DPS-21	
400-187320-44	DUP-02	Total/NA	Solid	DPS-21	
MB 160-469806/11-A	Method Blank	Total/NA	Solid	DPS-21	
LCS 160-469806/1-A	Lab Control Sample	Total/NA	Solid	DPS-21	
400-187320-43 DU	DUP-01	Total/NA	Solid	DPS-21	

Prep Batch: 469808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-43	DUP-01	Total/NA	Solid	DPS-0	
400-187320-44	DUP-02	Total/NA	Solid	DPS-0	
MB 160-469808/11-A	Method Blank	Total/NA	Solid	DPS-0	
LCS 160-469808/1-A	Lab Control Sample	Total/NA	Solid	DPS-0	
400-187320-43 DU	DUP-01	Total/NA	Solid	DPS-0	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-469589/23-A
Matrix: Solid
Analysis Batch: 471357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469589

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.008726	U	0.0598	0.0598	1.00	0.118	pCi/g	05/05/20 12:32	05/28/20 04:41	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					05/05/20 12:32	05/28/20 04:41	1

Lab Sample ID: LCS 160-469589/1-A
Matrix: Solid
Analysis Batch: 471356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469589

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.397		1.01	1.00	0.0867	pCi/g	83	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	81.0		40 - 110						

Lab Sample ID: 400-187320-12 DU
Matrix: Solid
Analysis Batch: 471356

Client Sample ID: DPT-1-SS RA V2
Prep Type: Total/NA
Prep Batch: 469589

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.315		0.4285		0.127	1.00	0.0803	pCi/g	0.48	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	87.9		40 - 110							

Lab Sample ID: MB 160-469806/11-A
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469806

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.008328	U	0.0616	0.0616	1.00	0.119	pCi/g	05/07/20 11:59	06/01/20 04:49	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					05/07/20 11:59	06/01/20 04:49	1

Lab Sample ID: LCS 160-469806/1-A
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469806

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.26		1.06	1.00	0.105	pCi/g	90	75 - 125

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-469806/1-A
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469806

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.3		40 - 110

Lab Sample ID: 400-187320-43 DU
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 469806

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-226	0.0447	U	0.09564	U	0.0783	1.00	0.116	pCi/g	0.36	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	85.8		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-469648/23-A
Matrix: Solid
Analysis Batch: 470958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469648

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110	05/05/20 13:22	05/20/20 15:42	1
Y Carrier	89.3		40 - 110	05/05/20 13:22	05/20/20 15:42	1

Lab Sample ID: LCS 160-469648/1-A
Matrix: Solid
Analysis Batch: 470938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469648

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.	
									Limits	
Radium-228	8.82	7.682		0.967	1.00	0.407	pCi/g	87	75 - 125	

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	81.0		40 - 110
Y Carrier	81.5		40 - 110

Lab Sample ID: 400-187320-12 DU
Matrix: Solid
Analysis Batch: 470938

Client Sample ID: DPT-1-SS RA V2
Prep Type: Total/NA
Prep Batch: 469648

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-228	0.608		0.2447	U	0.248	1.00	0.401	pCi/g	0.69	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 400-187320-12 DU
Matrix: Solid
Analysis Batch: 470938

Client Sample ID: DPT-1-SS RA V2
Prep Type: Total/NA
Prep Batch: 469648

Carrier	<i>DU</i> %Yield	<i>DU</i> Qualifier	Limits
Ba Carrier	87.9		40 - 110
Y Carrier	85.2		40 - 110

Lab Sample ID: MB 160-469808/11-A
Matrix: Solid
Analysis Batch: 470898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469808

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.01823	U	0.221	0.221	1.00	0.398	pCi/g	05/07/20 12:23	05/19/20 14:41	1

Carrier	<i>MB</i> %Yield	<i>MB</i> Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110	05/07/20 12:23	05/19/20 14:41	1
Y Carrier	84.5		40 - 110	05/07/20 12:23	05/19/20 14:41	1

Lab Sample ID: LCS 160-469808/1-A
Matrix: Solid
Analysis Batch: 470884

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469808

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

Carrier	<i>LCS</i> %Yield	<i>LCS</i> Qualifier	Limits
Ba Carrier	91.3		40 - 110
Y Carrier	88.6		40 - 110

Lab Sample ID: 400-187320-43 DU
Matrix: Solid
Analysis Batch: 470884

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 469808

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.179	U	0.3086	U	0.283	1.00	0.453	pCi/g	0.22	1

Carrier	<i>DU</i> %Yield	<i>DU</i> Qualifier	Limits
Ba Carrier	85.8		40 - 110
Y Carrier	87.1		40 - 110

Chain of Custody Record

Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colomade Parkway Bin 530 EC City: Birmingham State: AL, Zip: 35243 Phone: 205-992-6283(Tel) Email: laparker@southernco.com Project Name: Plant Watson Site: Plant Watson		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com COC No: 400-93871-34057.5 Page: Page 5 of 6 Job #:	
Due Date Requested: <u>pergnuk</u> TAT Requested (days): <u>pergnuk</u> PO #: SCS10382606 WO #:		Carmer Tracking No(s): Analysis Requested:	
Sample Identification DPT-1-55 Ba U2 (22-24) DPT-1-55 Ba U3 (38-40) DPT-2-55 Ba U2 (20-27) DPT-2-55 Ba U3 (37-38) DPT-3-55 Ba U2 (24-25) DPT-3-55 Ba U3 (29-30) DPT-4-55 Ba U2 (15-16) DPT-4-55 Ba U3 (28-29) DPT-5-55 Ba U2 (17-18) DPT-5-55 Ba U3 (23-24) DPT-6-55 Ba U2		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> 9034 Calc AVS Moisture <input checked="" type="checkbox"/> SM4500 SO4, E - Sulfate, Total <input checked="" type="checkbox"/> SM4500 S2, D - Sulfide, Total <input checked="" type="checkbox"/> 9315 Ra226, 9320 Ra228 <input checked="" type="checkbox"/> 6020 - Uranium & Thorium <input checked="" type="checkbox"/> Ra26Ra228 GFC - Combined Radium-226 and Radium-228 <input checked="" type="checkbox"/> Moisture - Percent Moisture <input checked="" type="checkbox"/> 9315 Ra226 - Radium 226 <input checked="" type="checkbox"/> 9320 Ra228 - Radium 228 <input checked="" type="checkbox"/> Ra26Ra228 GFC - Radium 226 + Radium 228 <input checked="" type="checkbox"/>	
Sample Date 4/20/20 ↓ 4/21/20 ↓ 4/22/20 ↓ ↓		Sample Time 1555 ↓ 1600 ↓ 1105 ↓ 1420 ↓ 1425 ↓ 1755 ↓ 1745 ↓ 1125 ↓ 1130 ↓ 1500	
Matrix (Newater, Seawater, Wastewater, Other) <input checked="" type="checkbox"/> Solid		Preservation Code:	
Sample Type (C=Comp, G=grab) <input checked="" type="checkbox"/> G		Special Instructions/Note: Baton Rouge 218	
Total Number of Containers:		Total Number of Containers:	
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:		Method of Shipment:	
Relinquished by: <u>[Signature]</u> Date/Time: 4/27/20 0600 Company: <u>[Signature]</u>		Received by: <u>[Signature]</u> Date/Time: 4/27/20 1145 Company: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u> Date/Time: 4/27/20 0849 Company: <u>[Signature]</u>		Received by: <u>[Signature]</u> Date/Time: 4/28/20 2020 Company: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u> Date/Time: 4/27/20 0849 Company: <u>[Signature]</u>		Received by: <u>[Signature]</u> Date/Time: 4/28/20 2020 Company: <u>[Signature]</u>	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>2.8°C</u>	

Chain of Custody Record



Environment Testing
TestAmerica

Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 (Tel) Email: laparker@southernco.com Project Name: Plant Watson Site: Plant Watson		Lab PM: Whitmire, Chyenne R E-Mail: chyenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-93871-34057.5 Page: Page 5 of 6 Job #:	
Due Date Requested: Per Guy TAT Requested (days): Per Guy PO #: SCS10382606 WO #: 40001674 Project #: 40001674 SSOW#:		Analysis Requested 9024_Calc_AVS_Moisture 5M4500_SO4_E_Sulfate_Total 5M4500_SO2_D_Sulfide_Total 9315_Ra226_9320_Ra228 6020_Uranium_Thorium Ra226Ra228_GFP_Combined Radium-226 and Radium-228 Moisture - Percent Moisture 9315_Ra226 - Radium 226 9320_Ra228 - Radium 228 Ra226Ra228_GFP_C - Radium 226 + Radium 228 Total Number of Containers	
Sample Identification DPT-6-SS Ba V3 (23-24) DPT-7-SS Ba V2 (18-19) DPT-7-SS Ba V3 (27-28) DPT-8-SS Ba V2 (25-26) DPT-8-SS Ba V3 (39-40) DPT-9-SS Ba V2 (27-28) DPT-9-SS Ba V3 (32-33) DPT-10-SS Ba V2 (22-23) DPT-10-SS Ba V3 (25-26) DPT-01 DPT-02		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 - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - EDTA Y - other (specify)	
Sample Date 4/22/20 1505 4/23/20 0925 4/24/20 0745 4/24/20 0750 4/24/20 1210 4/24/20 1215 4/24/20 1325 4/24/20 0100 4/24/20 0000		Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	
Sample Type (C=Comp, G=grab) G G G G G G G G G G		Special Instructions/Note: Baton Rouge 218	
Field Filtered Sample (Yes or No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		Perform MS/MSD (Yes or No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	
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:		Method of Shipment:	
Relinquished by: [Signature] Date/Time: 4-27-20 600		Received by: [Signature] Date/Time: 4-27-20 1405	
Relinquished by: [Signature] Date/Time: 4-27-20 1145		Received by: [Signature] Date/Time: 4/29/20 849	
Relinquished by: [Signature] Date/Time: 4/27/20 2000		Received by: [Signature] Date/Time: 4/29/20 849	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	

3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record



Environmental Testing
TestAmerica

Client Information		Lab Pmt		Carrier Tracking No(s)		COC No												
Southern Company		Whitmore, Cheyenne R				400-93871-34057.5												
Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243		E-Mail: cheyenne.whitmore@testamericainc.com		Page: Page 5 of 6		Job #:												
PO #: SCS10382606 WO #:		Sample: <i>Nathan Choi</i>		Job #:		Job #:												
Email: laparker@southernco.com		Phone: <i>985-204-5108</i>		Job #:		Job #:												
Project Name: Plant Watson		Due Date Requested:		Job #:		Job #:												
Site: <i>Plant Watson</i>		TAT Requested (days):		Job #:		Job #:												
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=biological, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034 Calc_AVS, Moisture	SM4500_S04 E - Sulfate, Total	SM4500_S2 D - Sulfide, Total	9315 Ra226, 9320 Ra228	6020 - Uranium & Thorium	Ra226Ra228_GFP - Combined Radium-226 and Radium-228	Moisture - Percent Moisture	9315 Ra226 - Radium 226	9320 Ra228 - Radium 228	Ra226Ra228_GFP - Radium 226 + Radium 228	Total Number of Containers	Special Instructions/Note:
DPT-10-SS RaU3	4/21/20	1505	C	Solid	W	W												Baton Rouge 218
DPT-7-SS RaU2	4/23/20	0925		Solid	W	W												
DPT-7-SS RaU3	↓	0930		Solid	W	W												
DPT-8-SS RaU2	4/24/20	0745		Solid	W	W												
DPT-8-SS RaU3	↓	0750		Solid	W	W												
DPT-9-SS RaU2	↓	1210		Solid	W	W												
DPT-9-SS RaU3	↓	1245		Solid	W	W												
DPT-10-SS RaU2	↓	1320		Solid	W	W												
DPT-10-SS RaU3	↓	1325		Solid	W	W												
DPT-01	4/21/20	0000		Solid	W	W												
DPT-02	↓	0000		Solid	W	W												
<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: _____</p> <p>Relinquished by: <i>Nathan Choi</i> Date/Time: 4-27-20 0600 Company: <i>CS</i></p> <p>Relinquished by: _____ Date/Time: 4-27-20 1145 Company: <i>CS</i></p> <p>Relinquished by: _____ Date/Time: 4/28/20 849 Company: <i>MTA</i></p> <p>Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No</p>																		



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-2

SDG Number: Plant Watson

Login Number: 187320

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

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, 2.8°C IR-9
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	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-2

SDG Number: Plant Watson

Login Number: 187320

List Number: 3

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/29/20 09:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No ice present upon receipt.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-21
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-2
SDG: Plant Watson

Method: 9315 - Radium-226 (GFPC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba Carrier (40-110)	Y Carrier (40-110)
400-187320-12	DPT-1-SS RA V2	89.1	
400-187320-12 DU	DPT-1-SS RA V2	87.9	
400-187320-13	DPT-1-SS RA V3	84.0	
400-187320-14	DPT-2-SS RA V2	74.5	
400-187320-15	DPT-2-SS RA V3	90.7	
400-187320-16	DPT-3-SS RA V2	91.8	
400-187320-17	DPT-3-SS RA V3	93.0	
400-187320-18	DPT-4-SS RA V2	94.2	
400-187320-19	DPT-4-SS RA V3	81.3	
400-187320-20	DPT-5-SS RA V2	87.3	
400-187320-21	DPT-5-SS RA V3	75.9	
400-187320-22	DPT-6-SS RA V2	87.3	
400-187320-34	DPT-6-SS RA V3	87.6	
400-187320-35	DPT-7-SS RA V2	87.3	
400-187320-36	DPT-7-SS RA V3	89.4	
400-187320-37	DPT-8-SS RA V2	91.8	
400-187320-38	DPT-8-SS RA V3	88.5	
400-187320-39	DPT-9-SS RA V2	93.0	
400-187320-40	DPT-9-SS RA V3	89.2	
400-187320-41	DPT-10-SS RA V2	91.5	
400-187320-42	DPT-10-SS RA V3	88.2	
400-187320-43	DUP-01	82.5	
400-187320-43 DU	DUP-01	85.8	
400-187320-44	DUP-02	96.5	
LCS 160-469589/1-A	Lab Control Sample	81.0	
LCS 160-469806/1-A	Lab Control Sample	91.3	
MB 160-469589/23-A	Method Blank	87.7	
MB 160-469806/11-A	Method Blank	88.6	

Tracer/Carrier Legend
Ba Carrier = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba Carrier (40-110)	Y Carrier (40-110)
400-187320-12	DPT-1-SS RA V2	89.1	84.1
400-187320-12 DU	DPT-1-SS RA V2	87.9	85.2
400-187320-13	DPT-1-SS RA V3	84.0	82.2
400-187320-14	DPT-2-SS RA V2	74.5	84.1
400-187320-15	DPT-2-SS RA V3	90.7	87.5
400-187320-16	DPT-3-SS RA V2	91.8	79.6
400-187320-17	DPT-3-SS RA V3	93.0	86.4
400-187320-18	DPT-4-SS RA V2	94.2	87.5
400-187320-19	DPT-4-SS RA V3	81.3	86.0
400-187320-20	DPT-5-SS RA V2	87.3	84.1
400-187320-21	DPT-5-SS RA V3	75.9	83.0
400-187320-22	DPT-6-SS RA V2	87.3	78.5

Tracer/Carrier Summary

Client: Southern Company
 Project/Site: Plant Watson

Job ID: 400-187320-2
 SDG: Plant Watson

Method: 9320 - Radium-228 (GFPC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba Carrier (40-110)	Y Carrier (40-110)
400-187320-34	DPT-6-SS RA V3	87.6	84.5
400-187320-35	DPT-7-SS RA V2	87.3	86.4
400-187320-36	DPT-7-SS RA V3	89.4	84.9
400-187320-37	DPT-8-SS RA V2	91.8	86.7
400-187320-38	DPT-8-SS RA V3	88.5	83.0
400-187320-39	DPT-9-SS RA V2	93.0	83.4
400-187320-40	DPT-9-SS RA V3	89.2	83.4
400-187320-41	DPT-10-SS RA V2	91.5	88.6
400-187320-42	DPT-10-SS RA V3	88.2	87.9
400-187320-43	DUP-01	82.5	87.1
400-187320-43 DU	DUP-01	85.8	87.1
400-187320-44	DUP-02	96.5	87.9
LCS 160-469648/1-A	Lab Control Sample	81.0	81.5
LCS 160-469808/1-A	Lab Control Sample	91.3	88.6
MB 160-469648/23-A	Method Blank	87.7	89.3
MB 160-469808/11-A	Method Blank	88.6	84.5

Tracer/Carrier Legend

Ba Carrier = Ba Carrier

Y Carrier = Y Carrier

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-187320-3
Laboratory Sample Delivery Group: Plant Watson
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
6/19/2020 1:14:04 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.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Job ID: 400-187320-3

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-187320-3

Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-471675 and analytical batch 160-471679 were outside control limits for lithium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (400-187320-B-12-E MS) and (400-187320-B-12-F MSD)

Method 6020: preparation batch 160-471675 and analytical batch 160-471679 The MS (MSD) recovery and precision for antimony is outside the established QC limits. The MS/MSD is a multiple element spiking solution. All other elements in the spiking solution are either within acceptable criteria or have acceptable precision. This indicates potential matrix interference in the sample. Method performance is demonstrated by acceptable LCS recovery. No further action is required. (400-187320-B-12-E MS) and (400-187320-B-12-F MSD)

Method 6020: preparation batch 160-471675 and 160-471676 and analytical batch 160-471679 Due to linear range check (LRC) failures, the linear range for arsenic (200ppb) and molybdenum (100ppb) has been lowered to the concentration of the highest calibration standard. The LCS and MS/MSD were above the linear range, but were within acceptable recovery limits. (LCSSRM 160-471676/3-A), (400-187320-B-12-E MS), (400-187320-B-12-F MSD), (400-187320-A-43-O MS) and (400-187320-A-43-P MSD)

Client requested App III metals list added.

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SL
3050B	Preparation, Metals	SW846	TAL SL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187320-12	DPT-1-SS RA V2	Solid	04/20/20 15:55	04/28/20 08:49	
400-187320-13	DPT-1-SS RA V3	Solid	04/20/20 16:00	04/28/20 08:49	
400-187320-14	DPT-2-SS RA V2	Solid	04/21/20 11:00	04/28/20 08:49	
400-187320-15	DPT-2-SS RA V3	Solid	04/21/20 11:05	04/28/20 08:49	
400-187320-16	DPT-3-SS RA V2	Solid	04/21/20 14:20	04/28/20 08:49	
400-187320-17	DPT-3-SS RA V3	Solid	04/21/20 14:25	04/28/20 08:49	
400-187320-18	DPT-4-SS RA V2	Solid	04/21/20 17:55	04/28/20 08:49	
400-187320-19	DPT-4-SS RA V3	Solid	04/21/20 17:45	04/28/20 08:49	
400-187320-20	DPT-5-SS RA V2	Solid	04/22/20 11:25	04/28/20 08:49	
400-187320-21	DPT-5-SS RA V3	Solid	04/22/20 11:30	04/28/20 08:49	
400-187320-22	DPT-6-SS RA V2	Solid	04/22/20 15:00	04/28/20 08:49	
400-187320-34	DPT-6-SS RA V3	Solid	04/22/20 15:05	04/28/20 08:49	
400-187320-35	DPT-7-SS RA V2	Solid	04/23/20 09:25	04/28/20 08:49	
400-187320-36	DPT-7-SS RA V3	Solid	04/23/20 09:30	04/28/20 08:49	
400-187320-37	DPT-8-SS RA V2	Solid	04/24/20 07:45	04/28/20 08:49	
400-187320-38	DPT-8-SS RA V3	Solid	04/24/20 07:50	04/28/20 08:49	
400-187320-39	DPT-9-SS RA V2	Solid	04/24/20 12:10	04/28/20 08:49	
400-187320-40	DPT-9-SS RA V3	Solid	04/24/20 12:15	04/28/20 08:49	
400-187320-41	DPT-10-SS RA V2	Solid	04/24/20 13:20	04/28/20 08:49	
400-187320-42	DPT-10-SS RA V3	Solid	04/24/20 13:25	04/28/20 08:49	
400-187320-43	DUP-01	Solid	04/21/20 00:00	04/28/20 08:49	
400-187320-44	DUP-02	Solid	04/21/20 00:00	04/28/20 08:49	

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.226	U F1 F2	0.564	0.226	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Arsenic	4.17		1.13	0.451	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Barium	10.6		2.26	0.564	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Beryllium	0.149		0.113	0.0451	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Cadmium	0.0271	U	0.0564	0.0271	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Chromium	7.51		1.13	0.508	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Cobalt	0.285		0.226	0.0846	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Lead	4.09		0.338	0.141	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Lithium	2.85	F1	1.13	0.451	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Molybdenum	0.721		0.564	0.226	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Selenium	0.566		0.564	0.361	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2
Thallium	0.226	U	0.564	0.226	mg/Kg	☼	05/08/20 10:07	05/08/20 17:59	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 74.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.256	U	0.640	0.256	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Arsenic	0.512	U	1.28	0.512	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Barium	8.07		2.56	0.640	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Beryllium	0.217		0.128	0.0512	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Cadmium	0.0307	U	0.0640	0.0307	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Chromium	2.30		1.28	0.576	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Cobalt	0.936		0.256	0.0960	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Lead	3.29		0.384	0.160	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Lithium	1.26	J	1.28	0.512	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Molybdenum	0.471	J	0.640	0.256	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Selenium	0.410	U	0.640	0.410	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2
Thallium	0.256	U	0.640	0.256	mg/Kg	☼	05/08/20 10:07	05/08/20 18:33	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 70.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.279	U	0.697	0.279	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Arsenic	0.735	J	1.39	0.558	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Barium	83.7		2.79	0.697	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Beryllium	0.617		0.139	0.0558	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Cadmium	0.0335	U	0.0697	0.0335	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Chromium	3.24		1.39	0.627	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Cobalt	0.110	J	0.279	0.105	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Lead	13.1		0.418	0.174	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Lithium	2.42		1.39	0.558	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Molybdenum	0.279	U	0.697	0.279	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Selenium	1.31		0.697	0.446	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2
Thallium	0.279	U	0.697	0.279	mg/Kg	☼	05/08/20 10:07	05/08/20 18:39	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.257	U	0.643	0.257	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Arsenic	0.514	U	1.29	0.514	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Barium	2.23	J	2.57	0.643	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Beryllium	0.0514	U	0.129	0.0514	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Cadmium	0.0309	U	0.0643	0.0309	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Chromium	1.29		1.29	0.579	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Cobalt	0.215	J	0.257	0.0964	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Lead	0.629		0.386	0.161	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Lithium	0.514	U	1.29	0.514	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Molybdenum	0.257	U	0.643	0.257	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Selenium	0.411	U	0.643	0.411	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2
Thallium	0.257	U	0.643	0.257	mg/Kg	☼	05/08/20 10:07	05/08/20 19:06	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 60.9

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.300	U	0.751	0.300	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Arsenic	5.10		1.50	0.601	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Barium	65.8		3.00	0.751	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Beryllium	0.853		0.150	0.0601	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Cadmium	0.222		0.0751	0.0361	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Chromium	9.84		1.50	0.676	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Cobalt	13.5		0.300	0.113	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Lead	9.68		0.451	0.188	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Lithium	3.28		1.50	0.601	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Molybdenum	0.813		0.751	0.300	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Selenium	1.45		0.751	0.481	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2
Thallium	0.300	U	0.751	0.300	mg/Kg	☼	05/08/20 10:07	05/08/20 19:13	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.221	U	0.554	0.221	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Arsenic	4.52		1.11	0.443	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Barium	2.42		2.21	0.554	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Beryllium	0.0483	J	0.111	0.0443	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Cadmium	0.0332	J	0.0554	0.0266	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Chromium	1.09	J	1.11	0.498	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Cobalt	6.64		0.221	0.0830	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Lead	0.925		0.332	0.138	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Lithium	0.875	J	1.11	0.443	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Molybdenum	0.553	J	0.554	0.221	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Selenium	0.354	U	0.554	0.354	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2
Thallium	0.221	U	0.554	0.221	mg/Kg	☼	05/08/20 10:07	05/08/20 19:20	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 39.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.478	U	1.20	0.478	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Arsenic	6.93		2.39	0.957	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Barium	176		4.78	1.20	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Beryllium	0.197	J	0.239	0.0957	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Cadmium	0.0574	U	0.120	0.0574	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Chromium	8.01		2.39	1.08	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Cobalt	1.70		0.478	0.179	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Lead	3.23		0.718	0.299	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Lithium	3.73		2.39	0.957	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Molybdenum	3.53		1.20	0.478	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Selenium	1.15	J	1.20	0.766	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2
Thallium	0.478	U	1.20	0.478	mg/Kg	☼	05/08/20 10:07	05/08/20 19:26	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 86.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.213	U	0.532	0.213	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Arsenic	0.425	U	1.06	0.425	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Barium	4.19		2.13	0.532	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Beryllium	0.0425	U	0.106	0.0425	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Cadmium	0.0255	U	0.0532	0.0255	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Chromium	0.479	U	1.06	0.479	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Cobalt	0.150	J	0.213	0.0798	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Lead	0.512		0.319	0.133	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Lithium	0.530	J	1.06	0.425	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Molybdenum	0.213	U	0.532	0.213	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Selenium	0.340	U	0.532	0.340	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2
Thallium	0.213	U	0.532	0.213	mg/Kg	☼	05/08/20 10:07	05/08/20 19:33	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 71.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.233	U	0.583	0.233	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Arsenic	1.28		1.17	0.467	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Barium	60.3		2.33	0.583	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Beryllium	0.331		0.117	0.0467	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Cadmium	0.0280	U	0.0583	0.0280	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Chromium	5.96		1.17	0.525	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Cobalt	0.743		0.233	0.0875	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Lead	7.82		0.350	0.146	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Lithium	2.40		1.17	0.467	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Molybdenum	0.233	U	0.583	0.233	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Selenium	0.744		0.583	0.373	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2
Thallium	0.233	U	0.583	0.233	mg/Kg	☼	05/08/20 10:07	05/08/20 19:40	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.218	U	0.546	0.218	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Arsenic	0.437	U	1.09	0.437	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Barium	6.64		2.18	0.546	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Beryllium	0.0437	U	0.109	0.0437	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Cadmium	0.0262	U	0.0546	0.0262	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Chromium	0.629	J	1.09	0.491	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Cobalt	0.0819	U	0.218	0.0819	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Lead	0.436		0.327	0.136	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Lithium	0.437	U	1.09	0.437	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Molybdenum	0.263	J	0.546	0.218	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Selenium	0.349	U	0.546	0.349	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2
Thallium	0.218	U	0.546	0.218	mg/Kg	☼	05/08/20 10:07	05/08/20 19:46	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 65.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.293	U	0.733	0.293	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Arsenic	1.75		1.47	0.587	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Barium	20.5		2.93	0.733	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Beryllium	0.192		0.147	0.0587	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Cadmium	0.0352	U	0.0733	0.0352	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Chromium	7.74		1.47	0.660	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Cobalt	1.08		0.293	0.110	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Lead	10.1		0.440	0.183	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Lithium	2.79		1.47	0.587	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Molybdenum	0.536	J	0.733	0.293	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Selenium	0.848		0.733	0.469	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2
Thallium	0.293	U	0.733	0.293	mg/Kg	☼	05/08/20 10:07	05/08/20 19:53	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.220	U	0.549	0.220	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Arsenic	0.963	J	1.10	0.439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Barium	2.22		2.20	0.549	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Beryllium	0.0472	J	0.110	0.0439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Cadmium	0.0263	U	0.0549	0.0263	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Chromium	0.642	J	1.10	0.494	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Cobalt	0.0979	J	0.220	0.0823	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Lead	0.405		0.329	0.137	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Lithium	0.462	J	1.10	0.439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Molybdenum	3.14		0.549	0.220	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Selenium	0.351	U	0.549	0.351	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2
Thallium	0.220	U	0.549	0.220	mg/Kg	☼	05/08/20 10:07	05/08/20 20:00	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 76.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.233	U	0.583	0.233	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Arsenic	2.00		1.17	0.467	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Barium	20.4		2.33	0.583	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Beryllium	0.248		0.117	0.0467	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Cadmium	0.0280	U	0.0583	0.0280	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Chromium	6.02		1.17	0.525	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Cobalt	1.33		0.233	0.0875	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Lead	9.95		0.350	0.146	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Lithium	3.23		1.17	0.467	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Molybdenum	0.233	U	0.583	0.233	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Selenium	0.893		0.583	0.373	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2
Thallium	0.233	U	0.583	0.233	mg/Kg	☼	05/08/20 10:07	05/08/20 20:07	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.231	U	0.578	0.231	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Arsenic	0.463	U	1.16	0.463	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Barium	2.69		2.31	0.578	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Beryllium	0.0463	U	0.116	0.0463	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Cadmium	0.0278	U	0.0578	0.0278	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Chromium	0.705	J	1.16	0.520	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Cobalt	0.320		0.231	0.0867	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Lead	0.802		0.347	0.145	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Lithium	0.463	U	1.16	0.463	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Molybdenum	0.231	U	0.578	0.231	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Selenium	0.370	U	0.578	0.370	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2
Thallium	0.231	U	0.578	0.231	mg/Kg	☼	05/08/20 10:07	05/08/20 20:33	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.220	U	0.551	0.220	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Arsenic	1.55		1.10	0.441	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Barium	17.5		2.20	0.551	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Beryllium	0.0663	J	0.110	0.0441	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Cadmium	0.0264	U	0.0551	0.0264	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Chromium	3.81		1.10	0.496	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Cobalt	0.568		0.220	0.0826	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Lead	3.32		0.331	0.138	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Lithium	1.81		1.10	0.441	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Molybdenum	0.273	J	0.551	0.220	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Selenium	0.353	U	0.551	0.353	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2
Thallium	0.220	U	0.551	0.220	mg/Kg	☼	05/08/20 10:07	05/08/20 20:40	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.234	U	0.585	0.234	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Arsenic	0.468	U	1.17	0.468	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Barium	2.37		2.34	0.585	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Beryllium	0.0468	U	0.117	0.0468	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Cadmium	0.0281	U	0.0585	0.0281	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Chromium	0.865	J	1.17	0.527	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Cobalt	0.0878	U	0.234	0.0878	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Lead	1.63		0.351	0.146	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Lithium	0.468	U	1.17	0.468	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Molybdenum	2.60		0.585	0.234	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Selenium	0.374	U	0.585	0.374	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2
Thallium	0.234	U	0.585	0.234	mg/Kg	☼	05/08/20 10:07	05/08/20 20:47	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.219	U	0.549	0.219	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Arsenic	1.40		1.10	0.439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Barium	25.3		2.19	0.549	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Beryllium	0.231		0.110	0.0439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Cadmium	0.0263	U	0.0549	0.0263	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Chromium	4.86		1.10	0.494	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Cobalt	0.280		0.219	0.0823	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Lead	6.39		0.329	0.137	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Lithium	1.97		1.10	0.439	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Molybdenum	0.219	U	0.549	0.219	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Selenium	0.914		0.549	0.351	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2
Thallium	0.219	U	0.549	0.219	mg/Kg	☼	05/08/20 10:07	05/08/20 20:54	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.234	U	0.584	0.234	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Arsenic	0.467	U	1.17	0.467	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Barium	1.03	J	2.34	0.584	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Beryllium	0.0467	U	0.117	0.0467	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Cadmium	0.0280	U	0.0584	0.0280	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Chromium	0.734	J	1.17	0.526	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Cobalt	0.0876	U	0.234	0.0876	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Lead	0.322	J	0.350	0.146	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Lithium	0.467	U	1.17	0.467	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Molybdenum	0.234	U	0.584	0.234	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Selenium	0.374	U	0.584	0.374	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2
Thallium	0.234	U	0.584	0.234	mg/Kg	☼	05/08/20 10:07	05/08/20 21:00	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.218	U	0.544	0.218	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Arsenic	1.03	J	1.09	0.435	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Barium	26.0		2.18	0.544	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Beryllium	0.0740	J	0.109	0.0435	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Cadmium	0.0261	U	0.0544	0.0261	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Chromium	3.95		1.09	0.490	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Cobalt	0.255		0.218	0.0816	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Lead	4.91		0.327	0.136	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Lithium	2.94		1.09	0.435	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Molybdenum	0.218	U	0.544	0.218	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Selenium	0.481	J	0.544	0.348	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2
Thallium	0.218	U	0.544	0.218	mg/Kg	☼	05/08/20 10:07	05/08/20 21:07	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.228	U	0.570	0.228	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Arsenic	0.456	U	1.14	0.456	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Barium	1.37	J	2.28	0.570	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Beryllium	0.0456	U	0.114	0.0456	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Cadmium	0.0274	U	0.0570	0.0274	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Chromium	0.880	J	1.14	0.513	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Cobalt	0.0855	U	0.228	0.0855	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Lead	0.526		0.342	0.142	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Lithium	0.834	J	1.14	0.456	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Molybdenum	0.339	J	0.570	0.228	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Selenium	0.365	U	0.570	0.365	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2
Thallium	0.228	U	0.570	0.228	mg/Kg	☼	05/08/20 10:07	05/08/20 21:14	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DUP-01
Date Collected: 04/21/20 00:00
Date Received: 04/28/20 08:49

Lab Sample ID: 400-187320-43
Matrix: Solid
Percent Solids: 77.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.218	U	0.546	0.218	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Arsenic	0.437	U	1.09	0.437	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Barium	1.65	J	2.18	0.546	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Beryllium	0.0437	U	0.109	0.0437	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Cadmium	0.0262	U	0.0546	0.0262	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Chromium	0.671	J	1.09	0.491	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Cobalt	0.168	J	0.218	0.0819	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Lead	0.536		0.327	0.136	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Lithium	0.437	U	1.09	0.437	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Molybdenum	0.218	U	0.546	0.218	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Selenium	0.349	U	0.546	0.349	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2
Thallium	0.218	U	0.546	0.218	mg/Kg	☼	05/08/20 10:12	05/08/20 22:01	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DUP-02

Lab Sample ID: 400-187320-44

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.218	U	0.544	0.218	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Arsenic	0.655	J	1.09	0.435	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Barium	91.7		2.18	0.544	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Beryllium	0.697		0.109	0.0435	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Cadmium	0.0261	U	0.0544	0.0261	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Chromium	3.57		1.09	0.490	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Cobalt	0.115	J	0.218	0.0817	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Lead	7.64		0.327	0.136	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Lithium	2.74		1.09	0.435	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Molybdenum	0.218	U	0.544	0.218	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Selenium	1.48		0.544	0.348	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2
Thallium	0.218	U	0.544	0.218	mg/Kg	☼	05/08/20 10:12	05/08/20 22:34	2

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-1-SS RA V2

Lab Sample ID: 400-187320-12

Date Collected: 04/20/20 15:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 17:59	CB	TAL SL

Client Sample ID: DPT-1-SS RA V3

Lab Sample ID: 400-187320-13

Date Collected: 04/20/20 16:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 18:33	CB	TAL SL

Client Sample ID: DPT-2-SS RA V2

Lab Sample ID: 400-187320-14

Date Collected: 04/21/20 11:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 70.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 18:39	CB	TAL SL

Client Sample ID: DPT-2-SS RA V3

Lab Sample ID: 400-187320-15

Date Collected: 04/21/20 11:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:06	CB	TAL SL

Client Sample ID: DPT-3-SS RA V2

Lab Sample ID: 400-187320-16

Date Collected: 04/21/20 14:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 60.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:13	CB	TAL SL

Client Sample ID: DPT-3-SS RA V3

Lab Sample ID: 400-187320-17

Date Collected: 04/21/20 14:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:20	CB	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-4-SS RA V2

Lab Sample ID: 400-187320-18

Date Collected: 04/21/20 17:55

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 39.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:26	CB	TAL SL

Client Sample ID: DPT-4-SS RA V3

Lab Sample ID: 400-187320-19

Date Collected: 04/21/20 17:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:33	CB	TAL SL

Client Sample ID: DPT-5-SS RA V2

Lab Sample ID: 400-187320-20

Date Collected: 04/22/20 11:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 71.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:40	CB	TAL SL

Client Sample ID: DPT-5-SS RA V3

Lab Sample ID: 400-187320-21

Date Collected: 04/22/20 11:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:46	CB	TAL SL

Client Sample ID: DPT-6-SS RA V2

Lab Sample ID: 400-187320-22

Date Collected: 04/22/20 15:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 65.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 19:53	CB	TAL SL

Client Sample ID: DPT-6-SS RA V3

Lab Sample ID: 400-187320-34

Date Collected: 04/22/20 15:05

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 20:00	CB	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-7-SS RA V2

Lab Sample ID: 400-187320-35

Date Collected: 04/23/20 09:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 20:07	CB	TAL SL

Client Sample ID: DPT-7-SS RA V3

Lab Sample ID: 400-187320-36

Date Collected: 04/23/20 09:30

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 20:33	CB	TAL SL

Client Sample ID: DPT-8-SS RA V2

Lab Sample ID: 400-187320-37

Date Collected: 04/24/20 07:45

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 20:40	CB	TAL SL

Client Sample ID: DPT-8-SS RA V3

Lab Sample ID: 400-187320-38

Date Collected: 04/24/20 07:50

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 20:47	CB	TAL SL

Client Sample ID: DPT-9-SS RA V2

Lab Sample ID: 400-187320-39

Date Collected: 04/24/20 12:10

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 20:54	CB	TAL SL

Client Sample ID: DPT-9-SS RA V3

Lab Sample ID: 400-187320-40

Date Collected: 04/24/20 12:15

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 21:00	CB	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Client Sample ID: DPT-10-SS RA V2

Lab Sample ID: 400-187320-41

Date Collected: 04/24/20 13:20

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 21:07	CB	TAL SL

Client Sample ID: DPT-10-SS RA V3

Lab Sample ID: 400-187320-42

Date Collected: 04/24/20 13:25

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471675	05/08/20 10:07	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 21:14	CB	TAL SL

Client Sample ID: DUP-01

Lab Sample ID: 400-187320-43

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 22:01	CB	TAL SL

Client Sample ID: DUP-02

Lab Sample ID: 400-187320-44

Date Collected: 04/21/20 00:00

Matrix: Solid

Date Received: 04/28/20 08:49

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 22:34	CB	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Metals

Prep Batch: 471675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	3050B	
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	3050B	
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	3050B	
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	3050B	
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	3050B	
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	3050B	
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	3050B	
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	3050B	
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	3050B	
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	3050B	
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	3050B	
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	3050B	
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	3050B	
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	3050B	
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	3050B	
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	3050B	
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	3050B	
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	3050B	
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	3050B	
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	3050B	
MB 160-471675/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-471675/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-471675/3-A	Lab Control Sample	Total/NA	Solid	3050B	
400-187320-12 MS	DPT-1-SS RA V2	Total/NA	Solid	3050B	
400-187320-12 MSD	DPT-1-SS RA V2	Total/NA	Solid	3050B	

Prep Batch: 471676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-43	DUP-01	Total/NA	Solid	3050B	
400-187320-44	DUP-02	Total/NA	Solid	3050B	
MB 160-471676/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-471676/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-471676/3-A	Lab Control Sample	Total/NA	Solid	3050B	
400-187320-43 MS	DUP-01	Total/NA	Solid	3050B	
400-187320-43 MSD	DUP-01	Total/NA	Solid	3050B	

Analysis Batch: 471679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-12	DPT-1-SS RA V2	Total/NA	Solid	6020	471675
400-187320-13	DPT-1-SS RA V3	Total/NA	Solid	6020	471675
400-187320-14	DPT-2-SS RA V2	Total/NA	Solid	6020	471675
400-187320-15	DPT-2-SS RA V3	Total/NA	Solid	6020	471675
400-187320-16	DPT-3-SS RA V2	Total/NA	Solid	6020	471675
400-187320-17	DPT-3-SS RA V3	Total/NA	Solid	6020	471675
400-187320-18	DPT-4-SS RA V2	Total/NA	Solid	6020	471675
400-187320-19	DPT-4-SS RA V3	Total/NA	Solid	6020	471675
400-187320-20	DPT-5-SS RA V2	Total/NA	Solid	6020	471675
400-187320-21	DPT-5-SS RA V3	Total/NA	Solid	6020	471675
400-187320-22	DPT-6-SS RA V2	Total/NA	Solid	6020	471675
400-187320-34	DPT-6-SS RA V3	Total/NA	Solid	6020	471675
400-187320-35	DPT-7-SS RA V2	Total/NA	Solid	6020	471675

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Metals (Continued)

Analysis Batch: 471679 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187320-36	DPT-7-SS RA V3	Total/NA	Solid	6020	471675
400-187320-37	DPT-8-SS RA V2	Total/NA	Solid	6020	471675
400-187320-38	DPT-8-SS RA V3	Total/NA	Solid	6020	471675
400-187320-39	DPT-9-SS RA V2	Total/NA	Solid	6020	471675
400-187320-40	DPT-9-SS RA V3	Total/NA	Solid	6020	471675
400-187320-41	DPT-10-SS RA V2	Total/NA	Solid	6020	471675
400-187320-42	DPT-10-SS RA V3	Total/NA	Solid	6020	471675
400-187320-43	DUP-01	Total/NA	Solid	6020	471676
400-187320-44	DUP-02	Total/NA	Solid	6020	471676
MB 160-471675/1-A	Method Blank	Total/NA	Solid	6020	471675
MB 160-471676/1-A	Method Blank	Total/NA	Solid	6020	471676
LCS 160-471675/2-A	Lab Control Sample	Total/NA	Solid	6020	471675
LCS 160-471676/2-A	Lab Control Sample	Total/NA	Solid	6020	471676
LCSSRM 160-471675/3-A	Lab Control Sample	Total/NA	Solid	6020	471675
LCSSRM 160-471676/3-A	Lab Control Sample	Total/NA	Solid	6020	471676
400-187320-12 MS	DPT-1-SS RA V2	Total/NA	Solid	6020	471675
400-187320-12 MSD	DPT-1-SS RA V2	Total/NA	Solid	6020	471675
400-187320-43 MS	DUP-01	Total/NA	Solid	6020	471676
400-187320-43 MSD	DUP-01	Total/NA	Solid	6020	471676

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-471675/1-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 471675

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.198	U	0.496	0.198	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Arsenic	0.397	U	0.992	0.397	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Barium	0.496	U	1.98	0.496	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Beryllium	0.0397	U	0.0992	0.0397	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Cadmium	0.0238	U	0.0496	0.0238	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Chromium	0.446	U	0.992	0.446	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Cobalt	0.0744	U	0.198	0.0744	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Lead	0.124	U	0.298	0.124	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Lithium	0.397	U	0.992	0.397	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Molybdenum	0.198	U	0.496	0.198	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Selenium	0.317	U	0.496	0.317	mg/Kg		05/08/20 10:07	05/08/20 17:39	2
Thallium	0.198	U	0.496	0.198	mg/Kg		05/08/20 10:07	05/08/20 17:39	2

Lab Sample ID: LCS 160-471675/2-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCSSRM 160-471675/3-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471675

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	97.6	101.9		mg/Kg		104.4	70.0 - 130.1
Barium	320	348.8		mg/Kg		109.0	75.0 - 125.0
Beryllium	41.4	45.95		mg/Kg		111.0	75.1 - 125.1
Cadmium	114	120.8		mg/Kg		105.9	75.0 - 125.4
Chromium	147	141.0		mg/Kg		95.9	70.1 - 129.9
Cobalt	46.7	45.87		mg/Kg		98.2	75.2 - 125.1
Lead	105	120.9		mg/Kg		115.2	70.5 - 128.6
Molybdenum	78.8	90.06		mg/Kg		114.3	69.5 - 130.7
Selenium	93.1	99.35		mg/Kg		106.7	64.6 - 135.3
Thallium	104	118.5		mg/Kg		113.9	67.3 - 131.7

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-187320-12 MS
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: DPT-1-SS RA V2
Prep Type: Total/NA
Prep Batch: 471675
%Rec.

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	0.226	U F1 F2	55.3	22.01	F1	mg/Kg	☼	40	75 - 125
Arsenic	4.17		111	111.7		mg/Kg	☼	97	75 - 125
Barium	10.6		111	137.9		mg/Kg	☼	115	75 - 125
Beryllium	0.149		11.1	12.48		mg/Kg	☼	111	75 - 125
Cadmium	0.0271	U	111	116.7		mg/Kg	☼	106	75 - 125
Chromium	7.51		111	107.1		mg/Kg	☼	90	75 - 125
Cobalt	0.285		111	111.1		mg/Kg	☼	100	75 - 125
Lead	4.09		111	121.8		mg/Kg	☼	106	75 - 125
Lithium	2.85	F1	11.1	26.27	F1	mg/Kg	☼	212	75 - 125
Molybdenum	0.721		55.3	60.79		mg/Kg	☼	109	75 - 125
Selenium	0.566		55.3	51.52		mg/Kg	☼	92	75 - 125
Thallium	0.226	U	22.1	23.05		mg/Kg	☼	104	75 - 125

Lab Sample ID: 400-187320-12 MSD
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: DPT-1-SS RA V2
Prep Type: Total/NA
Prep Batch: 471675
%Rec.

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Antimony	0.226	U F1 F2	63.6	31.58	F1 F2	mg/Kg	☼	50	75 - 125	36	30
Arsenic	4.17		127	130.5		mg/Kg	☼	99	75 - 125	15	30
Barium	10.6		127	146.9		mg/Kg	☼	107	75 - 125	6	30
Beryllium	0.149		12.7	13.84		mg/Kg	☼	108	75 - 125	10	30
Cadmium	0.0271	U	127	131.9		mg/Kg	☼	104	75 - 125	12	30
Chromium	7.51		127	128.0		mg/Kg	☼	95	75 - 125	18	30
Cobalt	0.285		127	131.0		mg/Kg	☼	103	75 - 125	16	30
Lead	4.09		127	136.8		mg/Kg	☼	104	75 - 125	12	30
Lithium	2.85	F1	12.7	24.20	F1	mg/Kg	☼	168	75 - 125	8	30
Molybdenum	0.721		63.6	70.24		mg/Kg	☼	109	75 - 125	14	30
Selenium	0.566		63.6	59.79		mg/Kg	☼	93	75 - 125	15	30
Thallium	0.226	U	25.4	26.50		mg/Kg	☼	104	75 - 125	14	30

Lab Sample ID: MB 160-471676/1-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 471676

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Antimony	0.199	U	0.497	0.199	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Arsenic	0.397	U	0.993	0.397	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Barium	0.497	U	1.99	0.497	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Beryllium	0.0397	U	0.0993	0.0397	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Cadmium	0.0238	U	0.0497	0.0238	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Chromium	0.447	U	0.993	0.447	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Cobalt	0.0745	U	0.199	0.0745	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Lead	0.124	U	0.298	0.124	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Lithium	0.397	U	0.993	0.397	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Molybdenum	0.199	U	0.497	0.199	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Selenium	0.318	U	0.497	0.318	mg/Kg		05/08/20 10:12	05/08/20 21:20			2
Thallium	0.199	U	0.497	0.199	mg/Kg		05/08/20 10:12	05/08/20 21:20			2

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 160-471676/2-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471676
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lithium	9.55	10.11		mg/Kg		106	80 - 120

Lab Sample ID: LCSSRM 160-471676/3-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471676
%Rec.

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Antimony	99.4	75.25		mg/Kg		75.7	20.7 - 256.5
Arsenic	97.6	108.4		mg/Kg		111.1	70.0 - 130.1
Barium	320	351.3		mg/Kg		109.8	75.0 - 125.0
Beryllium	41.4	45.52		mg/Kg		110.0	75.1 - 125.1
Cadmium	114	119.6		mg/Kg		104.9	75.0 - 125.4
Chromium	147	149.3		mg/Kg		101.6	70.1 - 129.9
Cobalt	46.7	48.41		mg/Kg		103.7	75.2 - 125.1
Lead	105	118.8		mg/Kg		113.1	70.5 - 128.6
Molybdenum	78.8	93.08		mg/Kg		118.1	69.5 - 130.7
Selenium	93.1	102.4		mg/Kg		110.0	64.6 - 135.3
Thallium	104	116.8		mg/Kg		112.3	67.3 - 131.7

Lab Sample ID: 400-187320-43 MS
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 471676
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.218	U	63.1	64.78		mg/Kg	☼	103	75 - 125
Arsenic	0.437	U	126	119.8		mg/Kg	☼	95	75 - 125
Barium	1.65	J	126	135.1		mg/Kg	☼	106	75 - 125
Beryllium	0.0437	U	12.6	13.23		mg/Kg	☼	105	75 - 125
Cadmium	0.0262	U	126	132.6		mg/Kg	☼	105	75 - 125
Chromium	0.671	J	126	120.7		mg/Kg	☼	95	75 - 125
Cobalt	0.168	J	126	122.3		mg/Kg	☼	97	75 - 125
Lead	0.536		126	133.2		mg/Kg	☼	105	75 - 125
Lithium	0.437	U	12.6	14.11		mg/Kg	☼	112	75 - 125
Molybdenum	0.218	U	63.1	70.44		mg/Kg	☼	112	75 - 125
Selenium	0.349	U	63.1	56.57		mg/Kg	☼	90	75 - 125
Thallium	0.218	U	25.2	26.38		mg/Kg	☼	105	75 - 125

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-187320-43 MSD
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 471676

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Antimony	0.218	U	59.3	57.80		mg/Kg	☼	98	75 - 125	11	30
Arsenic	0.437	U	119	111.4		mg/Kg	☼	94	75 - 125	7	30
Barium	1.65	J	119	118.4		mg/Kg	☼	98	75 - 125	13	30
Beryllium	0.0437	U	11.9	11.61		mg/Kg	☼	98	75 - 125	13	30
Cadmium	0.0262	U	119	119.8		mg/Kg	☼	101	75 - 125	10	30
Chromium	0.671	J	119	111.5		mg/Kg	☼	94	75 - 125	8	30
Cobalt	0.168	J	119	115.1		mg/Kg	☼	97	75 - 125	6	30
Lead	0.536		119	118.8		mg/Kg	☼	100	75 - 125	11	30
Lithium	0.437	U	11.9	12.29		mg/Kg	☼	104	75 - 125	14	30
Molybdenum	0.218	U	59.3	62.69		mg/Kg	☼	106	75 - 125	12	30
Selenium	0.349	U	59.3	53.16		mg/Kg	☼	90	75 - 125	6	30
Thallium	0.218	U	23.7	23.96		mg/Kg	☼	101	75 - 125	10	30

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-3

SDG Number: Plant Watson

Login Number: 187320

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

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, 2.8°C IR-9
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	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187320-3

SDG Number: Plant Watson

Login Number: 187320

List Number: 3

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/29/20 09:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	No ice present upon receipt.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187320-3
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	05-14-20
ANAB	Dept. of Energy	L2305.01	05-14-20
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-187407-1
Laboratory Sample Delivery Group: Plant Watson
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
5/12/2020 1:59:24 PM
Mark Swafford, Project Manager II
(850)471-6207
mark.swafford@testamericainc.com

Designee for
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.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Job ID: 400-187407-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

**Job Narrative
400-187407-1**

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria of <6°C (16.2°C), with no cooling agent present: DPT-11-SS RA V2 (400-187407-1), DPT-11-SS RA V3 (400-187407-2), DPT-12-SS RA V2 (400-187407-3), DPT-12-SS RA V3 (400-187407-4), DPT-13-SS RA V2 (400-187407-5) and DPT-13-SS RA V3 (400-187407-6).

A solid 4oz jar container for the following sample was received broken: DPT-12-SS RA V3 (400-187407-4). The sample was transferred to a new container with minimal loss; sufficient sample is remaining for analysis.

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Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
3050B	Preparation, Metals	SW846	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187407-1	DPT-11-SS RA V2	Solid	04/27/20 12:20	04/30/20 09:27	
400-187407-2	DPT-11-SS RA V3	Solid	04/27/20 12:25	04/30/20 09:27	
400-187407-3	DPT-12-SS RA V2	Solid	04/27/20 15:05	04/30/20 09:27	
400-187407-4	DPT-12-SS RA V3	Solid	04/27/20 15:20	04/30/20 09:27	
400-187407-5	DPT-13-SS RA V2	Solid	04/28/20 10:15	04/30/20 09:27	
400-187407-6	DPT-13-SS RA V3	Solid	04/28/20 11:30	04/30/20 09:27	

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 61.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	6.12		0.274	0.123	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Uranium	2.27		0.137	0.0547	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 81.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.988		0.230	0.103	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Uranium	0.817		0.115	0.0460	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.47		0.229	0.103	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Uranium	0.984		0.115	0.0458	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson

Job ID: 400-187407-1
 SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 82.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.118	J	0.221	0.0993	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Uranium	0.0441	U	0.110	0.0441	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson

Job ID: 400-187407-1
 SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 75.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	6.37		0.235	0.106	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Uranium	1.06		0.118	0.0470	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.9

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.110	J	0.232	0.104	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Uranium	0.0464	U	0.116	0.0464	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2

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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MQL	Method Quantitation Limit
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: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 61.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 23:02	FLC	TAL SL

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 23:28	FLC	TAL SL

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 23:35	FLC	TAL SL

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 23:42	FLC	TAL SL

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 23:49	FLC	TAL SL

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	469480	05/04/20 07:47	RJD	TAL SL

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			469893	05/08/20 10:12	LKP	TAL SL
Total/NA	Analysis	6020		2	469984	05/08/20 23:55	FLC	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Metals

Prep Batch: 469893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	3050B	
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	3050B	
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	3050B	
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	3050B	
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	3050B	
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	3050B	
MB 160-469893/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-469893/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-469893/3-A	Lab Control Sample	Total/NA	Solid	3050B	
400-187320-A-43-K MS	Matrix Spike	Total/NA	Solid	3050B	
400-187320-A-43-L MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 469984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	6020	469893
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	6020	469893
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	6020	469893
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	6020	469893
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	6020	469893
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	6020	469893
MB 160-469893/1-A	Method Blank	Total/NA	Solid	6020	469893
LCS 160-469893/2-A	Lab Control Sample	Total/NA	Solid	6020	469893
LCSSRM 160-469893/3-A	Lab Control Sample	Total/NA	Solid	6020	469893
400-187320-A-43-K MS	Matrix Spike	Total/NA	Solid	6020	469893
400-187320-A-43-L MSD	Matrix Spike Duplicate	Total/NA	Solid	6020	469893

General Chemistry

Analysis Batch: 469480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	Moisture	
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	Moisture	
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	Moisture	
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	Moisture	
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	Moisture	
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	Moisture	
400-187320-B-42 DU	Duplicate	Total/NA	Solid	Moisture	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-469893/1-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469893

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Thorium	0.0894	U	0.199	0.0894	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Uranium	0.0397	U	0.0993	0.0397	mg/Kg		05/08/20 10:12	05/08/20 21:20	2

Lab Sample ID: LCS 160-469893/2-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCSSRM 160-469893/3-A
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469893

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 400-187320-A-43-K MS
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 469893

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Thorium	0.203	J	126	131.1		mg/Kg	☼	104	75 - 125
Uranium	0.0437	U	126	131.7		mg/Kg	☼	104	75 - 125

Lab Sample ID: 400-187320-A-43-L MSD
Matrix: Solid
Analysis Batch: 469984

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 469893

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Thorium	0.203	J	119	118.0		mg/Kg	☼	99	75 - 125	11	30
Uranium	0.0437	U	119	118.2		mg/Kg	☼	100	75 - 125	11	30

3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record



Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283(Tel) Email: laparker@southernco.com Project Name: Plant Watson Site: Plant Watson		Lab PM: Whitmire, Cheyenne R Lab Phone: 400-187407 COC E-Mail: cheyenne.whitmire@testamericainc.com Job #: 400-93871-34057.5 Page: Page 5 of 6 Job #:	
Due Date Requested: per quote TAT Requested (days): per quote PO #: SCS10382606 WO #: 40001674 Project #: 40001674 SSOW#:		Analysis Requested SM4500_S04_E - Sulfate, Total SM4500_S02_D - Sulfide, Total 9315_Ra226, 9320_Ra228 6020 - Uranium & Thorium Ra226Ra228_GFP - Combined Radium-226 and Radium-228 Moisture - Percent Moisture 9315_Ra226 - Radium 226 9320_Ra228 - Radium 228 Ra226Ra228_GFP - Radium 226 + Radium 228 Leach test	
Sample Identification DPT-11-SS Ra U2 DPT-11-SS Ra U3 DPT-12-SS Ra U2 DPT-12-SS Ra U3 DPT-13-SS Ra U2 DPT-13-SS Ra U3		Total Number of Containers Special Instructions/Note: Baton Rouge 218	
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:		Method of Shipment:	
Relinquished by: [Signature] Date: 4/29/2020 12:28 Company: Geomark		Received by: [Signature] Date/Time: 4/29/2020 12:28 Company: Geomark	
Relinquished by: [Signature] Date/Time: 4/29/2020 9:17 Company: Geomark		Received by: [Signature] Date/Time: 4/29/2020 9:27 Company: Geomark	
Relinquished by: [Signature] Date/Time: 4/29/2020 9:17 Company: Geomark		Received by: [Signature] Date/Time: 4/29/2020 9:27 Company: Geomark	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 10°C, 10°C, 10°C	



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Whitmire, Chylene R	Carrier Tracking No(s):	COC No: 400-242389.1																																																																													
Client Contact: Shipping/Receiving		E-Mail: chylene.whitmire@testamericainc.com	State of Origin: Mississippi	Page: Page 1 of 1																																																																													
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 400-187407-1																																																																															
Address: 13715 Rider Trail North, Earth City, MO, 63045		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 - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)																																																																															
PO #:	WO #:	Project #:	Due Date Requested: 5/4/2020																																																																														
SSOW#:		TAT Requested (days):																																																																															
<table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>Moisture/ Percent Moisture</th> <th>6020/3050B, 2% Uranium & Thorium</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>DPT-11-SS RA V2 (400-187407-1)</td> <td>4/27/20</td> <td>12:20 Central</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2</td> <td></td> </tr> <tr> <td>DPT-11-SS RA V3 (400-187407-2)</td> <td>4/27/20</td> <td>12:25 Central</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2</td> <td></td> </tr> <tr> <td>DPT-12-SS RA V2 (400-187407-3)</td> <td>4/27/20</td> <td>15:05 Central</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2</td> <td></td> </tr> <tr> <td>DPT-12-SS RA V3 (400-187407-4)</td> <td>4/27/20</td> <td>15:20 Central</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2</td> <td></td> </tr> <tr> <td>DPT-13-SS RA V2 (400-187407-5)</td> <td>4/28/20</td> <td>10:15 Central</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2</td> <td></td> </tr> <tr> <td>DPT-13-SS RA V3 (400-187407-6)</td> <td>4/28/20</td> <td>11:30 Central</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>2</td> <td></td> </tr> </tbody> </table>					Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6020/3050B, 2% Uranium & Thorium	Total Number of Containers	Special Instructions/Note:	DPT-11-SS RA V2 (400-187407-1)	4/27/20	12:20 Central		Solid	X	X	X	X	2		DPT-11-SS RA V3 (400-187407-2)	4/27/20	12:25 Central		Solid	X	X	X	X	2		DPT-12-SS RA V2 (400-187407-3)	4/27/20	15:05 Central		Solid	X	X	X	X	2		DPT-12-SS RA V3 (400-187407-4)	4/27/20	15:20 Central		Solid	X	X	X	X	2		DPT-13-SS RA V2 (400-187407-5)	4/28/20	10:15 Central		Solid	X	X	X	X	2		DPT-13-SS RA V3 (400-187407-6)	4/28/20	11:30 Central		Solid	X	X	X	X	2	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	6020/3050B, 2% Uranium & Thorium	Total Number of Containers	Special Instructions/Note:																																																																							
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<p>Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p> <p>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</p> <p>Special Instructions/QC Requirements:</p>																																																																																	
<p>Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____</p> <p>Relinquished by: <i>Kathy Owen</i> Date/Time: 4-30-20 1545 Company: <i>ETA</i></p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____</p>																																																																																	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187407-1

SDG Number: Plant Watson

Login Number: 187407

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

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, 0.4°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187407-1

SDG Number: Plant Watson

Login Number: 187407

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/01/20 08:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-1
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

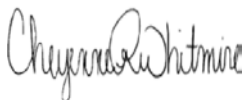
ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-187407-2
Laboratory Sample Delivery Group: Plant Watson
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
6/19/2020 1:16:12 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, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Job ID: 400-187407-2

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

**Job Narrative
400-187407-2**

Receipt Exceptions

A solid 4oz jar container for the following sample was received broken: DPT-12-SS RA V3 (400-187407-4). The sample was transferred to a new container with minimal loss; sufficient sample is remaining for analysis.

Gas Flow Proportional Counter

Method 9315_Ra226: Ra-226 Prep Batch 160-469806 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DPT-11-SS RA V2 (400-187407-1), DPT-11-SS RA V3 (400-187407-2), DPT-12-SS RA V2 (400-187407-3), DPT-12-SS RA V3 (400-187407-4), DPT-13-SS RA V2 (400-187407-5), DPT-13-SS RA V3 (400-187407-6), (LCS 160-469806/1-A), (MB 160-469806/11-A), (400-187320-A-43-F) and (400-187320-A-43-G DU)

Method 9320_Ra228: Radium-228 Prep Batch: 160-469808 Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. DPT-11-SS RA V2 (400-187407-1), DPT-11-SS RA V3 (400-187407-2), DPT-12-SS RA V2 (400-187407-3), DPT-12-SS RA V3 (400-187407-4), DPT-13-SS RA V2 (400-187407-5), DPT-13-SS RA V3 (400-187407-6), (LCS 160-469808/1-A), (MB 160-469808/11-A), (400-187320-A-43-H) and (400-187320-A-43-I DU)



Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

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
DPS-0	Preparation, Digestion/ Precipitate	None	TAL SL
DPS-21	Preparation, Digestion/Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187407-1	DPT-11-SS RA V2	Solid	04/27/20 12:20	04/30/20 09:27	
400-187407-2	DPT-11-SS RA V3	Solid	04/27/20 12:25	04/30/20 09:27	
400-187407-3	DPT-12-SS RA V2	Solid	04/27/20 15:05	04/30/20 09:27	
400-187407-4	DPT-12-SS RA V3	Solid	04/27/20 15:20	04/30/20 09:27	
400-187407-5	DPT-13-SS RA V2	Solid	04/28/20 10:15	04/30/20 09:27	
400-187407-6	DPT-13-SS RA V3	Solid	04/28/20 11:30	04/30/20 09:27	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.02		0.174	0.196	1.00	0.0958	pCi/g	05/07/20 11:59	06/01/20 04:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					05/07/20 11:59	06/01/20 04:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.02		0.332	0.345	1.00	0.441	pCi/g	05/07/20 12:23	05/19/20 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					05/07/20 12:23	05/19/20 14:40	1
Y Carrier	89.0		40 - 110					05/07/20 12:23	05/19/20 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	2.04		0.375	0.397	5.00	0.441	pCi/g		06/01/20 08:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.162		0.0755	0.0769	1.00	0.0817	pCi/g	05/07/20 11:59	06/01/20 04:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					05/07/20 11:59	06/01/20 04:48	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	0.225	0.225	1.00	0.386	pCi/g	05/07/20 12:23	05/19/20 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		40 - 110					05/07/20 12:23	05/19/20 14:40	1
Y Carrier	87.5		40 - 110					05/07/20 12:23	05/19/20 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	0.275	U	0.237	0.238	5.00	0.386	pCi/g		06/01/20 08:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.773		0.150	0.166	1.00	0.0830	pCi/g	05/07/20 11:59	06/01/20 04:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					05/07/20 11:59	06/01/20 04:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.502		0.299	0.302	1.00	0.453	pCi/g	05/07/20 12:23	05/19/20 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					05/07/20 12:23	05/19/20 14:40	1
Y Carrier	86.4		40 - 110					05/07/20 12:23	05/19/20 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	1.28		0.335	0.345	5.00	0.453	pCi/g		06/01/20 08:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0734	U	0.0565	0.0569	1.00	0.0776	pCi/g	05/07/20 11:59	06/01/20 04:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					05/07/20 11:59	06/01/20 04:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.179	U	0.264	0.265	1.00	0.443	pCi/g	05/07/20 12:23	05/19/20 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					05/07/20 12:23	05/19/20 14:40	1
Y Carrier	89.7		40 - 110					05/07/20 12:23	05/19/20 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	0.253	U	0.270	0.271	5.00	0.443	pCi/g		06/01/20 08:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.491		0.121	0.128	1.00	0.0856	pCi/g	05/07/20 11:59	06/01/20 04:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					05/07/20 11:59	06/01/20 04:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.275	U	0.257	0.259	1.00	0.415	pCi/g	05/07/20 12:23	05/19/20 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					05/07/20 12:23	05/19/20 14:41	1
Y Carrier	89.3		40 - 110					05/07/20 12:23	05/19/20 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	0.767		0.284	0.289	5.00	0.415	pCi/g		06/01/20 08:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0634	U	0.0606	0.0608	1.00	0.0933	pCi/g	05/07/20 11:59	06/01/20 04:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					05/07/20 11:59	06/01/20 04:49	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00751	U	0.203	0.203	1.00	0.370	pCi/g	05/07/20 12:23	05/19/20 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		40 - 110					05/07/20 12:23	05/19/20 14:41	1
Y Carrier	86.7		40 - 110					05/07/20 12:23	05/19/20 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	0.0709	U	0.212	0.212	5.00	0.370	pCi/g		06/01/20 08:25	1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:48	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 14:40	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:48	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 14:40	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:49	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 14:40	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:49	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 14:40	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:49	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470898	05/19/20 14:41	CJQ	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	DPS-21			469806	05/07/20 11:59	RBR	TAL SL
Total/NA	Analysis	9315		1	471607	06/01/20 04:49	KLS	TAL SL
Total/NA	Prep	DPS-0			469808	05/07/20 12:23	RBR	TAL SL
Total/NA	Analysis	9320		1	470898	05/19/20 14:41	CJQ	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471613	06/01/20 08:25	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Rad

Prep Batch: 469806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	DPS-21	
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	DPS-21	
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	DPS-21	
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	DPS-21	
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	DPS-21	
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	DPS-21	
MB 160-469806/11-A	Method Blank	Total/NA	Solid	DPS-21	
LCS 160-469806/1-A	Lab Control Sample	Total/NA	Solid	DPS-21	
400-187320-A-43-G DU	Duplicate	Total/NA	Solid	DPS-21	

Prep Batch: 469808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	DPS-0	
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	DPS-0	
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	DPS-0	
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	DPS-0	
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	DPS-0	
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	DPS-0	
MB 160-469808/11-A	Method Blank	Total/NA	Solid	DPS-0	
LCS 160-469808/1-A	Lab Control Sample	Total/NA	Solid	DPS-0	
400-187320-A-43-I DU	Duplicate	Total/NA	Solid	DPS-0	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-469806/11-A
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469806

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.008328	U	0.0616	0.0616	1.00	0.119	pCi/g	05/07/20 11:59	06/01/20 04:49	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					05/07/20 11:59	06/01/20 04:49	1
	88.6									

Lab Sample ID: LCS 160-469806/1-A
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469806

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.26		1.06	1.00	0.105	pCi/g	90	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	91.3		40 - 110						

Lab Sample ID: 400-187320-A-43-G DU
Matrix: Solid
Analysis Batch: 471607

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 469806

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0447	U	0.09564	U	0.0783	1.00	0.116	pCi/g	0.36	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	85.8		40 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-469808/11-A
Matrix: Solid
Analysis Batch: 470898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469808

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.01823	U	0.221	0.221	1.00	0.398	pCi/g	05/07/20 12:23	05/19/20 14:41	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					05/07/20 12:23	05/19/20 14:41	1
Y Carrier	84.5		40 - 110					05/07/20 12:23	05/19/20 14:41	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-469808/1-A
Matrix: Solid
Analysis Batch: 470884

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469808

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.83	6.592		0.864	1.00	0.437	pCi/g	75	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.3		40 - 110
Y Carrier	88.6		40 - 110

Lab Sample ID: 400-187320-A-43-I DU
Matrix: Solid
Analysis Batch: 470884

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 469808

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.179	U	0.3086	U	0.283	1.00	0.453	pCi/g	0.22	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	85.8		40 - 110
Y Carrier	87.1		40 - 110

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187407-2

SDG Number: Plant Watson

Login Number: 187407

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

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, 0.4°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187407-2

SDG Number: Plant Watson

Login Number: 187407

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/01/20 08:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-21
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-2
SDG: Plant Watson

Method: 9315 - Radium-226 (GFPC)

Matrix: Solid

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba Carrier (40-110)	
400-187320-A-43-G DU	Duplicate	85.8	
400-187407-1	DPT-11-SS RA V2	90.0	
400-187407-2	DPT-11-SS RA V3	95.8	
400-187407-3	DPT-12-SS RA V2	88.5	
400-187407-4	DPT-12-SS RA V3	91.3	
400-187407-5	DPT-13-SS RA V2	89.1	
400-187407-6	DPT-13-SS RA V3	91.9	
LCS 160-469806/1-A	Lab Control Sample	91.3	
MB 160-469806/11-A	Method Blank	88.6	
Tracer/Carrier Legend			
Ba Carrier = Ba Carrier			

Method: 9320 - Radium-228 (GFPC)

Matrix: Solid

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba Carrier (40-110)	Y Carrier (40-110)
400-187320-A-43-I DU	Duplicate	85.8	87.1
400-187407-1	DPT-11-SS RA V2	90.0	89.0
400-187407-2	DPT-11-SS RA V3	95.8	87.5
400-187407-3	DPT-12-SS RA V2	88.5	86.4
400-187407-4	DPT-12-SS RA V3	91.3	89.7
400-187407-5	DPT-13-SS RA V2	89.1	89.3
400-187407-6	DPT-13-SS RA V3	89.6	86.7
LCS 160-469808/1-A	Lab Control Sample	91.3	88.6
MB 160-469808/11-A	Method Blank	88.6	84.5
Tracer/Carrier Legend			
Ba Carrier = Ba Carrier			
Y Carrier = Y Carrier			

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-187407-3
Laboratory Sample Delivery Group: Plant Watson
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
6/19/2020 1:16:50 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.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Job ID: 400-187407-3

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-187407-3

Metals

Method 6020: preparation batch 160-471676 and analytical batch 160-471679 Due to linear range check (LRC) failures, the linear range for arsenic (200ppb) and molybdenum (100ppb) has been lowered to the concentration of the highest calibration standard. The LCS and MS/MSD were above the linear range, but were within acceptable recovery limits. (LCSSRM 160-471676/3-A), (400-187320-A-43-O MS) and (400-187320-A-43-P MSD)

Client requested App III metals list added.

- 1
- 2
- 3
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- 13

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SL
3050B	Preparation, Metals	SW846	TAL SL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187407-1	DPT-11-SS RA V2	Solid	04/27/20 12:20	04/30/20 09:27	
400-187407-2	DPT-11-SS RA V3	Solid	04/27/20 12:25	04/30/20 09:27	
400-187407-3	DPT-12-SS RA V2	Solid	04/27/20 15:05	04/30/20 09:27	
400-187407-4	DPT-12-SS RA V3	Solid	04/27/20 15:20	04/30/20 09:27	
400-187407-5	DPT-13-SS RA V2	Solid	04/28/20 10:15	04/30/20 09:27	
400-187407-6	DPT-13-SS RA V3	Solid	04/28/20 11:30	04/30/20 09:27	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 61.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.274	U	0.684	0.274	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Arsenic	9.06		1.37	0.547	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Barium	30.6		2.74	0.684	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Beryllium	1.32		0.137	0.0547	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Cadmium	0.0468	J	0.0684	0.0328	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Chromium	7.85		1.37	0.616	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Cobalt	5.07		0.274	0.103	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Lead	10.6		0.411	0.171	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Lithium	6.72		1.37	0.547	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Molybdenum	1.12		0.684	0.274	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Selenium	2.07		0.684	0.438	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2
Thallium	0.274	U	0.684	0.274	mg/Kg	☼	05/08/20 10:12	05/08/20 23:02	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 81.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.230	U	0.575	0.230	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Arsenic	0.460	U	1.15	0.460	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Barium	6.67		2.30	0.575	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Beryllium	0.0577	J	0.115	0.0460	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Cadmium	0.0276	U	0.0575	0.0276	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Chromium	1.66		1.15	0.517	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Cobalt	0.936		0.230	0.0862	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Lead	2.23		0.345	0.144	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Lithium	1.17		1.15	0.460	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Molybdenum	0.374	J	0.575	0.230	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Selenium	0.368	U	0.575	0.368	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2
Thallium	0.230	U	0.575	0.230	mg/Kg	☼	05/08/20 10:12	05/08/20 23:28	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.229	U	0.573	0.229	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Arsenic	0.803	J	1.15	0.458	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Barium	22.6		2.29	0.573	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Beryllium	0.164		0.115	0.0458	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Cadmium	0.0275	U	0.0573	0.0275	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Chromium	3.12		1.15	0.515	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Cobalt	0.335		0.229	0.0859	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Lead	9.82		0.344	0.143	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Lithium	4.70		1.15	0.458	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Molybdenum	0.263	J	0.573	0.229	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Selenium	0.751		0.573	0.367	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2
Thallium	0.229	U	0.573	0.229	mg/Kg	☼	05/08/20 10:12	05/08/20 23:35	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 82.0

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.221	U	0.552	0.221	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Arsenic	0.441	U	1.10	0.441	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Barium	0.996	J	2.21	0.552	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Beryllium	0.0441	U	0.110	0.0441	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Cadmium	0.0265	U	0.0552	0.0265	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Chromium	0.496	U	1.10	0.496	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Cobalt	0.144	J	0.221	0.0827	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Lead	0.384		0.331	0.138	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Lithium	0.441	U	1.10	0.441	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Molybdenum	0.221	U	0.552	0.221	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Selenium	0.353	U	0.552	0.353	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2
Thallium	0.221	U	0.552	0.221	mg/Kg	☼	05/08/20 10:12	05/08/20 23:42	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 75.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.235	U	0.588	0.235	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Arsenic	0.796	J	1.18	0.470	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Barium	32.8		2.35	0.588	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Beryllium	0.495		0.118	0.0470	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Cadmium	0.0282	U	0.0588	0.0282	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Chromium	7.10		1.18	0.529	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Cobalt	0.968		0.235	0.0882	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Lead	11.4		0.353	0.147	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Lithium	4.62		1.18	0.470	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Molybdenum	0.691		0.588	0.235	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Selenium	1.18		0.588	0.376	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2
Thallium	0.235	U	0.588	0.235	mg/Kg	☼	05/08/20 10:12	05/08/20 23:49	2

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.9

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.232	U	0.581	0.232	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Arsenic	0.464	U	1.16	0.464	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Barium	1.06	J	2.32	0.581	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Beryllium	0.0464	U	0.116	0.0464	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Cadmium	0.0279	U	0.0581	0.0279	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Chromium	0.522	U	1.16	0.522	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Cobalt	0.194	J	0.232	0.0871	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Lead	0.291	J	0.348	0.145	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Lithium	0.464	U	1.16	0.464	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Molybdenum	0.232	U	0.581	0.232	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Selenium	0.372	U	0.581	0.372	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2
Thallium	0.232	U	0.581	0.232	mg/Kg	☼	05/08/20 10:12	05/08/20 23:55	2

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Client Sample ID: DPT-11-SS RA V2

Lab Sample ID: 400-187407-1

Date Collected: 04/27/20 12:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 61.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 23:02	CB	TAL SL

Client Sample ID: DPT-11-SS RA V3

Lab Sample ID: 400-187407-2

Date Collected: 04/27/20 12:25

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 23:28	CB	TAL SL

Client Sample ID: DPT-12-SS RA V2

Lab Sample ID: 400-187407-3

Date Collected: 04/27/20 15:05

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 23:35	CB	TAL SL

Client Sample ID: DPT-12-SS RA V3

Lab Sample ID: 400-187407-4

Date Collected: 04/27/20 15:20

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 23:42	CB	TAL SL

Client Sample ID: DPT-13-SS RA V2

Lab Sample ID: 400-187407-5

Date Collected: 04/28/20 10:15

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 23:49	CB	TAL SL

Client Sample ID: DPT-13-SS RA V3

Lab Sample ID: 400-187407-6

Date Collected: 04/28/20 11:30

Matrix: Solid

Date Received: 04/30/20 09:27

Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			471676	05/08/20 10:12	CB	TAL SL
Total/NA	Analysis	6020		2	471679	05/08/20 23:55	CB	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Metals

Prep Batch: 471676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	3050B	
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	3050B	
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	3050B	
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	3050B	
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	3050B	
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	3050B	
MB 160-471676/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-471676/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-471676/3-A	Lab Control Sample	Total/NA	Solid	3050B	
400-187320-A-43-O MS	Matrix Spike	Total/NA	Solid	3050B	
400-187320-A-43-P MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 471679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187407-1	DPT-11-SS RA V2	Total/NA	Solid	6020	471676
400-187407-2	DPT-11-SS RA V3	Total/NA	Solid	6020	471676
400-187407-3	DPT-12-SS RA V2	Total/NA	Solid	6020	471676
400-187407-4	DPT-12-SS RA V3	Total/NA	Solid	6020	471676
400-187407-5	DPT-13-SS RA V2	Total/NA	Solid	6020	471676
400-187407-6	DPT-13-SS RA V3	Total/NA	Solid	6020	471676
MB 160-471676/1-A	Method Blank	Total/NA	Solid	6020	471676
LCS 160-471676/2-A	Lab Control Sample	Total/NA	Solid	6020	471676
LCSSRM 160-471676/3-A	Lab Control Sample	Total/NA	Solid	6020	471676
400-187320-A-43-O MS	Matrix Spike	Total/NA	Solid	6020	471676
400-187320-A-43-P MSD	Matrix Spike Duplicate	Total/NA	Solid	6020	471676

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-471676/1-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 471676

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.199	U	0.497	0.199	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Arsenic	0.397	U	0.993	0.397	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Barium	0.497	U	1.99	0.497	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Beryllium	0.0397	U	0.0993	0.0397	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Cadmium	0.0238	U	0.0497	0.0238	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Chromium	0.447	U	0.993	0.447	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Cobalt	0.0745	U	0.199	0.0745	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Lead	0.124	U	0.298	0.124	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Lithium	0.397	U	0.993	0.397	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Molybdenum	0.199	U	0.497	0.199	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Selenium	0.318	U	0.497	0.318	mg/Kg		05/08/20 10:12	05/08/20 21:20	2
Thallium	0.199	U	0.497	0.199	mg/Kg		05/08/20 10:12	05/08/20 21:20	2

Lab Sample ID: LCS 160-471676/2-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCSSRM 160-471676/3-A
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471676

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	97.6	108.4		mg/Kg		111.1	70.0 - 130.1
Barium	320	351.3		mg/Kg		109.8	75.0 - 125.0
Beryllium	41.4	45.52		mg/Kg		110.0	75.1 - 125.1
Cadmium	114	119.6		mg/Kg		104.9	75.0 - 125.4
Chromium	147	149.3		mg/Kg		101.6	70.1 - 129.9
Cobalt	46.7	48.41		mg/Kg		103.7	75.2 - 125.1
Lead	105	118.8		mg/Kg		113.1	70.5 - 128.6
Molybdenum	78.8	93.08		mg/Kg		118.1	69.5 - 130.7
Selenium	93.1	102.4		mg/Kg		110.0	64.6 - 135.3
Thallium	104	116.8		mg/Kg		112.3	67.3 - 131.7

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-187320-A-43-O MS
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 471676
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.218	U	63.1	64.78		mg/Kg	☼	103	75 - 125
Arsenic	0.437	U	126	119.8		mg/Kg	☼	95	75 - 125
Barium	1.65	J	126	135.1		mg/Kg	☼	106	75 - 125
Beryllium	0.0437	U	12.6	13.23		mg/Kg	☼	105	75 - 125
Cadmium	0.0262	U	126	132.6		mg/Kg	☼	105	75 - 125
Chromium	0.671	J	126	120.7		mg/Kg	☼	95	75 - 125
Cobalt	0.168	J	126	122.3		mg/Kg	☼	97	75 - 125
Lead	0.536		126	133.2		mg/Kg	☼	105	75 - 125
Lithium	0.437	U	12.6	14.11		mg/Kg	☼	112	75 - 125
Molybdenum	0.218	U	63.1	70.44		mg/Kg	☼	112	75 - 125
Selenium	0.349	U	63.1	56.57		mg/Kg	☼	90	75 - 125
Thallium	0.218	U	25.2	26.38		mg/Kg	☼	105	75 - 125

Lab Sample ID: 400-187320-A-43-P MSD
Matrix: Solid
Analysis Batch: 471679

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 471676
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.218	U	59.3	57.80		mg/Kg	☼	98	75 - 125	11	30
Arsenic	0.437	U	119	111.4		mg/Kg	☼	94	75 - 125	7	30
Barium	1.65	J	119	118.4		mg/Kg	☼	98	75 - 125	13	30
Beryllium	0.0437	U	11.9	11.61		mg/Kg	☼	98	75 - 125	13	30
Cadmium	0.0262	U	119	119.8		mg/Kg	☼	101	75 - 125	10	30
Chromium	0.671	J	119	111.5		mg/Kg	☼	94	75 - 125	8	30
Cobalt	0.168	J	119	115.1		mg/Kg	☼	97	75 - 125	6	30
Lead	0.536		119	118.8		mg/Kg	☼	100	75 - 125	11	30
Lithium	0.437	U	11.9	12.29		mg/Kg	☼	104	75 - 125	14	30
Molybdenum	0.218	U	59.3	62.69		mg/Kg	☼	106	75 - 125	12	30
Selenium	0.349	U	59.3	53.16		mg/Kg	☼	90	75 - 125	6	30
Thallium	0.218	U	23.7	23.96		mg/Kg	☼	101	75 - 125	10	30

Chain of Custody Record



Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283(Tel) Email: laparker@southernco.com Project Name: Plant Watson Site: Plant Watson		Lab PM: Whitmire, Cheyenne R Lab Phone: 400-187407 COC E-Mail: cheyenne.whitmire@testamericainc.com Job #:																		
Due Date Requested: per quote TAT Requested (days): per quote PO #: SCS10382606 WO #: 40001674 Project #: 40001674 SOW #:		COC No: 400-93871-34057.5 Page: Page 5 of 6 Job #:																		
Sample Identification		Analysis Requested																		
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034 Calc. AVS, Moisture	SM4500_S04_E - Sulfate, Total	SM4500_S2_D - Sulfide, Total	9315 Ra226, 9320 Ra228	6020 - Uranium & Thorium	Ra226Ra228 GFC - Combined Radium-226 and Radium-228	Moisture - Percent Moisture	9315 Ra226 - Radium 226	9320 Ra228 - Radium 228	Ra226Ra228 GFC - Radium 226 + Radium 228	Leach test	Total Number of Containers	Special Instructions/Note:
DPT-11-SS Ra U2	4/27/20	1220	C	Solid		N														Baton Rouge 218
DPT-11-SS Ra U3		1225	C	Solid		N														
DPT-12-SS Ra U2		1505	C	Solid		N														
DPT-12-SS Ra U3		1520	C	Solid		N														
DPT-13-SS Ra U2	4/28/20	1015	C	Solid		N														
DPT-13-SS Ra U3		1130	C	Solid		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:																				
Relinquished by: [Signature] Date: 4/29/2020 12:28 Relinquished by: [Signature] Date: 4/29/2020 9:11 Relinquished by: [Signature] Date: 4/29/2020 9:27																				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:																				
Cooler Temperature(s) °C and Other Remarks:																				



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187407-3

SDG Number: Plant Watson

Login Number: 187407

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Perez, Trina M

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, 0.4°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-187407-3

SDG Number: Plant Watson

Login Number: 187407

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/01/20 08:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-20
West Virginia DEP	State	136	06-30-20



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-187407-3
SDG: Plant Watson

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	05-14-20
ANAB	Dept. of Energy	L2305.01	05-14-20
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

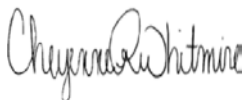
ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-189739-1
Laboratory SDG: Plant Watson Background Wells
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
7/27/2020 10:25:41 AM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@Eurofinset.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Job ID: 400-189739-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-189739-1

RAD

Method 9320: Radium-228 Prep Batch 160-474969. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-13-U2-061620 (400-189739-1), APMW-13-U3-061620 (400-189739-2), APMW-14-U2-061620 (400-189739-3), APMW-14-U3-061620 (400-189739-4), APMW-15-U2-061720 (400-189739-5), APMW-15-U3-061720 (400-189739-6), APMW-16-U2-061720 (400-189739-7), APMW-16-U3-061720 (400-189739-8), (LCS 160-474969/1-A), (MB 160-474969/11-A) and (400-189739-A-1-I DU)

Method DPS-0: Radium 228 Prep Batch 160-474969. The following samples could not be thoroughly homogenized before sub-sampling was performed due to sample matrix: APMW-13-U2-061620 (400-189739-1), APMW-13-U3-061620 (400-189739-2), APMW-14-U3-061620 (400-189739-4), APMW-15-U3-061720 (400-189739-6), APMW-16-U2-061720 (400-189739-7), APMW-16-U3-061720 (400-189739-8) and (400-189739-A-1-E DU). The samples contained rocks of varying sizes.

Method DPS-21: Radium 226 Prep Batch 160-474968. The following samples could not be thoroughly homogenized before sub-sampling was performed due to sample matrix: APMW-13-U2-061620 (400-189739-1), APMW-13-U3-061620 (400-189739-2), APMW-14-U3-061620 (400-189739-4), APMW-15-U3-061720 (400-189739-6), APMW-16-U2-061720 (400-189739-7) and APMW-16-U3-061720 (400-189739-8). The samples contained rocks of varying sizes.

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
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
3050B	Preparation, Metals	SW846	TAL SL
DPS-0	Preparation, Digestion/ Precipitate	None	TAL SL
DPS-21	Preparation, Digestion/Precipitate Separation (21-Day In-Growth)	None	TAL SL
Dry and Grind	Preparation, Dry and Grind	None	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-189739-1	APMW-13-U2-061620	Solid	06/16/20 09:40	06/19/20 09:21	
400-189739-2	APMW-13-U3-061620	Solid	06/16/20 09:50	06/19/20 09:21	
400-189739-3	APMW-14-U2-061620	Solid	06/16/20 14:45	06/19/20 09:21	
400-189739-4	APMW-14-U3-061620	Solid	06/16/20 14:50	06/19/20 09:21	
400-189739-5	APMW-15-U2-061720	Solid	06/17/20 13:15	06/19/20 09:21	
400-189739-6	APMW-15-U3-061720	Solid	06/17/20 14:45	06/19/20 09:21	
400-189739-7	APMW-16-U2-061720	Solid	06/17/20 17:55	06/19/20 09:21	
400-189739-8	APMW-16-U3-061720	Solid	06/17/20 18:00	06/19/20 09:21	

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-13-U2-061620

Lab Sample ID: 400-189739-1

Date Collected: 06/16/20 09:40

Matrix: Solid

Date Received: 06/19/20 09:21

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.322		0.117	0.120	1.00	0.126	pCi/g	06/30/20 10:21	07/23/20 06:02	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	89.3		40 - 110					06/30/20 10:21	07/23/20 06:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.184	U	0.219	0.219	1.00	0.361	pCi/g	06/30/20 10:38	07/14/20 14:07	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	89.3		40 - 110					06/30/20 10:38	07/14/20 14:07	1
Y Carrier	88.2		40 - 110					06/30/20 10:38	07/14/20 14:07	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	0.506		0.25	0.25	5.00	0.361	pCi/g		07/24/20 10:54	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-13-U2-061620

Lab Sample ID: 400-189739-1

Date Collected: 06/16/20 09:40

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 86.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	1.72		0.216	0.0970	mg/Kg	☼	06/23/20 10:42	06/24/20 21:00	2
Uranium	0.246		0.108	0.0431	mg/Kg	☼	06/23/20 10:42	06/24/20 21:00	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-13-U3-061620

Lab Sample ID: 400-189739-2

Date Collected: 06/16/20 09:50

Matrix: Solid

Date Received: 06/19/20 09:21

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.224		0.0984	0.100	1.00	0.113	pCi/g	06/30/20 10:21	07/23/20 06:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					06/30/20 10:21	07/23/20 06:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.170	U	0.216	0.216	1.00	0.358	pCi/g	06/30/20 10:38	07/14/20 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					06/30/20 10:38	07/14/20 14:07	1
Y Carrier	90.8		40 - 110					06/30/20 10:38	07/14/20 14:07	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	0.394		0.2	0.2	5.00	0.358	pCi/g		07/24/20 10:54	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-13-U3-061620

Lab Sample ID: 400-189739-2

Date Collected: 06/16/20 09:50

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 79.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.496		0.218	0.0982	mg/Kg	☼	06/23/20 10:42	06/24/20 21:53	2
Uranium	0.114		0.109	0.0437	mg/Kg	☼	06/23/20 10:42	06/24/20 21:53	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-14-U2-061620

Lab Sample ID: 400-189739-3

Date Collected: 06/16/20 14:45

Matrix: Solid

Date Received: 06/19/20 09:21

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		0.0819	0.0834	1.00	0.0911	pCi/g	06/30/20 10:21	07/23/20 06:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					06/30/20 10:21	07/23/20 06:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.219	U	0.215	0.216	1.00	0.348	pCi/g	06/30/20 10:38	07/14/20 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					06/30/20 10:38	07/14/20 14:08	1
Y Carrier	89.7		40 - 110					06/30/20 10:38	07/14/20 14:08	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	0.393		0.230	0.232	5.00	0.348	pCi/g		07/24/20 10:54	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-14-U2-061620

Lab Sample ID: 400-189739-3

Date Collected: 06/16/20 14:45

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 70.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.717		0.260	0.117	mg/Kg	☼	06/23/20 10:42	06/24/20 22:00	2
Uranium	0.327		0.130	0.0521	mg/Kg	☼	06/23/20 10:42	06/24/20 22:00	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-14-U3-061620

Lab Sample ID: 400-189739-4

Date Collected: 06/16/20 14:50

Matrix: Solid

Date Received: 06/19/20 09:21

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		0.0922	0.0944	1.00	0.0869	pCi/g	06/30/20 10:21	07/23/20 06:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					06/30/20 10:21	07/23/20 06:10	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.290	U	0.262	0.263	1.00	0.421	pCi/g	06/30/20 10:38	07/14/20 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					06/30/20 10:38	07/14/20 14:08	1
Y Carrier	86.7		40 - 110					06/30/20 10:38	07/14/20 14:08	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	0.517		0.278	0.279	5.00	0.421	pCi/g		07/24/20 10:54	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-14-U3-061620

Lab Sample ID: 400-189739-4

Date Collected: 06/16/20 14:50

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 79.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	0.734		0.225	0.101	mg/Kg	☼	06/23/20 10:42	06/24/20 22:07	2
Uranium	0.184		0.113	0.0450	mg/Kg	☼	06/23/20 10:42	06/24/20 22:07	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-15-U2-061720

Lab Sample ID: 400-189739-5

Date Collected: 06/17/20 13:15

Matrix: Solid

Date Received: 06/19/20 09:21

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.406		0.110	0.116	1.00	0.0710	pCi/g	06/30/20 10:21	07/23/20 06:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					06/30/20 10:21	07/23/20 06:10	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.495		0.281	0.285	1.00	0.430	pCi/g	06/30/20 10:38	07/14/20 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					06/30/20 10:38	07/14/20 14:08	1
Y Carrier	91.2		40 - 110					06/30/20 10:38	07/14/20 14:08	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	0.901		0.302	0.308	5.00	0.430	pCi/g		07/24/20 10:54	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-15-U2-061720

Lab Sample ID: 400-189739-5

Date Collected: 06/17/20 13:15

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 70.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	3.09		0.263	0.118	mg/Kg	☼	06/23/20 10:42	06/24/20 22:14	2
Uranium	0.891		0.132	0.0526	mg/Kg	☼	06/23/20 10:42	06/24/20 22:14	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-15-U3-061720

Lab Sample ID: 400-189739-6

Date Collected: 06/17/20 14:45

Matrix: Solid

Date Received: 06/19/20 09:21

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.685		0.139	0.152	1.00	0.0714	pCi/g	06/30/20 10:21	07/23/20 06:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					06/30/20 10:21	07/23/20 06:10	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.657		0.251	0.258	1.00	0.350	pCi/g	06/30/20 10:38	07/14/20 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					06/30/20 10:38	07/14/20 14:08	1
Y Carrier	94.2		40 - 110					06/30/20 10:38	07/14/20 14:08	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	1.34		0.287	0.299	5.00	0.350	pCi/g		07/24/20 10:54	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-15-U3-061720

Lab Sample ID: 400-189739-6

Date Collected: 06/17/20 14:45

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 79.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.52		0.231	0.104	mg/Kg	☼	06/23/20 10:42	06/24/20 22:20	2
Uranium	0.564		0.115	0.0462	mg/Kg	☼	06/23/20 10:42	06/24/20 22:20	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-16-U2-061720

Lab Sample ID: 400-189739-7

Date Collected: 06/17/20 17:55

Matrix: Solid

Date Received: 06/19/20 09:21

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.415		0.114	0.120	1.00	0.0799	pCi/g	06/30/20 10:21	07/23/20 06:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		40 - 110					06/30/20 10:21	07/23/20 06:10	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.578		0.259	0.264	1.00	0.372	pCi/g	06/30/20 10:38	07/14/20 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		40 - 110					06/30/20 10:38	07/14/20 14:08	1
Y Carrier	88.2		40 - 110					06/30/20 10:38	07/14/20 14:08	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	0.993		0.28	0.29	5.00	0.372	pCi/g		07/24/20 10:54	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-16-U2-061720

Lab Sample ID: 400-189739-7

Date Collected: 06/17/20 17:55

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 60.6

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	3.54		0.299	0.135	mg/Kg	☼	06/23/20 10:42	06/24/20 22:27	2
Uranium	1.72		0.150	0.0599	mg/Kg	☼	06/23/20 10:42	06/24/20 22:27	2

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-16-U3-061720

Lab Sample ID: 400-189739-8

Date Collected: 06/17/20 18:00

Matrix: Solid

Date Received: 06/19/20 09:21

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.208		0.0925	0.0944	1.00	0.103	pCi/g	06/30/20 10:21	07/23/20 07:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					06/30/20 10:21	07/23/20 07:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.260	U	0.219	0.220	1.00	0.348	pCi/g	06/30/20 10:38	07/14/20 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					06/30/20 10:38	07/14/20 14:08	1
Y Carrier	94.2		40 - 110					06/30/20 10:38	07/14/20 14:08	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	0.468		0.24	0.24	5.00	0.348	pCi/g		07/24/20 10:54	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-16-U3-061720

Lab Sample ID: 400-189739-8

Date Collected: 06/17/20 18:00

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 77.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	1.84		0.244	0.110	mg/Kg	☼	06/23/20 10:42	06/24/20 22:34	2
Uranium	0.538		0.122	0.0487	mg/Kg	☼	06/23/20 10:42	06/24/20 22:34	2

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-13-U2-061620

Lab Sample ID: 400-189739-1

Date Collected: 06/16/20 09:40

Matrix: Solid

Date Received: 06/19/20 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475041	07/01/20 11:45	RJD	TAL SL
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-21			474968	06/30/20 10:21	RBR	TAL SL
Total/NA	Analysis	9315		1	477281	07/23/20 06:02	JLC	TAL SL
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-0			474969	06/30/20 10:38	RBR	TAL SL
Total/NA	Analysis	9320		1	476302	07/14/20 14:07	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	477404	07/24/20 10:54	SMP	TAL SL

Client Sample ID: APMW-13-U2-061620

Lab Sample ID: 400-189739-1

Date Collected: 06/16/20 09:40

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			474061	06/23/20 10:42	DAS	TAL SL
Total/NA	Analysis	6020		2	474462	06/24/20 21:00	CB	TAL SL

Client Sample ID: APMW-13-U3-061620

Lab Sample ID: 400-189739-2

Date Collected: 06/16/20 09:50

Matrix: Solid

Date Received: 06/19/20 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475041	07/01/20 11:45	RJD	TAL SL
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-21			474968	06/30/20 10:21	RBR	TAL SL
Total/NA	Analysis	9315		1	477235	07/23/20 06:09	JLC	TAL SL
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-0			474969	06/30/20 10:38	RBR	TAL SL
Total/NA	Analysis	9320		1	476302	07/14/20 14:07	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	477404	07/24/20 10:54	SMP	TAL SL

Client Sample ID: APMW-13-U3-061620

Lab Sample ID: 400-189739-2

Date Collected: 06/16/20 09:50

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			474061	06/23/20 10:42	DAS	TAL SL
Total/NA	Analysis	6020		2	474462	06/24/20 21:53	CB	TAL SL

Client Sample ID: APMW-14-U2-061620

Lab Sample ID: 400-189739-3

Date Collected: 06/16/20 14:45

Matrix: Solid

Date Received: 06/19/20 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475041	07/01/20 11:45	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-14-U2-061620

Lab Sample ID: 400-189739-3

Date Collected: 06/16/20 14:45

Matrix: Solid

Date Received: 06/19/20 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-21			474968	06/30/20 10:21	RBR	TAL SL
Total/NA	Analysis	9315		1	477235	07/23/20 06:09	JLC	TAL SL
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-0			474969	06/30/20 10:38	RBR	TAL SL
Total/NA	Analysis	9320		1	476302	07/14/20 14:08	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	477404	07/24/20 10:54	SMP	TAL SL

Client Sample ID: APMW-14-U2-061620

Lab Sample ID: 400-189739-3

Date Collected: 06/16/20 14:45

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 70.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			474061	06/23/20 10:42	DAS	TAL SL
Total/NA	Analysis	6020		2	474462	06/24/20 22:00	CB	TAL SL

Client Sample ID: APMW-14-U3-061620

Lab Sample ID: 400-189739-4

Date Collected: 06/16/20 14:50

Matrix: Solid

Date Received: 06/19/20 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475041	07/01/20 11:45	RJD	TAL SL
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-21			474968	06/30/20 10:21	RBR	TAL SL
Total/NA	Analysis	9315		1	477235	07/23/20 06:10	JLC	TAL SL
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-0			474969	06/30/20 10:38	RBR	TAL SL
Total/NA	Analysis	9320		1	476302	07/14/20 14:08	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	477404	07/24/20 10:54	SMP	TAL SL

Client Sample ID: APMW-14-U3-061620

Lab Sample ID: 400-189739-4

Date Collected: 06/16/20 14:50

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			474061	06/23/20 10:42	DAS	TAL SL
Total/NA	Analysis	6020		2	474462	06/24/20 22:07	CB	TAL SL

Client Sample ID: APMW-15-U2-061720

Lab Sample ID: 400-189739-5

Date Collected: 06/17/20 13:15

Matrix: Solid

Date Received: 06/19/20 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475041	07/01/20 11:45	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-15-U2-061720

Lab Sample ID: 400-189739-5

Date Collected: 06/17/20 13:15

Matrix: Solid

Date Received: 06/19/20 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-21			474968	06/30/20 10:21	RBR	TAL SL
Total/NA	Analysis	9315		1	477235	07/23/20 06:10	JLC	TAL SL
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-0			474969	06/30/20 10:38	RBR	TAL SL
Total/NA	Analysis	9320		1	476302	07/14/20 14:08	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	477404	07/24/20 10:54	SMP	TAL SL

Client Sample ID: APMW-15-U2-061720

Lab Sample ID: 400-189739-5

Date Collected: 06/17/20 13:15

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 70.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			474061	06/23/20 10:42	DAS	TAL SL
Total/NA	Analysis	6020		2	474462	06/24/20 22:14	CB	TAL SL

Client Sample ID: APMW-15-U3-061720

Lab Sample ID: 400-189739-6

Date Collected: 06/17/20 14:45

Matrix: Solid

Date Received: 06/19/20 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475041	07/01/20 11:45	RJD	TAL SL
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-21			474968	06/30/20 10:21	RBR	TAL SL
Total/NA	Analysis	9315		1	477235	07/23/20 06:10	JLC	TAL SL
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-0			474969	06/30/20 10:38	RBR	TAL SL
Total/NA	Analysis	9320		1	476302	07/14/20 14:08	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	477404	07/24/20 10:54	SMP	TAL SL

Client Sample ID: APMW-15-U3-061720

Lab Sample ID: 400-189739-6

Date Collected: 06/17/20 14:45

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			474061	06/23/20 10:42	DAS	TAL SL
Total/NA	Analysis	6020		2	474462	06/24/20 22:20	CB	TAL SL

Client Sample ID: APMW-16-U2-061720

Lab Sample ID: 400-189739-7

Date Collected: 06/17/20 17:55

Matrix: Solid

Date Received: 06/19/20 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475041	07/01/20 11:45	RJD	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Client Sample ID: APMW-16-U2-061720

Lab Sample ID: 400-189739-7

Date Collected: 06/17/20 17:55

Matrix: Solid

Date Received: 06/19/20 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-21			474968	06/30/20 10:21	RBR	TAL SL
Total/NA	Analysis	9315		1	477235	07/23/20 06:10	JLC	TAL SL
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-0			474969	06/30/20 10:38	RBR	TAL SL
Total/NA	Analysis	9320		1	476302	07/14/20 14:08	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	477404	07/24/20 10:54	SMP	TAL SL

Client Sample ID: APMW-16-U2-061720

Lab Sample ID: 400-189739-7

Date Collected: 06/17/20 17:55

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 60.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			474061	06/23/20 10:42	DAS	TAL SL
Total/NA	Analysis	6020		2	474462	06/24/20 22:27	CB	TAL SL

Client Sample ID: APMW-16-U3-061720

Lab Sample ID: 400-189739-8

Date Collected: 06/17/20 18:00

Matrix: Solid

Date Received: 06/19/20 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	475041	07/01/20 11:45	RJD	TAL SL
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-21			474968	06/30/20 10:21	RBR	TAL SL
Total/NA	Analysis	9315		1	477281	07/23/20 07:47	JLC	TAL SL
Total/NA	Leach	Dry and Grind			474747	06/26/20 19:41	TCD	TAL SL
Total/NA	Prep	DPS-0			474969	06/30/20 10:38	RBR	TAL SL
Total/NA	Analysis	9320		1	476302	07/14/20 14:08	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	477404	07/24/20 10:54	SMP	TAL SL

Client Sample ID: APMW-16-U3-061720

Lab Sample ID: 400-189739-8

Date Collected: 06/17/20 18:00

Matrix: Solid

Date Received: 06/19/20 09:21

Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			474061	06/23/20 10:42	DAS	TAL SL
Total/NA	Analysis	6020		2	474462	06/24/20 22:34	CB	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Metals

Prep Batch: 474061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-189739-1	APMW-13-U2-061620	Total/NA	Solid	3050B	
400-189739-2	APMW-13-U3-061620	Total/NA	Solid	3050B	
400-189739-3	APMW-14-U2-061620	Total/NA	Solid	3050B	
400-189739-4	APMW-14-U3-061620	Total/NA	Solid	3050B	
400-189739-5	APMW-15-U2-061720	Total/NA	Solid	3050B	
400-189739-6	APMW-15-U3-061720	Total/NA	Solid	3050B	
400-189739-7	APMW-16-U2-061720	Total/NA	Solid	3050B	
400-189739-8	APMW-16-U3-061720	Total/NA	Solid	3050B	
MB 160-474061/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-474061/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-474061/4-A	Lab Control Sample	Total/NA	Solid	3050B	
400-189739-1 MS	APMW-13-U2-061620	Total/NA	Solid	3050B	
400-189739-1 MSD	APMW-13-U2-061620	Total/NA	Solid	3050B	

Analysis Batch: 474462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-189739-1	APMW-13-U2-061620	Total/NA	Solid	6020	474061
400-189739-2	APMW-13-U3-061620	Total/NA	Solid	6020	474061
400-189739-3	APMW-14-U2-061620	Total/NA	Solid	6020	474061
400-189739-4	APMW-14-U3-061620	Total/NA	Solid	6020	474061
400-189739-5	APMW-15-U2-061720	Total/NA	Solid	6020	474061
400-189739-6	APMW-15-U3-061720	Total/NA	Solid	6020	474061
400-189739-7	APMW-16-U2-061720	Total/NA	Solid	6020	474061
400-189739-8	APMW-16-U3-061720	Total/NA	Solid	6020	474061
MB 160-474061/1-A	Method Blank	Total/NA	Solid	6020	474061
LCS 160-474061/2-A	Lab Control Sample	Total/NA	Solid	6020	474061
LCSSRM 160-474061/4-A	Lab Control Sample	Total/NA	Solid	6020	474061
400-189739-1 MS	APMW-13-U2-061620	Total/NA	Solid	6020	474061
400-189739-1 MSD	APMW-13-U2-061620	Total/NA	Solid	6020	474061

General Chemistry

Analysis Batch: 475041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-189739-1	APMW-13-U2-061620	Total/NA	Solid	Moisture	
400-189739-2	APMW-13-U3-061620	Total/NA	Solid	Moisture	
400-189739-3	APMW-14-U2-061620	Total/NA	Solid	Moisture	
400-189739-4	APMW-14-U3-061620	Total/NA	Solid	Moisture	
400-189739-5	APMW-15-U2-061720	Total/NA	Solid	Moisture	
400-189739-6	APMW-15-U3-061720	Total/NA	Solid	Moisture	
400-189739-7	APMW-16-U2-061720	Total/NA	Solid	Moisture	
400-189739-8	APMW-16-U3-061720	Total/NA	Solid	Moisture	
160-38566-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Rad

Leach Batch: 474747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-189739-1	APMW-13-U2-061620	Total/NA	Solid	Dry and Grind	
400-189739-2	APMW-13-U3-061620	Total/NA	Solid	Dry and Grind	
400-189739-3	APMW-14-U2-061620	Total/NA	Solid	Dry and Grind	
400-189739-4	APMW-14-U3-061620	Total/NA	Solid	Dry and Grind	

Eurofins TestAmerica, Pensacola

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Rad (Continued)

Leach Batch: 474747 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-189739-5	APMW-15-U2-061720	Total/NA	Solid	Dry and Grind	
400-189739-6	APMW-15-U3-061720	Total/NA	Solid	Dry and Grind	
400-189739-7	APMW-16-U2-061720	Total/NA	Solid	Dry and Grind	
400-189739-8	APMW-16-U3-061720	Total/NA	Solid	Dry and Grind	
400-189739-1 DU	APMW-13-U2-061620	Total/NA	Solid	Dry and Grind	

Prep Batch: 474968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-189739-1	APMW-13-U2-061620	Total/NA	Solid	DPS-21	474747
400-189739-2	APMW-13-U3-061620	Total/NA	Solid	DPS-21	474747
400-189739-3	APMW-14-U2-061620	Total/NA	Solid	DPS-21	474747
400-189739-4	APMW-14-U3-061620	Total/NA	Solid	DPS-21	474747
400-189739-5	APMW-15-U2-061720	Total/NA	Solid	DPS-21	474747
400-189739-6	APMW-15-U3-061720	Total/NA	Solid	DPS-21	474747
400-189739-7	APMW-16-U2-061720	Total/NA	Solid	DPS-21	474747
400-189739-8	APMW-16-U3-061720	Total/NA	Solid	DPS-21	474747
MB 160-474968/11-A	Method Blank	Total/NA	Solid	DPS-21	
LCS 160-474968/1-A	Lab Control Sample	Total/NA	Solid	DPS-21	
400-189739-1 DU	APMW-13-U2-061620	Total/NA	Solid	DPS-21	474747

Prep Batch: 474969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-189739-1	APMW-13-U2-061620	Total/NA	Solid	DPS-0	474747
400-189739-2	APMW-13-U3-061620	Total/NA	Solid	DPS-0	474747
400-189739-3	APMW-14-U2-061620	Total/NA	Solid	DPS-0	474747
400-189739-4	APMW-14-U3-061620	Total/NA	Solid	DPS-0	474747
400-189739-5	APMW-15-U2-061720	Total/NA	Solid	DPS-0	474747
400-189739-6	APMW-15-U3-061720	Total/NA	Solid	DPS-0	474747
400-189739-7	APMW-16-U2-061720	Total/NA	Solid	DPS-0	474747
400-189739-8	APMW-16-U3-061720	Total/NA	Solid	DPS-0	474747
MB 160-474969/11-A	Method Blank	Total/NA	Solid	DPS-0	
LCS 160-474969/1-A	Lab Control Sample	Total/NA	Solid	DPS-0	
400-189739-1 DU	APMW-13-U2-061620	Total/NA	Solid	DPS-0	474747

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-474061/1-A
Matrix: Solid
Analysis Batch: 474462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474061

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Thorium	0.0826	U	0.184	0.0826	mg/Kg		06/23/20 10:42	06/24/20 20:40	2
Uranium	0.0367	U	0.0918	0.0367	mg/Kg		06/23/20 10:42	06/24/20 20:40	2

Lab Sample ID: LCS 160-474061/2-A
Matrix: Solid
Analysis Batch: 474462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCSSRM 160-474061/4-A
Matrix: Solid
Analysis Batch: 474462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474061

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 400-189739-1 MS
Matrix: Solid
Analysis Batch: 474462

Client Sample ID: APMW-13-U2-061620
Prep Type: Total/NA
Prep Batch: 474061

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	0.246		98.1	97.16		mg/Kg	☼	99	75 - 125

Lab Sample ID: 400-189739-1 MSD
Matrix: Solid
Analysis Batch: 474462

Client Sample ID: APMW-13-U2-061620
Prep Type: Total/NA
Prep Batch: 474061

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Uranium	0.246		113	112.9		mg/Kg	☼	100	75 - 125	15	30

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-474968/11-A
Matrix: Solid
Analysis Batch: 477281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474968

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-226	0.1887		0.0989	0.100	1.00	0.128	pCi/g	06/30/20 10:21	07/23/20 07:47	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		40 - 110						06/30/20 10:21

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-474968/1-A
Matrix: Solid
Analysis Batch: 477281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474968

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-226	11.3	9.776		1.03	1.00	0.102	pCi/g	86	75	125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	92.9		40 - 110							

Lab Sample ID: 400-189739-1 DU
Matrix: Solid
Analysis Batch: 477281

Client Sample ID: APMW-13-U2-061620
Prep Type: Total/NA
Prep Batch: 474968

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
										1
Radium-226	0.322		0.3319		0.111	1.00	0.0999	pCi/g	0.04	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	95.5		40 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-474969/11-A
Matrix: Solid
Analysis Batch: 476302

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474969

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								06/30/20 10:38	07/14/20 14:09	07/14/20 14:09	14:09	
Radium-228	-0.07430	U	0.208	0.208	1.00	0.389	pCi/g	06/30/20 10:38	07/14/20 14:09	07/14/20 14:09	14:09	1
Carrier	MB %Yield	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac				
Ba Carrier	89.0		40 - 110			06/30/20 10:38	07/14/20 14:09	1				
Y Carrier	89.0		40 - 110			06/30/20 10:38	07/14/20 14:09	1				

Lab Sample ID: LCS 160-474969/1-A
Matrix: Solid
Analysis Batch: 476302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474969

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	10.3	9.075		1.07	1.00	0.433	pCi/g	88	75	125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	92.9		40 - 110							
Y Carrier	87.1		40 - 110							

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 400-189739-1 DU
Matrix: Solid
Analysis Batch: 476302

Client Sample ID: APMW-13-U2-061620
Prep Type: Total/NA
Prep Batch: 474969

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.184	U	0.2219	U	0.223	1.00	0.360	pCi/g	0.09	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	95.5		40 - 110
Y Carrier	86.7		40 - 110

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-189739-1

SDG Number: Plant Watson Background Wells

Login Number: 189739

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Conrady, Hank W

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 IR-9
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	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-189739-1

SDG Number: Plant Watson Background Wells

Login Number: 189739

List Number: 2

Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 06/22/20 10:51 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-189739-1
SDG: Plant Watson Background Wells

Method: 9315 - Radium-226 (GFPC)

Matrix: Solid

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
400-189739-1	APMW-13-U2-061620	89.3	
400-189739-1 DU	APMW-13-U2-061620	95.5	
400-189739-2	APMW-13-U3-061620	89.9	
400-189739-3	APMW-14-U2-061620	92.6	
400-189739-4	APMW-14-U3-061620	85.4	
400-189739-5	APMW-15-U2-061720	98.5	
400-189739-6	APMW-15-U3-061720	99.7	
400-189739-7	APMW-16-U2-061720	96.4	
400-189739-8	APMW-16-U3-061720	92.3	
LCS 160-474968/1-A	Lab Control Sample	92.9	
MB 160-474968/11-A	Method Blank	89.0	

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Solid

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
400-189739-1	APMW-13-U2-061620	89.3	88.2
400-189739-1 DU	APMW-13-U2-061620	95.5	86.7
400-189739-2	APMW-13-U3-061620	89.9	90.8
400-189739-3	APMW-14-U2-061620	92.6	89.7
400-189739-4	APMW-14-U3-061620	85.5	86.7
400-189739-5	APMW-15-U2-061720	98.5	91.2
400-189739-6	APMW-15-U3-061720	99.7	94.2
400-189739-7	APMW-16-U2-061720	96.4	88.2
400-189739-8	APMW-16-U3-061720	92.3	94.2
LCS 160-474969/1-A	Lab Control Sample	92.9	87.1
MB 160-474969/11-A	Method Blank	89.0	89.0

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-191180-1
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
8/4/2020 5:47:52 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@Eurofinset.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.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Job ID: 400-191180-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-191180-1

Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-497609 and analytical batch 400-498115 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 6020: The method blank for preparation batch 400-497609 and analytical batch 400-498263 contained Arsenic above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The following samples were diluted due to the nature of the sample matrix: APMW-13 (400-191180-1), APMW-14 (400-191180-2) and APMW-15 (400-191180-3). Elevated reporting limits (RLs) are provided.

General Chemistry

Method SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-498073 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 SM 4500 Cl- E: The following sample was diluted to bring the concentration of target analytes within the calibration range: APMW-15 (400-191180-3). Elevated reporting limits (RLs) are provided.

Method SM 4500 SO4 E: The method blank for analytical batch 400-498922 contained Sulfate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: APMW-14 (400-191180-2), (400-191209-G-9), (400-191209-G-9 MS) and (400-191209-G-9 MSD). Elevated reporting limits (RLs) are provided.

Method SM 4500 SO4 E: Due to the concentration of sulfates in the parent sample the MS/MSD was diluted after the spike. The spike amount was adjusted by the dilution factor. (400-191209-G-9 MS) and (400-191209-G-9 MSD)

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN
Field Sampling	Field Sampling	EPA	TAL PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-191180-1	APMW-13	Water	07/21/20 11:10	07/22/20 11:00	
400-191180-2	APMW-14	Water	07/21/20 12:50	07/22/20 11:00	
400-191180-3	APMW-15	Water	07/21/20 14:30	07/22/20 11:00	

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Client Sample ID: APMW-13

Lab Sample ID: 400-191180-1

Date Collected: 07/21/20 11:10

Matrix: Water

Date Received: 07/22/20 11:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		07/23/20 09:45	07/27/20 19:16	5
Arsenic	0.000390	U	0.00125	0.000390	mg/L		07/23/20 09:45	07/28/20 16:41	5
Barium	0.212		0.00250	0.000700	mg/L		07/23/20 09:45	07/28/20 16:41	5
Beryllium	0.000170	U	0.00250	0.000170	mg/L		07/23/20 09:45	07/28/20 16:37	5
Boron	0.580		0.0500	0.0180	mg/L		07/23/20 09:45	07/29/20 18:11	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		07/23/20 09:45	07/27/20 19:16	5
Calcium	97.7		1.25	0.625	mg/L		07/23/20 09:45	07/29/20 18:15	25
Chromium	0.00100	U	0.00250	0.00100	mg/L		07/23/20 09:45	07/27/20 19:16	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		07/23/20 09:45	07/27/20 19:16	5
Lead	0.000290	U	0.00125	0.000290	mg/L		07/23/20 09:45	07/27/20 19:16	5
Lithium	0.00196	J	0.00500	0.00190	mg/L		07/23/20 09:45	07/28/20 16:37	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		07/23/20 09:45	07/27/20 19:16	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		07/23/20 09:45	07/27/20 19:16	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		07/23/20 09:45	07/27/20 19:16	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		07/24/20 08:13	07/24/20 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3760		50.0	50.0	mg/L			07/28/20 16:14	1
Chloride	1470		200	140	mg/L			07/27/20 15:06	100
Fluoride	0.0900	J	0.100	0.0320	mg/L			07/30/20 13:33	1
Sulfate	802	B	150	42.0	mg/L			08/03/20 15:13	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.01				SU			07/21/20 11:10	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Client Sample ID: APMW-14

Lab Sample ID: 400-191180-2

Date Collected: 07/21/20 12:50

Matrix: Water

Date Received: 07/22/20 11:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		07/23/20 09:45	07/27/20 19:28	5
Arsenic	0.00215	B	0.000250	0.0000780	mg/L		07/23/20 09:45	07/28/20 16:45	1
Barium	0.243		0.000500	0.000140	mg/L		07/23/20 09:45	07/28/20 16:45	1
Beryllium	0.000170	U	0.00250	0.000170	mg/L		07/23/20 09:45	07/28/20 16:42	5
Boron	0.718		0.0500	0.0180	mg/L		07/23/20 09:45	07/29/20 18:20	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		07/23/20 09:45	07/27/20 19:28	5
Calcium	127		1.25	0.625	mg/L		07/23/20 09:45	07/29/20 18:24	25
Chromium	0.00100	U	0.00250	0.00100	mg/L		07/23/20 09:45	07/27/20 19:28	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		07/23/20 09:45	07/27/20 19:28	5
Lead	0.000290	U	0.00125	0.000290	mg/L		07/23/20 09:45	07/27/20 19:28	5
Lithium	0.00190	U	0.00500	0.00190	mg/L		07/23/20 09:45	07/28/20 16:42	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		07/23/20 09:45	07/27/20 19:28	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		07/23/20 09:45	07/27/20 19:28	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		07/23/20 09:45	07/27/20 19:28	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		07/24/20 08:13	07/24/20 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6350		125	125	mg/L			07/28/20 16:14	1
Chloride	2920		200	140	mg/L			07/27/20 15:06	100
Fluoride	0.0700	J	0.100	0.0320	mg/L			07/30/20 13:36	1
Sulfate	713	B	150	42.0	mg/L			08/03/20 15:17	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.08				SU			07/21/20 12:50	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Client Sample ID: APMW-15

Lab Sample ID: 400-191180-3

Date Collected: 07/21/20 14:30

Matrix: Water

Date Received: 07/22/20 11:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		07/23/20 09:45	07/27/20 19:31	5
Arsenic	0.00277	B	0.000250	0.0000780	mg/L		07/23/20 09:45	07/28/20 16:52	1
Barium	0.0590		0.000500	0.000140	mg/L		07/23/20 09:45	07/28/20 16:52	1
Beryllium	0.000170	U	0.00250	0.000170	mg/L		07/23/20 09:45	07/28/20 16:46	5
Boron	0.609		0.0500	0.0180	mg/L		07/23/20 09:45	07/29/20 18:29	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		07/23/20 09:45	07/27/20 19:31	5
Calcium	81.7		1.25	0.625	mg/L		07/23/20 09:45	07/29/20 18:33	25
Chromium	0.00152	J	0.00250	0.00100	mg/L		07/23/20 09:45	07/27/20 19:31	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		07/23/20 09:45	07/27/20 19:31	5
Lead	0.000290	U	0.00125	0.000290	mg/L		07/23/20 09:45	07/27/20 19:31	5
Lithium	0.00623		0.00500	0.00190	mg/L		07/23/20 09:45	07/28/20 16:46	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		07/23/20 09:45	07/27/20 19:31	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		07/23/20 09:45	07/27/20 19:31	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		07/23/20 09:45	07/27/20 19:31	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		07/24/20 08:13	07/24/20 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5400		50.0	50.0	mg/L			07/28/20 16:14	1
Chloride	2910		200	140	mg/L			08/03/20 11:04	100
Fluoride	0.170		0.100	0.0320	mg/L			07/30/20 13:38	1
Sulfate	52.9	B	10.0	2.80	mg/L			08/03/20 15:13	2

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.51				SU			07/21/20 14:30	1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
♠	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Client Sample ID: APMW-13

Lab Sample ID: 400-191180-1

Date Collected: 07/21/20 11:10

Matrix: Water

Date Received: 07/22/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498115	07/27/20 19:16	LDC	TAL PEN
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498263	07/28/20 16:41	LDC	TAL PEN
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498264	07/28/20 16:37	LDC	TAL PEN
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498438	07/29/20 18:11	LDC	TAL PEN
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		25	498438	07/29/20 18:15	LDC	TAL PEN
Total/NA	Prep	7470A			497598	07/24/20 08:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	497840	07/24/20 12:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	498236	07/28/20 16:14	CLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	498073	07/27/20 15:06	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	498528	07/30/20 13:33	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	498922	08/03/20 15:13	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	497595	07/21/20 11:10	EHS	TAL PEN

Client Sample ID: APMW-14

Lab Sample ID: 400-191180-2

Date Collected: 07/21/20 12:50

Matrix: Water

Date Received: 07/22/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498115	07/27/20 19:28	LDC	TAL PEN
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		1	498263	07/28/20 16:45	LDC	TAL PEN
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498264	07/28/20 16:42	LDC	TAL PEN
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498438	07/29/20 18:20	LDC	TAL PEN
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		25	498438	07/29/20 18:24	LDC	TAL PEN
Total/NA	Prep	7470A			497598	07/24/20 08:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	497840	07/24/20 12:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	498236	07/28/20 16:14	CLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	498073	07/27/20 15:06	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	498528	07/30/20 13:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	498922	08/03/20 15:17	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	497595	07/21/20 12:50	EHS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Client Sample ID: APMW-15

Lab Sample ID: 400-191180-3

Date Collected: 07/21/20 14:30

Matrix: Water

Date Received: 07/22/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498115	07/27/20 19:31	LDC	TAL PEN
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		1	498263	07/28/20 16:52	LDC	TAL PEN
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498264	07/28/20 16:46	LDC	TAL PEN
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498438	07/29/20 18:29	LDC	TAL PEN
Total Recoverable	Prep	3005A			497609	07/23/20 09:45	NET	TAL PEN
Total Recoverable	Analysis	6020		25	498438	07/29/20 18:33	LDC	TAL PEN
Total/NA	Prep	7470A			497598	07/24/20 08:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	497840	07/24/20 12:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	498236	07/28/20 16:14	CLB	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	498848	08/03/20 11:04	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	498528	07/30/20 13:38	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	498922	08/03/20 15:13	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	497595	07/21/20 14:30	EHS	TAL PEN

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Metals

Prep Batch: 497598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total/NA	Water	7470A	
400-191180-2	APMW-14	Total/NA	Water	7470A	
400-191180-3	APMW-15	Total/NA	Water	7470A	
MB 400-497598/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-497598/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-191196-I-8-B MS	Matrix Spike	Total/NA	Water	7470A	
400-191196-I-8-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 497609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total Recoverable	Water	3005A	
400-191180-2	APMW-14	Total Recoverable	Water	3005A	
400-191180-3	APMW-15	Total Recoverable	Water	3005A	
MB 400-497609/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-497609/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-191196-I-8-E MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-191196-I-8-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 497840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total/NA	Water	7470A	497598
400-191180-2	APMW-14	Total/NA	Water	7470A	497598
400-191180-3	APMW-15	Total/NA	Water	7470A	497598
MB 400-497598/14-A	Method Blank	Total/NA	Water	7470A	497598
LCS 400-497598/15-A	Lab Control Sample	Total/NA	Water	7470A	497598
400-191196-I-8-B MS	Matrix Spike	Total/NA	Water	7470A	497598
400-191196-I-8-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	497598

Analysis Batch: 498115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total Recoverable	Water	6020	497609
400-191180-2	APMW-14	Total Recoverable	Water	6020	497609
400-191180-3	APMW-15	Total Recoverable	Water	6020	497609
MB 400-497609/1-A ^5	Method Blank	Total Recoverable	Water	6020	497609
LCS 400-497609/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	497609
400-191196-I-8-E MS ^5	Matrix Spike	Total Recoverable	Water	6020	497609
400-191196-I-8-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	497609

Analysis Batch: 498263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total Recoverable	Water	6020	497609
400-191180-2	APMW-14	Total Recoverable	Water	6020	497609
400-191180-3	APMW-15	Total Recoverable	Water	6020	497609
MB 400-497609/1-A ^5	Method Blank	Total Recoverable	Water	6020	497609
LCS 400-497609/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	497609
400-191196-I-8-E MS ^5	Matrix Spike	Total Recoverable	Water	6020	497609
400-191196-I-8-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	497609

Analysis Batch: 498264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total Recoverable	Water	6020	497609

Eurofins TestAmerica, Pensacola

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Metals (Continued)

Analysis Batch: 498264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-2	APMW-14	Total Recoverable	Water	6020	497609
400-191180-3	APMW-15	Total Recoverable	Water	6020	497609
MB 400-497609/1-A ^5	Method Blank	Total Recoverable	Water	6020	497609
LCS 400-497609/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	497609
400-191196-I-8-E MS ^5	Matrix Spike	Total Recoverable	Water	6020	497609
400-191196-I-8-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	497609

Analysis Batch: 498438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total Recoverable	Water	6020	497609
400-191180-1	APMW-13	Total Recoverable	Water	6020	497609
400-191180-2	APMW-14	Total Recoverable	Water	6020	497609
400-191180-2	APMW-14	Total Recoverable	Water	6020	497609
400-191180-3	APMW-15	Total Recoverable	Water	6020	497609
400-191180-3	APMW-15	Total Recoverable	Water	6020	497609
MB 400-497609/1-A ^5	Method Blank	Total Recoverable	Water	6020	497609
LCS 400-497609/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	497609

General Chemistry

Analysis Batch: 498073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total/NA	Water	SM 4500 Cl- E	
400-191180-2	APMW-14	Total/NA	Water	SM 4500 Cl- E	
MB 400-498073/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-498073/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-498073/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-191209-H-10 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-191209-H-10 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 498236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total/NA	Water	SM 2540C	
400-191180-2	APMW-14	Total/NA	Water	SM 2540C	
400-191180-3	APMW-15	Total/NA	Water	SM 2540C	
MB 400-498236/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-498236/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-191155-B-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 498528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total/NA	Water	SM 4500 F C	
400-191180-2	APMW-14	Total/NA	Water	SM 4500 F C	
400-191180-3	APMW-15	Total/NA	Water	SM 4500 F C	
MB 400-498528/4	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-498528/17	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-191139-J-18 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-191139-J-18 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

General Chemistry

Analysis Batch: 498848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-3	APMW-15	Total/NA	Water	SM 4500 Cl- E	
MB 400-498848/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-498848/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-498848/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-191160-E-2 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-191160-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 498922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total/NA	Water	SM 4500 SO4 E	
400-191180-2	APMW-14	Total/NA	Water	SM 4500 SO4 E	
400-191180-3	APMW-15	Total/NA	Water	SM 4500 SO4 E	
MB 400-498922/49	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-498922/21	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-498922/47	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-191209-G-9 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-191209-G-9 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Field Service / Mobile Lab

Analysis Batch: 497595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total/NA	Water	Field Sampling	
400-191180-2	APMW-14	Total/NA	Water	Field Sampling	
400-191180-3	APMW-15	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-497609/1-A ^5
Matrix: Water
Analysis Batch: 498115

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.00150	U	0.00250	0.00150	mg/L		07/23/20 09:45	07/27/20 19:09	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		07/23/20 09:45	07/27/20 19:09	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		07/23/20 09:45	07/27/20 19:09	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		07/23/20 09:45	07/27/20 19:09	5
Lead	0.000290	U	0.00125	0.000290	mg/L		07/23/20 09:45	07/27/20 19:09	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		07/23/20 09:45	07/27/20 19:09	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		07/23/20 09:45	07/27/20 19:09	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		07/23/20 09:45	07/27/20 19:09	5

Lab Sample ID: MB 400-497609/1-A ^5
Matrix: Water
Analysis Batch: 498264

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	0.000170	U	0.00250	0.000170	mg/L		07/23/20 09:45	07/28/20 16:28	5
Calcium	0.125	U	0.250	0.125	mg/L		07/23/20 09:45	07/28/20 16:28	5
Lithium	0.00190	U	0.00500	0.00190	mg/L		07/23/20 09:45	07/28/20 16:28	5

Lab Sample ID: MB 400-497609/1-A ^5
Matrix: Water
Analysis Batch: 498263

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.001195	J	0.00125	0.000390	mg/L		07/23/20 09:45	07/28/20 16:34	5
Barium	0.000700	U	0.00250	0.000700	mg/L		07/23/20 09:45	07/28/20 16:34	5

Lab Sample ID: MB 400-497609/1-A ^5
Matrix: Water
Analysis Batch: 498438

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.0180	U	0.0500	0.0180	mg/L		07/23/20 09:45	07/29/20 18:02	5

Lab Sample ID: LCS 400-497609/2-A ^5
Matrix: Water
Analysis Batch: 498115

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.05409		mg/L		108	80 - 120
Cadmium	0.0500	0.05289		mg/L		106	80 - 120
Chromium	0.0500	0.05272		mg/L		105	80 - 120
Cobalt	0.0500	0.05259		mg/L		105	80 - 120
Lead	0.0500	0.05091		mg/L		102	80 - 120
Molybdenum	0.0500	0.05205		mg/L		104	80 - 120
Selenium	0.0500	0.05077		mg/L		102	80 - 120
Thallium	0.0100	0.01029		mg/L		103	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 400-497609/2-A ^5
Matrix: Water
Analysis Batch: 498264

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Beryllium	0.0500	0.05173		mg/L		103	80 - 120
Calcium	5.00	4.279		mg/L		86	80 - 120
Lithium	0.0500	0.05005		mg/L		100	80 - 120

Lab Sample ID: LCS 400-497609/2-A ^5
Matrix: Water
Analysis Batch: 498263

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	0.0500	0.05173		mg/L		103	80 - 120

Lab Sample ID: LCS 400-497609/2-A ^5
Matrix: Water
Analysis Batch: 498438

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	0.100	0.1081		mg/L		108	80 - 120

Lab Sample ID: 400-191196-I-8-E MS ^5
Matrix: Water
Analysis Batch: 498115

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.00150	U	0.0500	0.05475		mg/L		110	75 - 125
Arsenic	0.00164	B	0.0500	0.05532		mg/L		107	75 - 125
Beryllium	0.000170	U F1 ^	0.0500	0.05056		mg/L		101	75 - 125
Boron	0.0568	F1 ^	0.100	0.1564		mg/L		100	75 - 125
Cadmium	0.000280	U	0.0500	0.05263		mg/L		105	75 - 125
Chromium	0.00100	U	0.0500	0.05186		mg/L		104	75 - 125
Cobalt	0.000560	U	0.0500	0.05329		mg/L		107	75 - 125
Lead	0.000290	U	0.0500	0.05048		mg/L		101	75 - 125
Molybdenum	0.00450	U	0.0500	0.05048		mg/L		101	75 - 125
Selenium	0.000820	U F2 F1	0.0500	0.05071		mg/L		101	75 - 125
Thallium	0.000120	U	0.0100	0.01015		mg/L		102	75 - 125

Lab Sample ID: 400-191196-I-8-E MS ^5
Matrix: Water
Analysis Batch: 498264

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.000390	U	0.0500	0.05167		mg/L		103	75 - 125
Beryllium	0.000170	U	0.0500	0.05095		mg/L		102	75 - 125
Calcium	0.723		5.00	4.937		mg/L		84	75 - 125
Lithium	0.00387	J	0.0500	0.05389		mg/L		100	75 - 125

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-191196-I-8-E MS ^5
Matrix: Water
Analysis Batch: 498263

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.00150	U	0.0500	0.05321		mg/L		106	75 - 125
Arsenic	0.000390	U	0.0500	0.05313		mg/L		106	75 - 125
Barium	0.00997		0.0500	0.06345		mg/L		107	75 - 125
Cadmium	0.000280	U	0.0500	0.05147		mg/L		103	75 - 125
Chromium	0.00100	U	0.0500	0.05194		mg/L		104	75 - 125
Cobalt	0.000560	U	0.0500	0.05079		mg/L		102	75 - 125
Lead	0.000290	U	0.0500	0.05028		mg/L		101	75 - 125
Molybdenum	0.00450	U	0.0500	0.05116		mg/L		102	75 - 125
Selenium	0.000820	U	0.0500	0.05180		mg/L		104	75 - 125
Thallium	0.000120	U	0.0100	0.01028		mg/L		103	75 - 125

Lab Sample ID: 400-191196-I-8-F MSD ^5
Matrix: Water
Analysis Batch: 498115

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.00150	U	0.0500	0.05216		mg/L		104	75 - 125	5	20
Arsenic	0.00164	B	0.0500	0.05034		mg/L		97	75 - 125	9	20
Cadmium	0.000280	U	0.0500	0.04957		mg/L		99	75 - 125	6	20
Chromium	0.00100	U	0.0500	0.04919		mg/L		98	75 - 125	5	20
Cobalt	0.000560	U	0.0500	0.05057		mg/L		101	75 - 125	5	20
Lead	0.000290	U	0.0500	0.04725		mg/L		94	75 - 125	7	20
Molybdenum	0.00450	U	0.0500	0.04791		mg/L		96	75 - 125	5	20
Selenium	0.000820	U F2 F1	0.0500	0.03378	F2 F1	mg/L		68	75 - 125	40	20
Thallium	0.000120	U	0.0100	0.009520		mg/L		95	75 - 125	6	20

Lab Sample ID: 400-191196-I-8-F MSD ^5
Matrix: Water
Analysis Batch: 498264

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	0.000390	U	0.0500	0.05058		mg/L		101	75 - 125	2	20
Beryllium	0.000170	U	0.0500	0.05038		mg/L		101	75 - 125	1	20
Calcium	0.723		5.00	4.886		mg/L		83	75 - 125	1	20
Lithium	0.00387	J	0.0500	0.05328		mg/L		99	75 - 125	1	20

Lab Sample ID: 400-191196-I-8-F MSD ^5
Matrix: Water
Analysis Batch: 498263

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.00150	U	0.0500	0.05474		mg/L		109	75 - 125	3	20
Arsenic	0.000390	U	0.0500	0.05340		mg/L		107	75 - 125	0	20
Barium	0.00997		0.0500	0.06197		mg/L		104	75 - 125	2	20
Cadmium	0.000280	U	0.0500	0.05441		mg/L		109	75 - 125	6	20
Chromium	0.00100	U	0.0500	0.05354		mg/L		107	75 - 125	3	20
Cobalt	0.000560	U	0.0500	0.05379		mg/L		108	75 - 125	6	20
Lead	0.000290	U	0.0500	0.05216		mg/L		104	75 - 125	4	20
Molybdenum	0.00450	U	0.0500	0.05313		mg/L		106	75 - 125	4	20

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-191196-I-8-F MSD ^5
Matrix: Water
Analysis Batch: 498263

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 497609

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	0.000820	U	0.0500	0.05195		mg/L		104	75 - 125	0	20
Thallium	0.000120	U	0.0100	0.01064		mg/L		106	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-497598/14-A
Matrix: Water
Analysis Batch: 497840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 497598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		07/24/20 08:13	07/24/20 11:36	1

Lab Sample ID: LCS 400-497598/15-A
Matrix: Water
Analysis Batch: 497840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 497598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.0009399		mg/L		93	80 - 120

Lab Sample ID: 400-191196-I-8-B MS
Matrix: Water
Analysis Batch: 497840

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 497598

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0000700	U	0.00201	0.001928		mg/L		96	80 - 120

Lab Sample ID: 400-191196-I-8-C MSD
Matrix: Water
Analysis Batch: 497840

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 497598

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0000700	U	0.00201	0.001849		mg/L		92	80 - 120	4	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-498236/1
Matrix: Water
Analysis Batch: 498236

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	5.00	U	5.00	5.00	mg/L			07/28/20 16:14	1

Lab Sample ID: LCS 400-498236/2
Matrix: Water
Analysis Batch: 498236

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	342.0		mg/L		117	78 - 122

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 400-191155-B-3 DU
Matrix: Water
Analysis Batch: 498236

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	274		274.0		mg/L		0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-498073/6
Matrix: Water
Analysis Batch: 498073

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.40	U	2.00	1.40	mg/L			07/27/20 14:28	1

Lab Sample ID: LCS 400-498073/7
Matrix: Water
Analysis Batch: 498073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	29.42		mg/L		98	90 - 110

Lab Sample ID: MRL 400-498073/3
Matrix: Water
Analysis Batch: 498073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	2.275		mg/L		114	50 - 150

Lab Sample ID: 400-191209-H-10 MS
Matrix: Water
Analysis Batch: 498073

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	43.9		10.0	48.87	4	mg/L		49	73 - 120

Lab Sample ID: 400-191209-H-10 MSD
Matrix: Water
Analysis Batch: 498073

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	43.9		10.0	48.57	4	mg/L		46	73 - 120	1	8

Lab Sample ID: MB 400-498848/16
Matrix: Water
Analysis Batch: 498848

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.40	U	2.00	1.40	mg/L			08/03/20 10:16	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 400-498848/17
Matrix: Water
Analysis Batch: 498848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	29.75		mg/L		99	90 - 110

Lab Sample ID: MRL 400-498848/13
Matrix: Water
Analysis Batch: 498848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.781	J	mg/L		89	50 - 150

Lab Sample ID: 400-191160-E-2 MS
Matrix: Water
Analysis Batch: 498848

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.38		10.0	14.98		mg/L		116	73 - 120

Lab Sample ID: 400-191160-E-2 MSD
Matrix: Water
Analysis Batch: 498848

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.38		10.0	15.08		mg/L		117	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-498528/4
Matrix: Water
Analysis Batch: 498528

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.0320	U	0.100	0.0320	mg/L			07/30/20 13:14	1

Lab Sample ID: LCS 400-498528/17
Matrix: Water
Analysis Batch: 498528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.740		mg/L		95	90 - 110

Lab Sample ID: 400-191139-J-18 MS
Matrix: Water
Analysis Batch: 498528

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.0400	J	1.00	0.9200		mg/L		88	75 - 125

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-191139-J-18 MSD
Matrix: Water
Analysis Batch: 498528

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.0400	J	1.00	0.9000		mg/L		86	75 - 125	2	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-498922/49
Matrix: Water
Analysis Batch: 498922

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2.012	J	5.00	1.40	mg/L			08/03/20 15:37	1

Lab Sample ID: LCS 400-498922/21
Matrix: Water
Analysis Batch: 498922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.74		mg/L		105	90 - 110

Lab Sample ID: MRL 400-498922/47
Matrix: Water
Analysis Batch: 498922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	6.015		mg/L		120	50 - 150

Lab Sample ID: 400-191209-G-9 MS
Matrix: Water
Analysis Batch: 498922

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	48.1	B	10.0	56.88	4	mg/L		88	77 - 128

Lab Sample ID: 400-191209-G-9 MSD
Matrix: Water
Analysis Batch: 498922

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	48.1	B	10.0	57.17	4	mg/L		91	77 - 128	1	5

Chain of Custody Record



Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283(Tel) Email: laparker@southernco.com Project Name: Plant Watson Site:		Lab PM: Whitmire, Cheryenne R E-Mail: cheryenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-95282-34526.2 Page: Page 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 W/O #: Project #: 40001674 SSOW#:		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 4500_F_C - Fluoride N D N 6020_Sb,As,Ba,Bi,Be,Ca,Cd,Cr,Cu,Pb,LI,Mo,Se,Tl N D N 2540C - TDS N D N SM4500_SO4_E - Sulfate, Total N D N 9315_Ra226 - Radium 226 N D D 9320_Ra228 - Radium 228 N D D Ra226Ra228_GFPc - Radium 226 + Radium 228 N D D SM4500_Cl_E - Chloride, Total N D N Fieldsampling - Field Sampling pH N D N 7470A - Mercury N D N Total Number of containers:	
Sample Identification Sample ID: RPNW-13 Sample ID: RPNW-14 Sample ID: RPNW-15		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 - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - other (specify)	
Sample Date: 07-22-20 Sample Time: 1110 Sample Type (C=Comp, G=grab): Matrix (W=Water, S=Solid, O=Seawater, BT=Tissue, A=Air): Water Water Water Water Water Water Water Water Water Water		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:	
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)		Date: 7-22-20 0900 Date/Time: 7-22-20 0900 Date/Time: 7-22-20 1100 Date/Time: 7-22-20 1100 Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Date/Time: 7-22-20 0900 Date/Time: 7-22-20 1100 Date/Time: 7-22-20 1100 Date/Time: 7-22-20 1100 Received by: [Signature] Received by: [Signature] Received by: [Signature]	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-191180-1

Login Number: 191180

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Hinrichsen, Megan E

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 IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: Plant Watson

Job ID: 400-191180-1

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20



ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-191180-2
Client Project/Site: Plant Watson

For:

Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
8/21/2020 11:08:24 AM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@Eurofinset.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.

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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-2

Job ID: 400-191180-2

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-191180-2

RAD

Method 9315: Radium-226 prep batch 160-477711. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-13 (400-191180-1), APMW-14 (400-191180-2), APMW-15 (400-191180-3), (LCS 160-477711/1-A), (LCSD 160-477711/2-A) and (MB 160-477711/16-A)

Method 9320: Radium-228 prep batch 160-477714. The following sample did not meet the requested limit (RL) due to the reduced volume and low carrier recovery due to the presence of matrix interferences (see prep NCM 160-200271): APMW-15 (400-191180-3). The data have been reported with this narrative.

Method 9320: Radium-228 prep batch 160-477714. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-13 (400-191180-1), APMW-14 (400-191180-2), APMW-15 (400-191180-3), (LCS 160-477714/1-A), (LCSD 160-477714/2-A) and (MB 160-477714/16-A)

Method PrecSep_0: Radium 228 Prep Batch 160-477714. Samples 400-191180-1 and 3 were reduced due to yellow discoloration: APMW-13 (400-191180-1) and APMW-15 (400-191180-3) A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-477714. Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-14 (400-191180-2). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-477711. Samples 400-191180-1 and 3 were reduced due to yellow discoloration: APMW-13 (400-191180-1) and APMW-15 (400-191180-3) A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-477711. Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-14 (400-191180-2). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-2

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
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-191180-1	APMW-13	Water	07/21/20 11:10	07/22/20 11:00	
400-191180-2	APMW-14	Water	07/21/20 12:50	07/22/20 11:00	
400-191180-3	APMW-15	Water	07/21/20 14:30	07/22/20 11:00	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-2

Client Sample ID: APMW-13

Lab Sample ID: 400-191180-1

Date Collected: 07/21/20 11:10

Matrix: Water

Date Received: 07/22/20 11:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.13		0.255	0.274	1.00	0.152	pCi/L	07/29/20 15:42	08/20/20 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.9		40 - 110					07/29/20 15:42	08/20/20 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.60		0.574	0.593	1.00	0.791	pCi/L	07/29/20 16:00	08/11/20 10:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.9		40 - 110					07/29/20 16:00	08/11/20 10:50	1
Y Carrier	91.2		40 - 110					07/29/20 16:00	08/11/20 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	2.72		0.628	0.653	5.00	0.791	pCi/L		08/21/20 09:39	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-2

Client Sample ID: APMW-14

Lab Sample ID: 400-191180-2

Date Collected: 07/21/20 12:50

Matrix: Water

Date Received: 07/22/20 11:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.82		0.238	0.289	1.00	0.0833	pCi/L	07/29/20 15:42	08/20/20 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					07/29/20 15:42	08/20/20 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.05		0.477	0.553	1.00	0.508	pCi/L	07/29/20 16:00	08/11/20 10:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					07/29/20 16:00	08/11/20 10:50	1
Y Carrier	88.2		40 - 110					07/29/20 16:00	08/11/20 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	4.86		0.533	0.624	5.00	0.508	pCi/L		08/21/20 09:39	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-2

Client Sample ID: APMW-15

Lab Sample ID: 400-191180-3

Date Collected: 07/21/20 14:30

Matrix: Water

Date Received: 07/22/20 11:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.44		0.324	0.349	1.00	0.227	pCi/L	07/29/20 15:42	08/20/20 07:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.1		40 - 110					07/29/20 15:42	08/20/20 07:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.84	G	0.762	0.780	1.00	1.10	pCi/L	07/29/20 16:00	08/11/20 10:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.1		40 - 110					07/29/20 16:00	08/11/20 10:50	1
Y Carrier	89.3		40 - 110					07/29/20 16:00	08/11/20 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	3.28		0.828	0.855	5.00	1.10	pCi/L		08/21/20 09:39	1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-2

Client Sample ID: APMW-13

Lab Sample ID: 400-191180-1

Date Collected: 07/21/20 11:10

Matrix: Water

Date Received: 07/22/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			477711	07/29/20 15:42	MNH	TAL SL
Total/NA	Analysis	9315		1	479978	08/20/20 07:28	SCB	TAL SL
Total/NA	Prep	PrecSep_0			477714	07/29/20 16:00	MNH	TAL SL
Total/NA	Analysis	9320		1	479153	08/11/20 10:50	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	480249	08/21/20 09:39	SMP	TAL SL

Client Sample ID: APMW-14

Lab Sample ID: 400-191180-2

Date Collected: 07/21/20 12:50

Matrix: Water

Date Received: 07/22/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			477711	07/29/20 15:42	MNH	TAL SL
Total/NA	Analysis	9315		1	479978	08/20/20 07:28	SCB	TAL SL
Total/NA	Prep	PrecSep_0			477714	07/29/20 16:00	MNH	TAL SL
Total/NA	Analysis	9320		1	479153	08/11/20 10:50	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	480249	08/21/20 09:39	SMP	TAL SL

Client Sample ID: APMW-15

Lab Sample ID: 400-191180-3

Date Collected: 07/21/20 14:30

Matrix: Water

Date Received: 07/22/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			477711	07/29/20 15:42	MNH	TAL SL
Total/NA	Analysis	9315		1	479978	08/20/20 07:29	SCB	TAL SL
Total/NA	Prep	PrecSep_0			477714	07/29/20 16:00	MNH	TAL SL
Total/NA	Analysis	9320		1	479153	08/11/20 10:50	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	480249	08/21/20 09:39	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-2

Rad

Prep Batch: 477711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total/NA	Water	PrecSep-21	
400-191180-2	APMW-14	Total/NA	Water	PrecSep-21	
400-191180-3	APMW-15	Total/NA	Water	PrecSep-21	
MB 160-477711/16-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-477711/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-477711/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 477714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191180-1	APMW-13	Total/NA	Water	PrecSep_0	
400-191180-2	APMW-14	Total/NA	Water	PrecSep_0	
400-191180-3	APMW-15	Total/NA	Water	PrecSep_0	
MB 160-477714/16-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-477714/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-477714/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-477711/16-A
Matrix: Water
Analysis Batch: 479978

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477711

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03956	U	0.0628	0.0629	1.00	0.110	pCi/L	07/29/20 15:42	08/20/20 09:25	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	90.0		40 - 110			07/29/20 15:42	08/20/20 09:25	1		

Lab Sample ID: LCS 160-477711/1-A
Matrix: Water
Analysis Batch: 479978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477711

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	13.90		1.46	1.00	0.128	pCi/L	92	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	84.9		40 - 110						

Lab Sample ID: LCSD 160-477711/2-A
Matrix: Water
Analysis Batch: 479978

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 477711

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	15.1	13.37		1.40	1.00	0.165	pCi/L	88	75 - 125	0.19	1
Carrier	LCSD	LCSD	Limits			Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier									
Ba Carrier	93.1		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-477714/16-A
Matrix: Water
Analysis Batch: 479200

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 477714

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.02973	U	0.331	0.331	1.00	0.593	pCi/L	07/29/20 16:00	08/11/20 10:59	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	90.0		40 - 110			07/29/20 16:00	08/11/20 10:59	1		
Y Carrier	89.3		40 - 110			07/29/20 16:00	08/11/20 10:59	1		

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-477714/1-A
Matrix: Water
Analysis Batch: 479153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 477714

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	10.5	10.55		1.33	1.00	0.687	pCi/L	100	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	84.9		40 - 110
Y Carrier	89.0		40 - 110

Lab Sample ID: LCSD 160-477714/2-A
Matrix: Water
Analysis Batch: 479153

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 477714

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	10.5	9.178		1.15	1.00	0.539	pCi/L	87	75 - 125	0.56	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	93.1		40 - 110
Y Carrier	92.0		40 - 110

Chain of Custody Record



Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283(Tel) Email: laparker@southernco.com Project Name: Plant Watson Site:		Lab PM: Whitmire, Cheryenne R E-Mail: cheryenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-95282-34526.2 Page: Page 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 W/O #: Project #: 40001674 SSOW#:		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/> 4500_F_C - Fluoride <input checked="" type="checkbox"/> <input type="checkbox"/> 6020_Sb,As,Ba,Bi,Be,Ca,Cd,Cr,Cu,Pb,Li,Mo,Se,Tl <input checked="" type="checkbox"/> <input type="checkbox"/> 2540C - TDS <input checked="" type="checkbox"/> <input type="checkbox"/> SM4500_SO4_E - Sulfate, Total <input checked="" type="checkbox"/> <input type="checkbox"/> 9315_Ra226 - Radium 226 <input checked="" type="checkbox"/> <input type="checkbox"/> 9320_Ra228 - Radium 228 <input checked="" type="checkbox"/> <input type="checkbox"/> Ra226Ra228_GFPc - Radium 226 + Radium 228 <input checked="" type="checkbox"/> <input type="checkbox"/> SM4500_Cl_E - Chloride, Total <input checked="" type="checkbox"/> <input type="checkbox"/> Fieldsampling - Field Sampling pH <input checked="" type="checkbox"/> <input type="checkbox"/> 7470A - Mercury <input checked="" type="checkbox"/> <input type="checkbox"/> Total Number of Containers:	
Sample Identification Sample ID: RPNW-13 Sample Description: A 8/26 W-14 A 8/26 W-15		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 - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - other (specify)	
Sample Date: 07-22-20 Sample Time: 1110 Sample Type (C=Comp, G=grab): G Matrix (W=Water, S=Soil, O=Seawater, BT=Tissue, A=Air): Water		Special Instructions/Note: TH 4774 YX-7-9	
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, III, IV, Other (specify)			
Empty Kit Relinquished by:			
Relinquished by: [Signature] Date/Time: 7-22-20 0900 Company: [Signature]		Method of Shipment:	
Relinquished by: [Signature] Date/Time: 8-22-20 1100 Company: [Signature]		Received by: [Signature] Date/Time: 8/22/20 0900 Company: [Signature]	
Relinquished by: [Signature] Date/Time: 8-22-20 1100 Company: [Signature]		Received by: [Signature] Date/Time: 8/22/20 1100 Company: [Signature]	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 0.0°C, R 8	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-191180-2

Login Number: 191180

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Hinrichsen, Megan E

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 IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-191180-2

Login Number: 191180

List Number: 2

Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 07/23/20 06:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-2

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191180-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)
400-191180-1	APMW-13	61.9
400-191180-2	APMW-14	85.2
400-191180-3	APMW-15	51.1
LCS 160-477711/1-A	Lab Control Sample	84.9
LCSD 160-477711/2-A	Lab Control Sample Dup	93.1
MB 160-477711/16-A	Method Blank	90.0

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
400-191180-1	APMW-13	61.9	91.2
400-191180-2	APMW-14	85.2	88.2
400-191180-3	APMW-15	51.1	89.3
LCS 160-477714/1-A	Lab Control Sample	84.9	89.0
LCSD 160-477714/2-A	Lab Control Sample Dup	93.1	92.0
MB 160-477714/16-A	Method Blank	90.0	89.3

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-191553-1
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
8/21/2020 11:49:53 AM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@Eurofinset.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.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Job ID: 400-191553-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-191553-1

Metals

Method 6020: The method blank for preparation batch 400-498629 and analytical batch 400-498829 contained Beryllium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The continuing calibration verification (CCV) associated with batch 400-498829 recovered above the upper control limit for Boron. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (MB 400-498629/1-A ^5).

Method 6020: The continuing calibration verification (CCV) associated with batch 400-498962 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 associated sample is impacted: (CCV 400-498962/42).

Method 6020: The ICV for batch 400-498962 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RSD for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly. (ICV 400-498962/13)

Method 6020: CRI recovery outside the SOP's criteria for Calcium (156%). The samples are 10x the CRI; therefore data is report. APMW-16 (400-191553-1) and DUP-01 (400-191553-5)

Method 6020: The ICV for batch 400-499116 passed recovery/accuracy criteria which serves the ICV purpose of verifying the calibration standards. The replicate RSD for the elements were outside of the criteria for standards but within the criteria for field samples. Data has therefore been reported and narrated accordingly. (ICV 400-499116/13)

General Chemistry

Method SM 2540C: The sample duplicate (DUP) precision for analytical batch 400-499080 was outside control limits. Sample non-homogeneity is suspected.

Method SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: APMW-16 (400-191553-1) and DUP-01 (400-191553-5). Elevated reporting limits (RLs) are provided.

Method SM 4500 SO4 E: The method blank for analytical batch 400-499801 contained Sulfate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: APMW-16 (400-191553-1) and DUP-01 (400-191553-5). Elevated reporting limits (RLs) are provided.

Method SM 4500 SO4 E: The method blank for analytical batch 400-499824 contained Sulfate, Dissolved above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN
Field Sampling	Field Sampling	EPA	TAL PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-191553-1	APMW-16	Water	07/30/20 10:12	07/31/20 08:20	
400-191553-2	APMW-5D	Water	07/30/20 14:40	07/31/20 08:20	
400-191553-3	FB-02	Water	07/30/20 15:00	07/31/20 08:20	
400-191553-4	EB-02	Water	07/30/20 15:10	07/31/20 08:20	
400-191553-5	DUP-01	Water	07/30/20 09:12	07/31/20 08:20	
400-191553-6	APMW-5D	Water	07/30/20 14:40	07/31/20 08:20	

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Client Sample ID: APMW-16

Lab Sample ID: 400-191553-1

Date Collected: 07/30/20 10:12

Matrix: Water

Date Received: 07/31/20 08:20

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		07/31/20 10:04	07/31/20 19:51	5
Arsenic	0.00496		0.00125	0.000390	mg/L		07/31/20 10:04	08/03/20 17:38	5
Barium	0.0659		0.00250	0.000700	mg/L		07/31/20 10:04	08/03/20 17:38	5
Beryllium	0.000170	U	0.00250	0.000170	mg/L		07/31/20 10:04	08/03/20 17:38	5
Boron	0.620		0.0500	0.0180	mg/L		07/31/20 10:04	08/04/20 16:27	5
Cadmium	0.000355	J	0.00250	0.000280	mg/L		07/31/20 10:04	07/31/20 19:51	5
Calcium	99.2	^	0.250	0.125	mg/L		07/31/20 10:04	08/03/20 17:38	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		07/31/20 10:04	07/31/20 19:51	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		07/31/20 10:04	07/31/20 19:51	5
Lead	0.000290	U	0.00125	0.000290	mg/L		07/31/20 10:04	07/31/20 19:51	5
Lithium	0.00523	B	0.00500	0.00190	mg/L		07/31/20 10:04	08/04/20 16:27	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		07/31/20 10:04	07/31/20 19:51	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		07/31/20 10:04	08/03/20 17:38	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		07/31/20 10:04	07/31/20 19:51	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		08/01/20 12:14	08/05/20 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5020		50.0	50.0	mg/L			08/04/20 15:13	1
Chloride	2830		200	140	mg/L			08/10/20 16:46	100
Fluoride	0.190		0.100	0.0320	mg/L			08/11/20 16:12	1
Sulfate	33.4	B	10.0	2.80	mg/L			08/10/20 14:15	2

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.48				SU			07/30/20 10:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Client Sample ID: APMW-5D

Lab Sample ID: 400-191553-2

Date Collected: 07/30/20 14:40

Matrix: Water

Date Received: 07/31/20 08:20

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		07/31/20 10:04	07/31/20 19:55	5
Arsenic	0.00958		0.00125	0.000390	mg/L		07/31/20 10:04	08/03/20 17:42	5
Barium	0.0659		0.00250	0.000700	mg/L		07/31/20 10:04	08/03/20 17:42	5
Beryllium	0.000170	U	0.00250	0.000170	mg/L		07/31/20 10:04	08/03/20 17:42	5
Boron	0.0792		0.0500	0.0180	mg/L		07/31/20 10:04	08/03/20 17:42	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		07/31/20 10:04	07/31/20 19:55	5
Calcium	1.34		0.250	0.125	mg/L		07/31/20 10:04	08/04/20 16:34	5
Chromium	0.00378		0.00250	0.00100	mg/L		07/31/20 10:04	07/31/20 19:55	5
Cobalt	0.00110	J	0.00250	0.000560	mg/L		07/31/20 10:04	07/31/20 19:55	5
Lead	0.00203		0.00125	0.000290	mg/L		07/31/20 10:04	07/31/20 19:55	5
Lithium	0.00791		0.00500	0.00190	mg/L		07/31/20 10:04	08/03/20 17:42	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		07/31/20 10:04	07/31/20 19:55	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		07/31/20 10:04	08/03/20 17:42	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		07/31/20 10:04	07/31/20 19:55	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		08/01/20 12:14	08/05/20 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		5.00	5.00	mg/L			08/04/20 15:13	1
Chloride	10.2		2.00	1.40	mg/L			08/10/20 16:23	1
Fluoride	0.170		0.100	0.0320	mg/L			08/11/20 16:14	1
Sulfate	12.7	B	5.00	1.40	mg/L			08/10/20 14:08	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.67				SU			07/30/20 14:40	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Client Sample ID: FB-02
Date Collected: 07/30/20 15:00
Date Received: 07/31/20 08:20

Lab Sample ID: 400-191553-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		07/31/20 10:04	07/31/20 20:06	5
Arsenic	0.000390	U	0.00125	0.000390	mg/L		07/31/20 10:04	08/03/20 17:47	5
Barium	0.000700	U	0.00250	0.000700	mg/L		07/31/20 10:04	08/03/20 17:47	5
Beryllium	0.000170	U	0.00250	0.000170	mg/L		07/31/20 10:04	08/03/20 17:47	5
Boron	0.0189	J	0.0500	0.0180	mg/L		07/31/20 10:04	08/03/20 17:47	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		07/31/20 10:04	07/31/20 20:06	5
Calcium	0.125	U	0.250	0.125	mg/L		07/31/20 10:04	08/04/20 16:38	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		07/31/20 10:04	07/31/20 20:06	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		07/31/20 10:04	07/31/20 20:06	5
Lead	0.000290	U	0.00125	0.000290	mg/L		07/31/20 10:04	07/31/20 20:06	5
Lithium	0.00190	U	0.00500	0.00190	mg/L		07/31/20 10:04	08/03/20 17:47	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		07/31/20 10:04	07/31/20 20:06	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		07/31/20 10:04	08/03/20 17:47	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		07/31/20 10:04	07/31/20 20:06	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		08/01/20 12:14	08/05/20 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			08/04/20 15:13	1
Chloride	1.40	U	2.00	1.40	mg/L			08/10/20 16:23	1
Fluoride	0.0320	U	0.100	0.0320	mg/L			08/11/20 16:18	1
Sulfate	1.74	J B	5.00	1.40	mg/L			08/10/20 14:08	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Client Sample ID: EB-02
Date Collected: 07/30/20 15:10
Date Received: 07/31/20 08:20

Lab Sample ID: 400-191553-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		07/31/20 10:04	07/31/20 20:10	5
Arsenic	0.000570	J	0.00125	0.000390	mg/L		07/31/20 10:04	08/03/20 17:51	5
Barium	0.000700	U	0.00250	0.000700	mg/L		07/31/20 10:04	08/03/20 17:51	5
Beryllium	0.000170	U	0.00250	0.000170	mg/L		07/31/20 10:04	08/03/20 17:51	5
Boron	0.0180	U	0.0500	0.0180	mg/L		07/31/20 10:04	08/03/20 17:51	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		07/31/20 10:04	07/31/20 20:10	5
Calcium	0.125	U	0.250	0.125	mg/L		07/31/20 10:04	08/04/20 16:42	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		07/31/20 10:04	07/31/20 20:10	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		07/31/20 10:04	07/31/20 20:10	5
Lead	0.000290	U	0.00125	0.000290	mg/L		07/31/20 10:04	07/31/20 20:10	5
Lithium	0.00190	U	0.00500	0.00190	mg/L		07/31/20 10:04	08/03/20 17:51	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		07/31/20 10:04	07/31/20 20:10	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		07/31/20 10:04	08/03/20 17:51	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		07/31/20 10:04	07/31/20 20:10	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		08/01/20 12:14	08/05/20 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			08/04/20 15:13	1
Chloride	1.40	U	2.00	1.40	mg/L			08/10/20 16:23	1
Fluoride	0.0320	U	0.100	0.0320	mg/L			08/11/20 16:21	1
Sulfate	1.75	J B	5.00	1.40	mg/L			08/10/20 14:08	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Client Sample ID: DUP-01

Lab Sample ID: 400-191553-5

Date Collected: 07/30/20 09:12

Matrix: Water

Date Received: 07/31/20 08:20

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00150	U	0.00250	0.00150	mg/L		07/31/20 10:04	07/31/20 20:13	5
Arsenic	0.00493		0.00125	0.000390	mg/L		07/31/20 10:04	08/03/20 17:56	5
Barium	0.0662		0.00250	0.000700	mg/L		07/31/20 10:04	08/03/20 17:56	5
Beryllium	0.000170	U	0.00250	0.000170	mg/L		07/31/20 10:04	08/03/20 17:56	5
Boron	0.608		0.0500	0.0180	mg/L		07/31/20 10:04	08/03/20 17:56	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		07/31/20 10:04	07/31/20 20:13	5
Calcium	98.1	^	0.250	0.125	mg/L		07/31/20 10:04	08/03/20 17:56	5
Chromium	0.00107	J	0.00250	0.00100	mg/L		07/31/20 10:04	07/31/20 20:13	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		07/31/20 10:04	07/31/20 20:13	5
Lead	0.000290	U	0.00125	0.000290	mg/L		07/31/20 10:04	07/31/20 20:13	5
Lithium	0.00660		0.00500	0.00190	mg/L		07/31/20 10:04	08/03/20 17:56	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		07/31/20 10:04	07/31/20 20:13	5
Selenium	0.000820	U ^	0.00125	0.000820	mg/L		07/31/20 10:04	08/03/20 17:56	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		07/31/20 10:04	07/31/20 20:13	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		08/01/20 12:14	08/05/20 12:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5480		50.0	50.0	mg/L			08/04/20 15:13	1
Chloride	2800		200	140	mg/L			08/10/20 16:53	100
Fluoride	0.180		0.100	0.0320	mg/L			08/11/20 16:23	1
Sulfate	34.7	B	10.0	2.80	mg/L			08/10/20 15:19	2

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.48				SU			07/30/20 09:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Client Sample ID: APMW-5D

Lab Sample ID: 400-191553-6

Date Collected: 07/30/20 14:40

Matrix: Water

Date Received: 07/31/20 08:20

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		07/31/20 10:04	07/31/20 20:17	5
Arsenic, Dissolved	0.00868		0.00125	0.000390	mg/L		07/31/20 10:04	08/03/20 18:09	5
Barium, Dissolved	0.0489		0.00250	0.000700	mg/L		07/31/20 10:04	08/03/20 18:09	5
Beryllium, Dissolved	0.000170	U	0.00250	0.000170	mg/L		07/31/20 10:04	08/03/20 18:09	5
Boron, Dissolved	0.0695		0.0500	0.0180	mg/L		07/31/20 10:04	08/03/20 18:09	5
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		07/31/20 10:04	07/31/20 20:17	5
Calcium, Dissolved	1.29		0.250	0.125	mg/L		07/31/20 10:04	08/04/20 16:49	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		07/31/20 10:04	07/31/20 20:17	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		07/31/20 10:04	07/31/20 20:17	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		07/31/20 10:04	07/31/20 20:17	5
Lithium, Dissolved	0.00732		0.00500	0.00190	mg/L		07/31/20 10:04	08/03/20 18:09	5
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		07/31/20 10:04	07/31/20 20:17	5
Selenium, Dissolved	0.000820	U	0.00125	0.000820	mg/L		07/31/20 10:04	08/03/20 18:09	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		07/31/20 10:04	07/31/20 20:17	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		08/01/20 12:14	08/05/20 12:57	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	136		5.00	5.00	mg/L			08/04/20 15:13	1
Chloride, Dissolved	9.12		2.00	1.40	mg/L			08/10/20 16:30	1
Fluoride, Dissolved	0.170		0.100	0.0320	mg/L			08/11/20 16:25	1
Sulfate, Dissolved	8.33	B	5.00	1.40	mg/L			08/10/20 14:50	1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Client Sample ID: APMW-16

Lab Sample ID: 400-191553-1

Date Collected: 07/30/20 10:12

Matrix: Water

Date Received: 07/31/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498829	07/31/20 19:51	LDC	TAL PEN
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	499116	08/04/20 16:27	LDC	TAL PEN
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498962	08/03/20 17:38	LDC	TAL PEN
Total/NA	Prep	7470A			498680	08/01/20 12:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	499237	08/05/20 12:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	499080	08/04/20 15:13	CLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	499839	08/10/20 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	499953	08/11/20 16:12	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	499801	08/10/20 14:15	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	501073	07/30/20 10:12	EHS	TAL PEN

Client Sample ID: APMW-5D

Lab Sample ID: 400-191553-2

Date Collected: 07/30/20 14:40

Matrix: Water

Date Received: 07/31/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498829	07/31/20 19:55	LDC	TAL PEN
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	499116	08/04/20 16:34	LDC	TAL PEN
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498962	08/03/20 17:42	LDC	TAL PEN
Total/NA	Prep	7470A			498680	08/01/20 12:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	499237	08/05/20 12:50	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	499080	08/04/20 15:13	CLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	499839	08/10/20 16:23	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	499953	08/11/20 16:14	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	499801	08/10/20 14:08	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	501073	07/30/20 14:40	EHS	TAL PEN

Client Sample ID: FB-02

Lab Sample ID: 400-191553-3

Date Collected: 07/30/20 15:00

Matrix: Water

Date Received: 07/31/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498829	07/31/20 20:06	LDC	TAL PEN
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	499116	08/04/20 16:38	LDC	TAL PEN
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498962	08/03/20 17:47	LDC	TAL PEN

Eurofins TestAmerica, Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Client Sample ID: FB-02

Date Collected: 07/30/20 15:00

Date Received: 07/31/20 08:20

Lab Sample ID: 400-191553-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			498680	08/01/20 12:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	499237	08/05/20 12:52	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	499080	08/04/20 15:13	CLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	499839	08/10/20 16:23	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	499953	08/11/20 16:18	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	499801	08/10/20 14:08	RRC	TAL PEN

Client Sample ID: EB-02

Date Collected: 07/30/20 15:10

Date Received: 07/31/20 08:20

Lab Sample ID: 400-191553-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498829	07/31/20 20:10	LDC	TAL PEN
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	499116	08/04/20 16:42	LDC	TAL PEN
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498962	08/03/20 17:51	LDC	TAL PEN
Total/NA	Prep	7470A			498680	08/01/20 12:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	499237	08/05/20 12:53	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	499080	08/04/20 15:13	CLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	499839	08/10/20 16:23	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	499953	08/11/20 16:21	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	499801	08/10/20 14:08	RRC	TAL PEN

Client Sample ID: DUP-01

Date Collected: 07/30/20 09:12

Date Received: 07/31/20 08:20

Lab Sample ID: 400-191553-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498829	07/31/20 20:13	LDC	TAL PEN
Total Recoverable	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Total Recoverable	Analysis	6020		5	498962	08/03/20 17:56	LDC	TAL PEN
Total/NA	Prep	7470A			498680	08/01/20 12:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	499237	08/05/20 12:55	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	499080	08/04/20 15:13	CLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	499839	08/10/20 16:53	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	499953	08/11/20 16:23	MAF	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	499824	08/10/20 15:19	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	501073	07/30/20 09:12	EHS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Client Sample ID: APMW-5D

Lab Sample ID: 400-191553-6

Date Collected: 07/30/20 14:40

Matrix: Water

Date Received: 07/31/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Dissolved	Analysis	6020		5	498829	07/31/20 20:17	LDC	TAL PEN
Dissolved	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Dissolved	Analysis	6020		5	499116	08/04/20 16:49	LDC	TAL PEN
Dissolved	Prep	3005A			498629	07/31/20 10:04	NET	TAL PEN
Dissolved	Analysis	6020		5	498962	08/03/20 18:09	LDC	TAL PEN
Dissolved	Prep	7470A			498680	08/01/20 12:14	JAP	TAL PEN
Dissolved	Analysis	7470A		1	499237	08/05/20 12:57	JAP	TAL PEN
Dissolved	Analysis	SM 2540C		1	499080	08/04/20 15:13	CLB	TAL PEN
Dissolved	Analysis	SM 4500 Cl- E		1	499839	08/10/20 16:30	RRC	TAL PEN
Dissolved	Analysis	SM 4500 F C		1	499953	08/11/20 16:25	MAF	TAL PEN
Dissolved	Analysis	SM 4500 SO4 E		1	499824	08/10/20 14:50	RRC	TAL PEN

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Metals

Prep Batch: 498629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-1	APMW-16	Total Recoverable	Water	3005A	
400-191553-2	APMW-5D	Total Recoverable	Water	3005A	
400-191553-3	FB-02	Total Recoverable	Water	3005A	
400-191553-4	EB-02	Total Recoverable	Water	3005A	
400-191553-5	DUP-01	Total Recoverable	Water	3005A	
400-191553-6	APMW-5D	Dissolved	Water	3005A	
MB 400-498629/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-498629/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
400-191524-E-2-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-191524-E-2-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 498680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-1	APMW-16	Total/NA	Water	7470A	
400-191553-2	APMW-5D	Total/NA	Water	7470A	
400-191553-3	FB-02	Total/NA	Water	7470A	
400-191553-4	EB-02	Total/NA	Water	7470A	
400-191553-5	DUP-01	Total/NA	Water	7470A	
400-191553-6	APMW-5D	Dissolved	Water	7470A	
MB 400-498680/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-498680/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-191524-E-1-C MS	Matrix Spike	Total/NA	Water	7470A	
400-191524-E-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 498829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-1	APMW-16	Total Recoverable	Water	6020	498629
400-191553-2	APMW-5D	Total Recoverable	Water	6020	498629
400-191553-3	FB-02	Total Recoverable	Water	6020	498629
400-191553-4	EB-02	Total Recoverable	Water	6020	498629
400-191553-5	DUP-01	Total Recoverable	Water	6020	498629
400-191553-6	APMW-5D	Dissolved	Water	6020	498629
MB 400-498629/1-A ^5	Method Blank	Total Recoverable	Water	6020	498629
LCS 400-498629/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	498629
400-191524-E-2-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	498629
400-191524-E-2-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	498629

Analysis Batch: 498962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-1	APMW-16	Total Recoverable	Water	6020	498629
400-191553-2	APMW-5D	Total Recoverable	Water	6020	498629
400-191553-3	FB-02	Total Recoverable	Water	6020	498629
400-191553-4	EB-02	Total Recoverable	Water	6020	498629
400-191553-5	DUP-01	Total Recoverable	Water	6020	498629
400-191553-6	APMW-5D	Dissolved	Water	6020	498629
MB 400-498629/1-A ^5	Method Blank	Total Recoverable	Water	6020	498629
LCS 400-498629/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020	498629
400-191524-E-2-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	498629
400-191524-E-2-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	498629

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Metals

Analysis Batch: 499116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-1	APMW-16	Total Recoverable	Water	6020	498629
400-191553-2	APMW-5D	Total Recoverable	Water	6020	498629
400-191553-3	FB-02	Total Recoverable	Water	6020	498629
400-191553-4	EB-02	Total Recoverable	Water	6020	498629
400-191553-6	APMW-5D	Dissolved	Water	6020	498629

Analysis Batch: 499237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-1	APMW-16	Total/NA	Water	7470A	498680
400-191553-2	APMW-5D	Total/NA	Water	7470A	498680
400-191553-3	FB-02	Total/NA	Water	7470A	498680
400-191553-4	EB-02	Total/NA	Water	7470A	498680
400-191553-5	DUP-01	Total/NA	Water	7470A	498680
400-191553-6	APMW-5D	Dissolved	Water	7470A	498680
MB 400-498680/14-A	Method Blank	Total/NA	Water	7470A	498680
LCS 400-498680/15-A	Lab Control Sample	Total/NA	Water	7470A	498680
400-191524-E-1-C MS	Matrix Spike	Total/NA	Water	7470A	498680
400-191524-E-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	498680

General Chemistry

Analysis Batch: 499080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-1	APMW-16	Total/NA	Water	SM 2540C	
400-191553-2	APMW-5D	Total/NA	Water	SM 2540C	
400-191553-3	FB-02	Total/NA	Water	SM 2540C	
400-191553-4	EB-02	Total/NA	Water	SM 2540C	
400-191553-5	DUP-01	Total/NA	Water	SM 2540C	
400-191553-6	APMW-5D	Dissolved	Water	SM 2540C	
MB 400-499080/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-499080/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-191524-D-4 DU	Duplicate	Total/NA	Water	SM 2540C	
400-191584-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 499801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-1	APMW-16	Total/NA	Water	SM 4500 SO4 E	
400-191553-2	APMW-5D	Total/NA	Water	SM 4500 SO4 E	
400-191553-3	FB-02	Total/NA	Water	SM 4500 SO4 E	
400-191553-4	EB-02	Total/NA	Water	SM 4500 SO4 E	
MB 400-499801/18	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-499801/27	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-499801/15	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
480-173168-D-2 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
480-173168-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 499824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-5	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-191553-6	APMW-5D	Dissolved	Water	SM 4500 SO4 E	
MB 400-499824/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

General Chemistry (Continued)

Analysis Batch: 499824 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-499824/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-499824/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-191553-6 MS	APMW-5D	Dissolved	Water	SM 4500 SO4 E	
400-191553-6 MSD	APMW-5D	Dissolved	Water	SM 4500 SO4 E	

Analysis Batch: 499839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-1	APMW-16	Total/NA	Water	SM 4500 Cl- E	
400-191553-2	APMW-5D	Total/NA	Water	SM 4500 Cl- E	
400-191553-3	FB-02	Total/NA	Water	SM 4500 Cl- E	
400-191553-4	EB-02	Total/NA	Water	SM 4500 Cl- E	
400-191553-5	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-191553-6	APMW-5D	Dissolved	Water	SM 4500 Cl- E	
MB 400-499839/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-499839/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-499839/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-191553-4 MS	EB-02	Total/NA	Water	SM 4500 Cl- E	
400-191553-4 MSD	EB-02	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 499953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-1	APMW-16	Total/NA	Water	SM 4500 F C	
400-191553-2	APMW-5D	Total/NA	Water	SM 4500 F C	
400-191553-3	FB-02	Total/NA	Water	SM 4500 F C	
400-191553-4	EB-02	Total/NA	Water	SM 4500 F C	
400-191553-5	DUP-01	Total/NA	Water	SM 4500 F C	
400-191553-6	APMW-5D	Dissolved	Water	SM 4500 F C	
MB 400-499953/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-499953/11	Lab Control Sample	Total/NA	Water	SM 4500 F C	
240-134393-D-4 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
240-134393-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
240-134483-A-2 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
240-134483-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 501073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-1	APMW-16	Total/NA	Water	Field Sampling	
400-191553-2	APMW-5D	Total/NA	Water	Field Sampling	
400-191553-5	DUP-01	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-498629/1-A ^5
Matrix: Water
Analysis Batch: 498829

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 498629

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.00150	U	0.00250	0.00150	mg/L		07/31/20 10:04	07/31/20 16:15	5
Antimony, Dissolved	0.00150	U	0.00250	0.00150	mg/L		07/31/20 10:04	07/31/20 16:15	5
Arsenic	0.000390	U	0.00125	0.000390	mg/L		07/31/20 10:04	07/31/20 16:15	5
Arsenic, Dissolved	0.000390	U	0.00125	0.000390	mg/L		07/31/20 10:04	07/31/20 16:15	5
Barium	0.000700	U	0.00250	0.000700	mg/L		07/31/20 10:04	07/31/20 16:15	5
Barium, Dissolved	0.000700	U	0.00250	0.000700	mg/L		07/31/20 10:04	07/31/20 16:15	5
Beryllium	0.0001750	J	0.00250	0.000170	mg/L		07/31/20 10:04	07/31/20 16:15	5
Beryllium, Dissolved	0.0001750	J	0.00250	0.000170	mg/L		07/31/20 10:04	07/31/20 16:15	5
Boron	0.0180	U ^	0.0500	0.0180	mg/L		07/31/20 10:04	07/31/20 16:15	5
Boron, Dissolved	0.0180	U ^	0.0500	0.0180	mg/L		07/31/20 10:04	07/31/20 16:15	5
Cadmium	0.000280	U	0.00250	0.000280	mg/L		07/31/20 10:04	07/31/20 16:15	5
Cadmium, Dissolved	0.000280	U	0.00250	0.000280	mg/L		07/31/20 10:04	07/31/20 16:15	5
Calcium	0.125	U	0.250	0.125	mg/L		07/31/20 10:04	07/31/20 16:15	5
Calcium, Dissolved	0.125	U	0.250	0.125	mg/L		07/31/20 10:04	07/31/20 16:15	5
Chromium	0.00100	U	0.00250	0.00100	mg/L		07/31/20 10:04	07/31/20 16:15	5
Chromium, Dissolved	0.00100	U	0.00250	0.00100	mg/L		07/31/20 10:04	07/31/20 16:15	5
Cobalt	0.000560	U	0.00250	0.000560	mg/L		07/31/20 10:04	07/31/20 16:15	5
Cobalt, Dissolved	0.000560	U	0.00250	0.000560	mg/L		07/31/20 10:04	07/31/20 16:15	5
Lead	0.000290	U	0.00125	0.000290	mg/L		07/31/20 10:04	07/31/20 16:15	5
Lead, Dissolved	0.000290	U	0.00125	0.000290	mg/L		07/31/20 10:04	07/31/20 16:15	5
Molybdenum	0.00450	U	0.0150	0.00450	mg/L		07/31/20 10:04	07/31/20 16:15	5
Molybdenum, Dissolved	0.00450	U	0.0150	0.00450	mg/L		07/31/20 10:04	07/31/20 16:15	5
Selenium	0.000820	U	0.00125	0.000820	mg/L		07/31/20 10:04	07/31/20 16:15	5
Selenium, Dissolved	0.000820	U	0.00125	0.000820	mg/L		07/31/20 10:04	07/31/20 16:15	5
Thallium	0.000120	U	0.000500	0.000120	mg/L		07/31/20 10:04	07/31/20 16:15	5
Thallium, Dissolved	0.000120	U	0.000500	0.000120	mg/L		07/31/20 10:04	07/31/20 16:15	5

Lab Sample ID: MB 400-498629/1-A ^5
Matrix: Water
Analysis Batch: 498962

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 498629

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lithium	0.00190	U	0.00500	0.00190	mg/L		07/31/20 10:04	08/03/20 16:22	5
Lithium, Dissolved	0.00190	U	0.00500	0.00190	mg/L		07/31/20 10:04	08/03/20 16:22	5

Lab Sample ID: LCS 400-498629/2-A ^5
Matrix: Water
Analysis Batch: 498829

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 498629

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Antimony	0.0500	0.05138		mg/L		103	80 - 120
Antimony, Dissolved	0.0500	0.05138		mg/L		103	80 - 120
Arsenic	0.0500	0.04479		mg/L		90	80 - 120
Arsenic, Dissolved	0.0500	0.04479		mg/L		90	80 - 120
Barium	0.0500	0.04593		mg/L		92	80 - 120
Barium, Dissolved	0.0500	0.04593		mg/L		92	80 - 120
Beryllium	0.0500	0.04875		mg/L		98	80 - 120
Beryllium, Dissolved	0.0500	0.04875		mg/L		98	80 - 120
Cadmium	0.0500	0.04908		mg/L		98	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 400-498629/2-A ^5
Matrix: Water
Analysis Batch: 498829

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 498629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium, Dissolved	0.0500	0.04908		mg/L		98	80 - 120
Calcium	5.00	4.022		mg/L		80	80 - 120
Calcium, Dissolved	5.00	4.022		mg/L		80	80 - 120
Chromium	0.0500	0.04828		mg/L		97	80 - 120
Chromium, Dissolved	0.0500	0.04828		mg/L		97	80 - 120
Cobalt	0.0500	0.04816		mg/L		96	80 - 120
Cobalt, Dissolved	0.0500	0.04816		mg/L		96	80 - 120
Lead	0.0500	0.04744		mg/L		95	80 - 120
Lead, Dissolved	0.0500	0.04744		mg/L		95	80 - 120
Molybdenum	0.0500	0.04721		mg/L		94	80 - 120
Molybdenum, Dissolved	0.0500	0.04721		mg/L		94	80 - 120
Selenium	0.0500	0.04860		mg/L		97	80 - 120
Selenium, Dissolved	0.0500	0.04860		mg/L		97	80 - 120
Thallium	0.0100	0.009485		mg/L		95	80 - 120
Thallium, Dissolved	0.0100	0.009485		mg/L		95	80 - 120

Lab Sample ID: LCS 400-498629/2-A ^5
Matrix: Water
Analysis Batch: 498962

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 498629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.100	0.1080		mg/L		108	80 - 120
Boron, Dissolved	0.100	0.1080		mg/L		108	80 - 120
Lithium	0.0500	0.04986		mg/L		100	80 - 120
Lithium, Dissolved	0.0500	0.04986		mg/L		100	80 - 120

Lab Sample ID: 400-191524-E-2-B MS ^5
Matrix: Water
Analysis Batch: 498829

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 498629

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.00150	U	0.0500	0.05895		mg/L		118	75 - 125
Antimony, Dissolved	0.00150	U	0.0500	0.05895		mg/L		118	75 - 125
Arsenic	0.000465	J	0.0500	0.04613		mg/L		91	75 - 125
Arsenic, Dissolved	0.000465	J	0.0500	0.04613		mg/L		91	75 - 125
Barium	0.0345		0.0500	0.07944		mg/L		90	75 - 125
Barium, Dissolved	0.0345		0.0500	0.07944		mg/L		90	75 - 125
Beryllium	0.000245	J B	0.0500	0.04994		mg/L		99	75 - 125
Beryllium, Dissolved	0.000245	J B	0.0500	0.04994		mg/L		99	75 - 125
Boron	0.0486	J ^	0.100	0.1321	^	mg/L		83	75 - 125
Boron, Dissolved	0.0486	J ^	0.100	0.1321	^	mg/L		83	75 - 125
Cadmium	0.000280	U	0.0500	0.05088		mg/L		102	75 - 125
Cadmium, Dissolved	0.000280	U	0.0500	0.05088		mg/L		102	75 - 125
Calcium	2.70		5.00	6.920		mg/L		84	75 - 125
Calcium, Dissolved	2.70		5.00	6.920		mg/L		84	75 - 125
Chromium	0.00100	U	0.0500	0.04913		mg/L		98	75 - 125
Chromium, Dissolved	0.00100	U	0.0500	0.04913		mg/L		98	75 - 125
Cobalt	0.000665	J	0.0500	0.05067		mg/L		100	75 - 125
Cobalt, Dissolved	0.000665	J	0.0500	0.05067		mg/L		100	75 - 125

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-191524-E-2-B MS ^5
Matrix: Water
Analysis Batch: 498829

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 498629

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	0.000470	J	0.0500	0.04913		mg/L		97	75 - 125
Lead, Dissolved	0.000470	J	0.0500	0.04913		mg/L		97	75 - 125
Lithium	0.00418	J ^ B	0.0500	0.05034	^	mg/L		92	75 - 125
Lithium, Dissolved	0.00418	J ^ B	0.0500	0.05034	^	mg/L		92	75 - 125
Molybdenum	0.00450	U	0.0500	0.05138		mg/L		103	75 - 125
Molybdenum, Dissolved	0.00450	U	0.0500	0.05138		mg/L		103	75 - 125
Selenium	0.000820	U	0.0500	0.04972		mg/L		99	75 - 125
Selenium, Dissolved	0.000820	U	0.0500	0.04972		mg/L		99	75 - 125
Thallium	0.000120	U	0.0100	0.009760		mg/L		98	75 - 125
Thallium, Dissolved	0.000120	U	0.0100	0.009760		mg/L		98	75 - 125

Lab Sample ID: 400-191524-E-2-B MS ^5
Matrix: Water
Analysis Batch: 498962

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 498629

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Boron	0.0363	J	0.100	0.1364		mg/L		100	75 - 125
Boron, Dissolved	0.0363	J	0.100	0.1364		mg/L		100	75 - 125
Lithium	0.00190	U	0.0500	0.05310		mg/L		106	75 - 125
Lithium, Dissolved	0.00190	U	0.0500	0.05310		mg/L		106	75 - 125

Lab Sample ID: 400-191524-E-2-C MSD ^5
Matrix: Water
Analysis Batch: 498829

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 498629

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.00150	U	0.0500	0.05436		mg/L		109	75 - 125	8	20
Antimony, Dissolved	0.00150	U	0.0500	0.05436		mg/L		109	75 - 125	8	20
Arsenic	0.000465	J	0.0500	0.05044		mg/L		100	75 - 125	9	20
Arsenic, Dissolved	0.000465	J	0.0500	0.05044		mg/L		100	75 - 125	9	20
Barium	0.0345		0.0500	0.08156		mg/L		94	75 - 125	3	20
Barium, Dissolved	0.0345		0.0500	0.08156		mg/L		94	75 - 125	3	20
Beryllium	0.000245	J B	0.0500	0.05095		mg/L		101	75 - 125	2	20
Beryllium, Dissolved	0.000245	J B	0.0500	0.05095		mg/L		101	75 - 125	2	20
Boron	0.0486	J ^	0.100	0.1326	^	mg/L		84	75 - 125	0	20
Boron, Dissolved	0.0486	J ^	0.100	0.1326	^	mg/L		84	75 - 125	0	20
Cadmium	0.000280	U	0.0500	0.04884		mg/L		98	75 - 125	4	20
Cadmium, Dissolved	0.000280	U	0.0500	0.04884		mg/L		98	75 - 125	4	20
Calcium	2.70		5.00	6.788		mg/L		82	75 - 125	2	20
Calcium, Dissolved	2.70		5.00	6.788		mg/L		82	75 - 125	2	20
Chromium	0.00100	U	0.0500	0.04937		mg/L		99	75 - 125	0	20
Chromium, Dissolved	0.00100	U	0.0500	0.04937		mg/L		99	75 - 125	0	20
Cobalt	0.000665	J	0.0500	0.05082		mg/L		100	75 - 125	0	20
Cobalt, Dissolved	0.000665	J	0.0500	0.05082		mg/L		100	75 - 125	0	20
Lead	0.000470	J	0.0500	0.04889		mg/L		97	75 - 125	0	20
Lead, Dissolved	0.000470	J	0.0500	0.04889		mg/L		97	75 - 125	0	20
Lithium	0.00418	J ^ B	0.0500	0.05530	^	mg/L		102	75 - 125	9	20
Lithium, Dissolved	0.00418	J ^ B	0.0500	0.05530	^	mg/L		102	75 - 125	9	20
Molybdenum	0.00450	U	0.0500	0.04827		mg/L		97	75 - 125	6	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-191524-E-2-C MSD ^5
Matrix: Water
Analysis Batch: 498829

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 498629

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum, Dissolved	0.00450	U	0.0500	0.04827		mg/L		97	75 - 125	6	20
Selenium	0.000820	U	0.0500	0.04863		mg/L		97	75 - 125	2	20
Selenium, Dissolved	0.000820	U	0.0500	0.04863		mg/L		97	75 - 125	2	20
Thallium	0.000120	U	0.0100	0.009755		mg/L		98	75 - 125	0	20
Thallium, Dissolved	0.000120	U	0.0100	0.009755		mg/L		98	75 - 125	0	20

Lab Sample ID: 400-191524-E-2-C MSD ^5
Matrix: Water
Analysis Batch: 498962

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 498629

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	0.0363	J	0.100	0.1330		mg/L		97	75 - 125	3	20
Boron, Dissolved	0.0363	J	0.100	0.1330		mg/L		97	75 - 125	3	20
Lithium	0.00190	U	0.0500	0.05177		mg/L		104	75 - 125	3	20
Lithium, Dissolved	0.00190	U	0.0500	0.05177		mg/L		104	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-498680/14-A
Matrix: Water
Analysis Batch: 499237

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000700	U	0.000200	0.0000700	mg/L		08/01/20 12:14	08/05/20 12:23	1
Mercury, Dissolved	0.0000700	U	0.000200	0.0000700	mg/L		08/01/20 12:14	08/05/20 12:23	1

Lab Sample ID: LCS 400-498680/15-A
Matrix: Water
Analysis Batch: 499237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.001033		mg/L		103	80 - 120
Mercury, Dissolved	0.00101	0.001033		mg/L		103	80 - 120

Lab Sample ID: 400-191524-E-1-C MS
Matrix: Water
Analysis Batch: 499237

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 498680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0000700	U	0.00201	0.002052		mg/L		102	80 - 120
Mercury, Dissolved	0.0000700	U	0.00201	0.002052		mg/L		102	80 - 120

Lab Sample ID: 400-191524-E-1-D MSD
Matrix: Water
Analysis Batch: 499237

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 498680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0000700	U	0.00201	0.002041		mg/L		101	80 - 120	1	20
Mercury, Dissolved	0.0000700	U	0.00201	0.002041		mg/L		101	80 - 120	1	20

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-499080/1
Matrix: Water
Analysis Batch: 499080

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	5.00	U	5.00	5.00	mg/L	-		08/04/20 15:13	1

Lab Sample ID: LCS 400-499080/2
Matrix: Water
Analysis Batch: 499080

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	358.0		mg/L	-	122	78 - 122

Lab Sample ID: 400-191524-D-4 DU
Matrix: Water
Analysis Batch: 499080

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	352		470.0	F3	mg/L	-	29	5

Lab Sample ID: 400-191584-B-1 DU
Matrix: Water
Analysis Batch: 499080

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	298		290.0		mg/L	-	3	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-499839/6
Matrix: Water
Analysis Batch: 499839

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.40	U	2.00	1.40	mg/L	-		08/10/20 16:20	1
Chloride, Dissolved	1.40	U	2.00	1.40	mg/L	-		08/10/20 16:20	1

Lab Sample ID: LCS 400-499839/7
Matrix: Water
Analysis Batch: 499839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	28.51		mg/L	-	95	90 - 110
Chloride, Dissolved	30.0	28.51		mg/L	-	95	90 - 110

Lab Sample ID: MRL 400-499839/3
Matrix: Water
Analysis Batch: 499839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	2.064		mg/L	-	103	50 - 150
Chloride, Dissolved	2.00	2.064		mg/L	-	103	50 - 150

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 400-191553-4 MS
Matrix: Water
Analysis Batch: 499839

Client Sample ID: EB-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.40	U	10.0	11.31		mg/L		113	73 - 120
Chloride, Dissolved	1.40	U	10.0	11.31		mg/L		113	73 - 120

Lab Sample ID: 400-191553-4 MSD
Matrix: Water
Analysis Batch: 499839

Client Sample ID: EB-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.40	U	10.0	11.05		mg/L		110	73 - 120	2	8
Chloride, Dissolved	1.40	U	10.0	11.05		mg/L		110	73 - 120	2	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-499953/3
Matrix: Water
Analysis Batch: 499953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.0320	U	0.100	0.0320	mg/L			08/11/20 15:25	1
Fluoride, Dissolved	0.0320	U	0.100	0.0320	mg/L			08/11/20 15:25	1

Lab Sample ID: LCS 400-499953/11
Matrix: Water
Analysis Batch: 499953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.310		mg/L		108	90 - 110
Fluoride, Dissolved	4.00	4.310		mg/L		108	90 - 110

Lab Sample ID: 240-134393-D-4 MS
Matrix: Water
Analysis Batch: 499953

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.13		1.00	2.040		mg/L		91	75 - 125
Fluoride, Dissolved	1.13		1.00	2.040		mg/L		91	75 - 125

Lab Sample ID: 240-134393-D-4 MSD
Matrix: Water
Analysis Batch: 499953

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	1.13		1.00	2.040		mg/L		91	75 - 125	0	4
Fluoride, Dissolved	1.13		1.00	2.040		mg/L		91	75 - 125	0	4

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 240-134483-A-2 MS
Matrix: Water
Analysis Batch: 499953

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.01	F1	1.00	1.750	F1	mg/L		74	75 - 125
Fluoride, Dissolved	1.01	F1	1.00	1.750	F1	mg/L		74	75 - 125

Lab Sample ID: 240-134483-A-2 MSD
Matrix: Water
Analysis Batch: 499953

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	1.01	F1	1.00	1.780		mg/L		77	75 - 125	2	4
Fluoride, Dissolved	1.01	F1	1.00	1.780		mg/L		77	75 - 125	2	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-499801/18
Matrix: Water
Analysis Batch: 499801

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.725	J	5.00	1.40	mg/L			08/10/20 14:08	1

Lab Sample ID: LCS 400-499801/27
Matrix: Water
Analysis Batch: 499801

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	16.33		mg/L		109	90 - 110

Lab Sample ID: MRL 400-499801/15
Matrix: Water
Analysis Batch: 499801

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	6.087		mg/L		122	50 - 150

Lab Sample ID: 480-173168-D-2 MS
Matrix: Water
Analysis Batch: 499801

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	18.0	B	10.0	28.46		mg/L		105	77 - 128

Lab Sample ID: 480-173168-D-2 MSD
Matrix: Water
Analysis Batch: 499801

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	18.0	B	10.0	28.28		mg/L		103	77 - 128	1	5

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: MB 400-499824/6
Matrix: Water
Analysis Batch: 499824

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.552	J	5.00	1.40	mg/L			08/10/20 14:50	1
Sulfate, Dissolved	1.552	J	5.00	1.40	mg/L			08/10/20 14:50	1

Lab Sample ID: LCS 400-499824/7
Matrix: Water
Analysis Batch: 499824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	16.01		mg/L		107	90 - 110
Sulfate, Dissolved	15.0	16.01		mg/L		107	90 - 110

Lab Sample ID: MRL 400-499824/3
Matrix: Water
Analysis Batch: 499824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	6.054		mg/L		121	50 - 150
Sulfate, Dissolved	5.00	6.054		mg/L		121	50 - 150

Lab Sample ID: 400-191553-6 MS
Matrix: Water
Analysis Batch: 499824

Client Sample ID: APMW-5D
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	8.33	B	10.0	18.91		mg/L		106	77 - 128
Sulfate, Dissolved	8.33	B	10.0	18.91		mg/L		106	77 - 128

Lab Sample ID: 400-191553-6 MSD
Matrix: Water
Analysis Batch: 499824

Client Sample ID: APMW-5D
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	8.33	B	10.0	18.76		mg/L		104	77 - 128	1	5
Sulfate, Dissolved	8.33	B	10.0	18.76		mg/L		104	77 - 128	1	5

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-191553-1

Login Number: 191553

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Whitley, Adrian

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	1325849
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	1.6, 4.1°C, IR9
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: Plant Watson

Job ID: 400-191553-1

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-21
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20



ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-191553-2
Client Project/Site: Plant Watson

For:
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Attn: Lauren Parker



Authorized for release by:
9/14/2020 6:35:43 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@Eurofinset.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.



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Case Narrative

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Job ID: 400-191553-2

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative 400-191553-2

RAD

Method 9315: Radium-226 prep batch 160-478597. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-16 (400-191553-1), APMW-5D (400-191553-2), FB-02 (400-191553-3), EB-02 (400-191553-4), DUP-01 (400-191553-5), APMW-5D (400-191553-6), (LCS 160-478597/1-A), (MB 160-478597/24-A), (400-191643-A-1-A), (400-191643-A-1-B MS) and (400-191643-A-1-C MSD)

Method 9320: Radium-228 Prep Batch 160-478599. The radium-228 detection goal was not met for the following sample due to the presence of matrix interferences: APMW-5D (400-191553-2). Analytical results are reported with the detection limit achieved.

Method 9320: Radium-228 Prep Batch 160-478599. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. APMW-16 (400-191553-1), APMW-5D (400-191553-2), FB-02 (400-191553-3), EB-02 (400-191553-4), DUP-01 (400-191553-5), APMW-5D (400-191553-6), (LCS 160-478599/1-A), (MB 160-478599/24-A), (400-191643-A-1-D), (400-191643-A-1-E MS) and (400-191643-A-1-F MSD)

Method PrecSep_0: Radium 228 Prep Batch 160-478599. The following samples were prepared at a reduced aliquot due to discoloration and cloudy appearance: APMW-16 (400-191553-1), APMW-5D (400-191553-2) and DUP-01 (400-191553-5). Samples 400-191553-1 and 400-191533-5 have a yellow discoloration and sample 400-191553-2 has a cloudy appearance.

Method PrecSep-21: Radium 226 Prep Batch 160-478597. The following samples were prepared at a reduced aliquot due to discoloration and cloudy appearance: APMW-16 (400-191553-1), APMW-5D (400-191553-2) and DUP-01 (400-191553-5). Samples 400-191553-1 and 400-191533-5 have a yellow discoloration and sample 400-191553-2 has a cloudy appearance.

Method Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

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
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-191553-1	APMW-16	Water	07/30/20 10:12	07/31/20 08:20	
400-191553-2	APMW-5D	Water	07/30/20 14:40	07/31/20 08:20	
400-191553-3	FB-02	Water	07/30/20 15:00	07/31/20 08:20	
400-191553-4	EB-02	Water	07/30/20 15:10	07/31/20 08:20	
400-191553-5	DUP-01	Water	07/30/20 09:12	07/31/20 08:20	
400-191553-6	APMW-5D	Water	07/30/20 14:40	07/31/20 08:20	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Client Sample ID: APMW-16

Lab Sample ID: 400-191553-1

Date Collected: 07/30/20 10:12

Matrix: Water

Date Received: 07/31/20 08:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.09		0.237	0.256	1.00	0.168	pCi/L	08/05/20 09:45	08/27/20 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					08/05/20 09:45	08/27/20 12:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.30		0.476	0.491	1.00	0.652	pCi/L	08/05/20 10:52	08/20/20 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					08/05/20 10:52	08/20/20 13:19	1
Y Carrier	80.7		40 - 110					08/05/20 10:52	08/20/20 13:19	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	2.38		0.532	0.554	5.00	0.652	pCi/L		09/09/20 18:57	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Client Sample ID: APMW-5D

Lab Sample ID: 400-191553-2

Date Collected: 07/30/20 14:40

Matrix: Water

Date Received: 07/31/20 08:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.213		0.150	0.151	1.00	0.199	pCi/L	08/05/20 09:45	08/27/20 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.0		40 - 110					08/05/20 09:45	08/27/20 12:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00559	U G	0.571	0.571	1.00	1.02	pCi/L	08/05/20 10:52	08/20/20 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.0		40 - 110					08/05/20 10:52	08/20/20 13:19	1
Y Carrier	81.1		40 - 110					08/05/20 10:52	08/20/20 13:19	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	0.219	U	0.590	0.591	5.00	1.02	pCi/L		09/09/20 18:57	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Client Sample ID: FB-02

Lab Sample ID: 400-191553-3

Date Collected: 07/30/20 15:00

Matrix: Water

Date Received: 07/31/20 08:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0947		0.0633	0.0639	1.00	0.0817	pCi/L	08/05/20 09:45	08/27/20 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	107		40 - 110					08/05/20 09:45	08/27/20 14:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.138	U	0.215	0.216	1.00	0.363	pCi/L	08/05/20 10:52	08/20/20 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	107		40 - 110					08/05/20 10:52	08/20/20 13:19	1
Y Carrier	82.6		40 - 110					08/05/20 10:52	08/20/20 13:19	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	0.233	U	0.224	0.225	5.00	0.363	pCi/L		09/09/20 18:57	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Client Sample ID: EB-02
Date Collected: 07/30/20 15:10
Date Received: 07/31/20 08:20

Lab Sample ID: 400-191553-4
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	-0.0631	U	0.0560	0.0563	1.00	0.141	pCi/L	08/05/20 09:45	08/27/20 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					08/05/20 09:45	08/27/20 14:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.225	U	0.256	0.257	1.00	0.420	pCi/L	08/05/20 10:52	08/20/20 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					08/05/20 10:52	08/20/20 13:19	1
Y Carrier	82.2		40 - 110					08/05/20 10:52	08/20/20 13:19	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	0.162	U	0.262	0.263	5.00	0.420	pCi/L		09/09/20 18:57	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Client Sample ID: DUP-01
Date Collected: 07/30/20 09:12
Date Received: 07/31/20 08:20

Lab Sample ID: 400-191553-5
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	0.947		0.240	0.255	1.00	0.224	pCi/L	08/05/20 09:45	08/27/20 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.0		40 - 110					08/05/20 09:45	08/27/20 14:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.58		0.490	0.511	1.00	0.633	pCi/L	08/05/20 10:52	08/20/20 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.0		40 - 110					08/05/20 10:52	08/20/20 13:19	1
Y Carrier	78.1		40 - 110					08/05/20 10:52	08/20/20 13:19	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	2.53		0.546	0.571	5.00	0.633	pCi/L		09/09/20 18:57	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Client Sample ID: APMW-5D

Lab Sample ID: 400-191553-6

Date Collected: 07/30/20 14:40

Matrix: Water

Date Received: 07/31/20 08:20

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0815	U	0.0703	0.0707	1.00	0.106	pCi/L	08/05/20 09:45	08/27/20 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					08/05/20 09:45	08/27/20 14:17	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	0.279	U	0.255	0.256	1.00	0.410	pCi/L	08/05/20 10:52	08/20/20 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					08/05/20 10:52	08/20/20 13:19	1
Y Carrier	80.0		40 - 110					08/05/20 10:52	08/20/20 13:19	1

Method: Ra226_Ra228 Pos - 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	0.361	U	0.265	0.266	5.00	0.410	pCi/L		09/14/20 10:51	1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Client Sample ID: APMW-16

Lab Sample ID: 400-191553-1

Date Collected: 07/30/20 10:12

Matrix: Water

Date Received: 07/31/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			478597	08/05/20 09:45	RBR	TAL SL
Total/NA	Analysis	9315		1	480862	08/27/20 12:35	SCB	TAL SL
Total/NA	Prep	PrecSep_0			478599	08/05/20 10:52	RBR	TAL SL
Total/NA	Analysis	9320		1	479986	08/20/20 13:19	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	481839	09/09/20 18:57	CAH	TAL SL

Client Sample ID: APMW-5D

Lab Sample ID: 400-191553-2

Date Collected: 07/30/20 14:40

Matrix: Water

Date Received: 07/31/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			478597	08/05/20 09:45	RBR	TAL SL
Total/NA	Analysis	9315		1	480861	08/27/20 12:34	SCB	TAL SL
Total/NA	Prep	PrecSep_0			478599	08/05/20 10:52	RBR	TAL SL
Total/NA	Analysis	9320		1	479986	08/20/20 13:19	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	481839	09/09/20 18:57	CAH	TAL SL

Client Sample ID: FB-02

Lab Sample ID: 400-191553-3

Date Collected: 07/30/20 15:00

Matrix: Water

Date Received: 07/31/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			478597	08/05/20 09:45	RBR	TAL SL
Total/NA	Analysis	9315		1	480861	08/27/20 14:17	SCB	TAL SL
Total/NA	Prep	PrecSep_0			478599	08/05/20 10:52	RBR	TAL SL
Total/NA	Analysis	9320		1	479986	08/20/20 13:19	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	481839	09/09/20 18:57	CAH	TAL SL

Client Sample ID: EB-02

Lab Sample ID: 400-191553-4

Date Collected: 07/30/20 15:10

Matrix: Water

Date Received: 07/31/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			478597	08/05/20 09:45	RBR	TAL SL
Total/NA	Analysis	9315		1	480862	08/27/20 14:17	SCB	TAL SL
Total/NA	Prep	PrecSep_0			478599	08/05/20 10:52	RBR	TAL SL
Total/NA	Analysis	9320		1	479986	08/20/20 13:19	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	481839	09/09/20 18:57	CAH	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Client Sample ID: DUP-01

Lab Sample ID: 400-191553-5

Date Collected: 07/30/20 09:12

Matrix: Water

Date Received: 07/31/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			478597	08/05/20 09:45	RBR	TAL SL
Total/NA	Analysis	9315		1	480862	08/27/20 14:17	SCB	TAL SL
Total/NA	Prep	PrecSep_0			478599	08/05/20 10:52	RBR	TAL SL
Total/NA	Analysis	9320		1	479986	08/20/20 13:19	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	481839	09/09/20 18:57	CAH	TAL SL

Client Sample ID: APMW-5D

Lab Sample ID: 400-191553-6

Date Collected: 07/30/20 14:40

Matrix: Water

Date Received: 07/31/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			478597	08/05/20 09:45	RBR	TAL SL
Dissolved	Analysis	9315		1	480862	08/27/20 14:17	SCB	TAL SL
Dissolved	Prep	PrecSep_0			478599	08/05/20 10:52	RBR	TAL SL
Dissolved	Analysis	9320		1	479986	08/20/20 13:19	SCB	TAL SL
Dissolved	Analysis	Ra226_Ra228 Pos		1	482405	09/14/20 10:51	CAH	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Rad

Prep Batch: 478597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-1	APMW-16	Total/NA	Water	PrecSep-21	
400-191553-2	APMW-5D	Total/NA	Water	PrecSep-21	
400-191553-3	FB-02	Total/NA	Water	PrecSep-21	
400-191553-4	EB-02	Total/NA	Water	PrecSep-21	
400-191553-5	DUP-01	Total/NA	Water	PrecSep-21	
400-191553-6	APMW-5D	Dissolved	Water	PrecSep-21	
MB 160-478597/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-478597/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-191643-A-1-B MS	Matrix Spike	Total/NA	Water	PrecSep-21	
400-191643-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 478599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-191553-1	APMW-16	Total/NA	Water	PrecSep_0	
400-191553-2	APMW-5D	Total/NA	Water	PrecSep_0	
400-191553-3	FB-02	Total/NA	Water	PrecSep_0	
400-191553-4	EB-02	Total/NA	Water	PrecSep_0	
400-191553-5	DUP-01	Total/NA	Water	PrecSep_0	
400-191553-6	APMW-5D	Dissolved	Water	PrecSep_0	
MB 160-478599/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-478599/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-191643-A-1-E MS	Matrix Spike	Total/NA	Water	PrecSep_0	
400-191643-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-478597/24-A
Matrix: Water
Analysis Batch: 481079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478597

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.0000	U	0.0962	0.0962	1.00	0.188	pCi/L	08/05/20 09:45	08/28/20 07:29	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					08/05/20 09:45	08/28/20 07:29	1

Lab Sample ID: LCS 160-478597/1-A
Matrix: Water
Analysis Batch: 480862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 478597

Analyte	LCS LCS		Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)					
Radium-226			15.1	14.13		1.49	1.00	0.196	pCi/L	93	75 - 125
Carrier	LCS LCS		Limits								
Ba Carrier	%Yield	Qualifier	40 - 110								

Lab Sample ID: 400-191643-A-1-B MS
Matrix: Water
Analysis Batch: 480862

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 478597

Analyte	Sample Sample		Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qual	Added	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0884	U	15.1	11.89		1.28	1.00	0.191	pCi/L	78	75 - 138
Carrier	MS MS		Limits								
Ba Carrier	%Yield	Qualifier	40 - 110								

Lab Sample ID: 400-191643-A-1-C MSD
Matrix: Water
Analysis Batch: 480862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 478597

Analyte	Sample Sample		Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
	Result	Qual	Added	Result	Qual	Uncert. (2σ+/-)							
Radium-226	0.0884	U	15.1	13.64		1.43	1.00	0.148	pCi/L	90	75 - 138	0.65	1
Carrier	MSD MSD		Limits										
Ba Carrier	%Yield	Qualifier	40 - 110										

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-478599/24-A
Matrix: Water
Analysis Batch: 480038

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478599

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.6737		0.340	0.346	1.00	0.497	pCi/L	08/05/20 10:52	08/20/20 13:24	1

Eurofins TestAmerica, Pensacola

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	96.7		40 - 110	08/05/20 10:52	08/20/20 13:24	1
Y Carrier	86.4		40 - 110	08/05/20 10:52	08/20/20 13:24	1

Lab Sample ID: LCS 160-478599/1-A
Matrix: Water
Analysis Batch: 479986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 478599

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	95.8		40 - 110
Y Carrier	77.8		40 - 110

Lab Sample ID: 400-191643-A-1-E MS
Matrix: Water
Analysis Batch: 479986

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 478599

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

Carrier	MS MS		Limits
	%Yield	Qualifier	
Ba Carrier	97.9		40 - 110
Y Carrier	79.6		40 - 110

Lab Sample ID: 400-191643-A-1-F MSD
Matrix: Water
Analysis Batch: 479986

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 478599

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit

Carrier	MSD MSD		Limits
	%Yield	Qualifier	
Ba Carrier	92.1		40 - 110
Y Carrier	86.7		40 - 110

Chain of Custody Record



Environment Testing
 America

Client Information Client Contact: Lauren Parker Company: Southern Company Address: 3535 Colonnade Parkway Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283(Tel) Email: laparker@southernco.com Project Name: Plant Waison Site:		Lab PI#: Whitmire, Cheyenne R E-Mail: Cheyenne.Whitmire@Eurofinset.com Carrier Tracking Note:	
Due Date Requested: TAT Requested (days): PO #: SCS10382808 WO #: Project #: 40001674 SSOW#:		COC No: 400-95282-34526.2 Page: Page 2 of 2 Job #:	
Sample Identification Sample ID: APN-50 Sample Date: 7-31-20 Sample Time: 1446 Matrix (W=water, S=solid, O=other): Water Sample Type (C=comp, G=grab): Preservation Code:		Analysis Requested 4500_F_C - Fluoride 6020 - Sb,As,Ba,Be,Cd,Cr,Co,Pb,LI,Mo,Sr,Tl 2540C - TDS 5M4500_SO4_E - Sulfate, Total 9315_Ra226 - Radium 226 9320_Ra226 - Radium 228 R226Ra228_GFC - Radium 226 + Radium 228 5M4500_Cl_E - Chloride, Total Field Sampling - Field Sampling pH 7470A - Mercury	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)		Total Number of Containers:	
Empty Kit Relinquished by:		Special Instructions/Notes:	
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	
Relinquished by:		Special Instructions/QC Requirements:	
Relinquished by:		Method of Shipment:	
Date/Time: 7-31-20 1446 Company:		Date/Time: 7-31-20 820 Company:	
Date/Time:		Date/Time:	
Date/Time:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-191553-2

Login Number: 191553

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Whitley, Adrian

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	1325849
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	1.6, 4.1°C, IR9
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	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-191553-2

Login Number: 191553

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/03/20 04:22 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant Watson

Job ID: 400-191553-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

			Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)		
400-191553-1	APMW-16	79.8		
400-191553-2	APMW-5D	52.0		
400-191553-3	FB-02	107		
400-191553-4	EB-02	94.0		
400-191553-5	DUP-01	81.0		
400-191643-A-1-B MS	Matrix Spike	97.9		
400-191643-A-1-C MSD	Matrix Spike Duplicate	92.1		
LCS 160-478597/1-A	Lab Control Sample	95.8		
MB 160-478597/24-A	Method Blank	96.7		

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Dissolved

			Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)		
400-191553-6	APMW-5D	98.2		

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

			Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)	
400-191553-1	APMW-16	79.8	80.7	
400-191553-2	APMW-5D	52.0	81.1	
400-191553-3	FB-02	107	82.6	
400-191553-4	EB-02	94.0	82.2	
400-191553-5	DUP-01	81.0	78.1	
400-191643-A-1-E MS	Matrix Spike	97.9	79.6	
400-191643-A-1-F MSD	Matrix Spike Duplicate	92.1	86.7	
LCS 160-478599/1-A	Lab Control Sample	95.8	77.8	
MB 160-478599/24-A	Method Blank	96.7	86.4	

Tracer/Carrier Legend
Ba = Ba Carrier
Y = Y Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Dissolved

			Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)	
400-191553-6	APMW-5D	98.2	80.0	

Tracer/Carrier Legend

Eurofins TestAmerica, Pensacola

Tracer/Carrier Summary

Client: Southern Company

Project/Site: Plant Watson

Ba = Ba Carrier

Y = Y Carrier

Job ID: 400-191553-2

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APPENDIX C

ProUCL Output

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.18/3/2020 10:34:07 AM									
5	From File		Interior Well Data ProUCL.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Number of Bootstrap Operations		2000									
9												
10												
11	Total Radium (Ash)											
12												
13	General Statistics											
14	Total Number of Observations				7		Number of Distinct Observations				7	
15							Number of Missing Observations				0	
16	Minimum				0.759		Mean				1.711	
17	Maximum				4.16		Median				0.96	
18	SD				1.401		Std. Error of Mean				0.529	
19	Coefficient of Variation				0.819		Skewness				1.339	
20												
21	Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use											
22	guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.											
23	For example, you may want to use Chebyshev UCL to estimate EPC (ITRC, 2012).											
24	Chebyshev UCL can be computed using the Nonparametric and All UCL Options of ProUCL 5.1											
25												
26	Normal GOF Test											
27	Shapiro Wilk Test Statistic				0.716		Shapiro Wilk GOF Test					
28	5% Shapiro Wilk Critical Value				0.803		Data Not Normal at 5% Significance Level					
29	Lilliefors Test Statistic				0.38		Lilliefors GOF Test					
30	5% Lilliefors Critical Value				0.304		Data Not Normal at 5% Significance Level					
31	Data Not Normal at 5% Significance Level											
32												
33	Assuming Normal Distribution											
34	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
35	95% Student's-t UCL				2.74		95% Adjusted-CLT UCL (Chen-1995)				2.868	
36							95% Modified-t UCL (Johnson-1978)				2.784	
37												
38	Gamma GOF Test											
39	A-D Test Statistic				0.95		Anderson-Darling Gamma GOF Test					
40	5% A-D Critical Value				0.714		Data Not Gamma Distributed at 5% Significance Level					
41	K-S Test Statistic				0.359		Kolmogorov-Smirnov Gamma GOF Test					
42	5% K-S Critical Value				0.315		Data Not Gamma Distributed at 5% Significance Level					
43	Data Not Gamma Distributed at 5% Significance Level											
44												
45	Gamma Statistics											
46	k hat (MLE)				2.235		k star (bias corrected MLE)				1.373	
47	Theta hat (MLE)				0.765		Theta star (bias corrected MLE)				1.246	
48	nu hat (MLE)				31.3		nu star (bias corrected)				19.22	
49	MLE Mean (bias corrected)				1.711		MLE Sd (bias corrected)				1.46	
50							Approximate Chi Square Value (0.05)				10.28	
51	Adjusted Level of Significance				0.0158		Adjusted Chi Square Value				8.376	
52												
53	Assuming Gamma Distribution											

	A	B	C	D	E	F	G	H	I	J	K	L
54	95% Approximate Gamma UCL (use when n>=50))					3.2	95% Adjusted Gamma UCL (use when n<50)					3.926
55												
56	Lognormal GOF Test											
57	Shapiro Wilk Test Statistic					0.775	Shapiro Wilk Lognormal GOF Test					
58	5% Shapiro Wilk Critical Value					0.803	Data Not Lognormal at 5% Significance Level					
59	Lilliefors Test Statistic					0.322	Lilliefors Lognormal GOF Test					
60	5% Lilliefors Critical Value					0.304	Data Not Lognormal at 5% Significance Level					
61	Data Not Lognormal at 5% Significance Level											
62												
63	Lognormal Statistics											
64	Minimum of Logged Data					-0.276	Mean of logged Data					0.297
65	Maximum of Logged Data					1.426	SD of logged Data					0.705
66												
67	Assuming Lognormal Distribution											
68	95% H-UCL					3.989	90% Chebyshev (MVUE) UCL					2.988
69	95% Chebyshev (MVUE) UCL					3.591	97.5% Chebyshev (MVUE) UCL					4.428
70	99% Chebyshev (MVUE) UCL					6.073						
71												
72	Nonparametric Distribution Free UCL Statistics											
73	Data do not follow a Discernible Distribution (0.05)											
74												
75	Nonparametric Distribution Free UCLs											
76	95% CLT UCL					2.582	95% Jackknife UCL					2.74
77	95% Standard Bootstrap UCL					2.526	95% Bootstrap-t UCL					10.18
78	95% Hall's Bootstrap UCL					10.08	95% Percentile Bootstrap UCL					2.58
79	95% BCA Bootstrap UCL					2.73						
80	90% Chebyshev(Mean, Sd) UCL					3.299	95% Chebyshev(Mean, Sd) UCL					4.018
81	97.5% Chebyshev(Mean, Sd) UCL					5.017	99% Chebyshev(Mean, Sd) UCL					6.978
82												
83	Suggested UCL to Use											
84	95% Chebyshev (Mean, Sd) UCL					4.018						
85												
86	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
87	Recommendations are based upon data size, data distribution, and skewness.											
88	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
89	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
90												