

**2022 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**

**MISSISSIPPI POWER COMPANY
PLANT VICTOR DANIEL
ASH POND B**

January 31, 2023

Prepared for

Mississippi Power Company
Gulfport, Mississippi

By

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

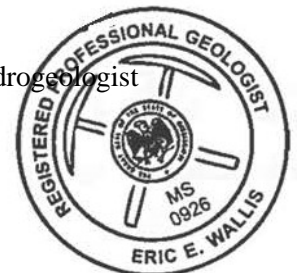
This *2022 Annual Groundwater Monitoring and Corrective Action Report*, Mississippi Power Company – Plant Daniel Ash Pond B has been prepared to comply with the United States Environmental Protection Agency coal combustion residual rule (40 Code of Federal Regulations (CFR) Part 257, Subpart D) under the supervision of a licensed Professional Geologist with Southern Company Services.



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SITE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), this *2022 Annual Groundwater Monitoring and Corrective Action Report* has been prepared to document 2022 semi-annual assessment groundwater monitoring activities at the Plant Daniel Ash Pond B (AP-B) and to satisfy the requirements of § 257.90(e). Semi-annual assessment monitoring and associated reporting for Plant Daniel AP-B 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 (SSIs) of Appendix III constituents over background were identified in the results of the first detection monitoring event and assessment monitoring was initiated in January 2018. Statistically significant levels (SSLs) of Appendix IV parameters were identified in BAW-5 for lithium during the first and second semi-annual monitoring events of 2022. However, an alternate source demonstration (ASD) was prepared for lithium at AP-B. The ASD was completed July 12, 2019 and submitted in the *2019 Annual Groundwater Monitoring and Corrective Action Report*. Therefore, pursuant to §257.95(g)(3)(ii), an assessment of corrective measures is not required, and AP-B remained in assessment monitoring.

Pursuant to 40 CFR 257.90(e)(6), the table titled **Monitoring Period Summary** has been prepared to describe the status of groundwater monitoring and corrective action during the monitoring period for this report.

Monitoring Period Summary Plant Daniel - Ash Pond B

Monitoring Period: January 1 - December 31, 2022
 Beginning Status: Assessment
 Ending Status: Assessment

STATISTICAL ANALYSIS RESULTS*

Appendix III SSIs

| Parameter | Wells |
|-----------|----------------------------|
| Boron | BAW-5, BAW-7 |
| Calcium | BAW-4, BAW-5, BAW-7 |
| Chloride | BAW-4 |
| Fluoride | BAW-5 |
| pH | BAW-3, BAW-4, BAW-5 |
| Sulfate | BAW-3, BAW-4, BAW-5, BAW-7 |
| TDS | BAW-4, BAW-5, BAW-7 |

Appendix IV SSLs

| Parameter | Wells |
|-----------|-------|
| Lithium | BAW-5 |

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

ASSESSMENT OF CORRECTIVE MEASURES & GROUNDWATER REMEDY

Assessment of Corrective Measures

Site Remains in Assessment Monitoring § 257.95(d)

Groundwater Remedy

Site Remains in Assessment Monitoring § 257.95(d)

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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations (CFR) 257, Subpart D), Southern Company Services (SCS) has prepared this *2022 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities at Mississippi Power Company (MPC) Plant Daniel Ash Pond B (AP-B).

Groundwater monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements of 40 CFR 257.90 through 257.95 of the Federal CCR rule. This report has been prepared to document the 2022 the semi-annual groundwater monitoring events at the AP-B and to satisfy the requirements of § 257.90(e).

2.0 SITE DESCRIPTION

The Site is located within Section 35, Township 5 South, Range 6 West, Sections 37, 10, 15, East half of Section 9, Southwest ¼ of Section 2, Northwest ¼ and south half of Section 11, and the north half and northwest ¼ of the southwest ¼ of Section 14, all of Township 6 South, Range 6 West. The Site is situated immediately northwest of the intersection of Mississippi State Highways 63 and 613, between the Pascagoula River to the west and Highway 63 to the east. The site address is 13201 Highway 63 N, Escatawpa, Mississippi 39562.

AP-B is located to the north of the main plant. **Figure 1, Site Location Map**, depicts the location of Plant Daniel relative to site features and the surrounding area.

2.1 Regional Geology & Hydrogeologic Setting

Jackson County lies in the Pascagoula River Drainage Basin in the Gulf Coastal Plain physiographic province. Topographically, the province is gently rolling to flat with local salt marshes. Rock outcrops are sedimentary in origin and range in age from late Miocene to Recent (Gandl, 1982). A dominant regional structural feature which affects the sediments of Miocene and younger age is the Gulf Coast geosyncline. The sediments dip toward the Gulf of Mexico. Where formations are near the surface, dips are from 15 to 35 feet/mile. Further from the outcrop, dips increase dramatically with depth. Fresh-water aquifers in the Pascagoula area are sand or sand and gravel beds of Miocene age or younger, generally less than 1,000 feet below the surface.

The surface geology of soils near Plant Daniel results from present-day weathering processes dictated by southern Mississippi's semi-tropical climate and the parent geologic materials. The soil profile formed from a wide variety of sediments of recent age, and from Pleistocene terrace deposits. The soils therefore contain sand, silt, clay, gravel and organics.

Studies prepared by SCS, establish five geologic units underlying the immediate Plant Daniel property:

- Unit 1 is a sandy clay aquitard. The unit is discontinuous across the Plant Daniel site and extends from the surface to approximately 32 feet deep in some areas.
- Unit 2 is a sand aquifer, which extends to approximately 70 feet and is considered the uppermost aquifer for groundwater monitoring purposes.
- Unit 3 is a clay aquitard underlying Unit 2 with thicknesses ranging from 2.5 to 9.5 feet at Plant Daniel.
- Unit 4 is a sand and gravel aquifer with a thickness of 34 feet or greater.
- Unit 5 is a clay aquitard.

2.2 Uppermost Aquifer

Two aquifers supply water to the Pascagoula area. These are the Pliocene-age Citronelle and the Miocene Aquifer System, which includes the Graham Ferry Aquifer. Plant Daniel is located in the Citronelle outcrop area.

The Citronelle Aquifers are the shallowest aquifers in the Pascagoula area. Although principally a sand and gravel formation, the Citronelle is characterized by occasional lenses and layers of clay which may cause semi-artesian conditions. Sediments become coarse near the irregular contact with the underlying Pascagoula or Graham Ferry Formation. Also, the Citronelle and overlying coastal deposits are generally considered one hydrogeologic unit. The Citronelle is primarily a water table aquifer with a saturated thickness of about 45 feet. Recharge is primarily by rainfall which moves vertically and down dip to recharge underlying aquifers and to sustain local streams (Wasson, 1978).

For groundwater monitoring purposes, the Unit 2 sand is the uppermost aquifer screened by site monitoring wells.

3.0 GROUNDWATER MONITORING SYSTEM AND ACTIVITY

Pursuant to § 257.91, MPC installed a groundwater monitoring system to monitor groundwater within the uppermost aquifer (Unit 2). The Professional Engineer (PE)-certified groundwater monitoring system for AP-B is designed to monitor groundwater passing the waste boundary of the CCR unit within the uppermost aquifer. As required by § 257.90(e), the following also describes monitoring-related activities performed during the preceding year.

3.1 Groundwater Monitoring System

The groundwater monitoring network is comprised of 6 monitoring wells as presented on **Figure 2, Monitoring Well Location Map. Table 1, Monitoring Well Network Summary**, summarizes the monitoring well construction details and design purpose for the AP-B.

Monitoring well locations BAW-1 and BAW-2A serve as upgradient locations for the Ash Pond. Upgradient wells are screened within the same uppermost aquifer as downgradient locations and are representative of background groundwater quality at the site. Monitoring well locations BAW-3 through BAW-7 are utilized as downgradient locations for AP-B. Downgradient locations were determined by water level monitoring and potentiometric surface maps constructed for the site.

3.2 Monitoring Well Installation and Maintenance

There was no change to the groundwater monitoring system in 2022 aside from one monitoring well modification at BAW-7; the network remained the same as in the previous reporting year. Monitoring well-related activities were limited to visual inspection of well conditions prior to sampling, recording the site conditions, and performing exterior maintenance to perform sampling under safe and clean conditions.

Due to closure-by-removal activities at AP-B, raising the well riser, well pad, and protective casing were required at monitoring well BAW-7. As part of the closure-by-removal efforts at AP-B, the existing grade in the vicinity of BAW-7 was raised approximately 5 feet from elevation 32 feet above mean sea level (ft MSL) to 37 ft MSL to accommodate for a constructed perimeter dike road. On June 2, 2022, the existing concrete pad, bollards, and protective casing at BAW-7 were carefully removed, and a 4-inch diameter steel drill casing was set around the polyvinyl chloride (PVC) riser approximately 4 feet below grade to approximately 6 feet above grade. The steel casing remained in place to protect the monitoring well as the surrounding grade was brought up during the closure process.

On January 20, 2023, modifications to BAW-7 were complete. A grout seal was installed around the PVC riser to the new ground surface as the steel drill casing was removed. The well was completed as a flush-mounted well with a 3-feet by 3-feet concrete pad and 12-inch well vault. Survey of the new ground surface

and top of casing is scheduled.

3.3 Assessment Monitoring

The AP-B began 2022 in assessment monitoring pursuant to 40 CFR § 257.95(a). The first semi-annual assessment monitoring event was completed by sampling wells for Appendix III and Appendix IV parameters in March 2022, and the semi-annual monitoring event was repeated in October 2022 pursuant to 40 CFR § 257.95(f). Analytical data from the semi-annual monitoring events are included as **Appendix A, Laboratory Analytical and Field Sampling Reports**, in accordance with the requirements of § 257.90(e)(3).

4.0 SAMPLE METHODOLOGY & ANALYSIS

The following describes the methods used to complete groundwater monitoring at AP-B.

4.1 Groundwater Flow Direction, Gradient, and Velocity

Prior to each sampling event, groundwater levels were measured and recorded to the nearest 0.01 foot within a 24-hour period. Groundwater levels recorded during the monitoring events are summarized in **Table 2, Groundwater Elevations Summary - 2022**. Groundwater levels and top of casing elevations were used to calculate groundwater elevation.

Groundwater elevations and groundwater elevation contour maps presented here do not represent typical natural groundwater flow conditions. As part of AP-B closure a dewatering system was installed and in operation during the 2022 monitoring period. The dewatering system significantly lowered the groundwater level at AP-B to facilitate the excavation of CCR material and pond liner. In all, 22 extraction wells were installed around the perimeter of Ash Pond B. Extraction wells have been active since April 2021 and are planned to be shut off in 2023 upon completion of closure activities.

As shown in **Figure 3, Groundwater Elevations Map – March 14, 2022**, the average groundwater elevation at the pond was approximately -15 to 16 ft MSL during the March 2022 sampling event. During the October 2022 sampling event, the average groundwater elevation at AP-B was approximately -14 to -15 ft MSL, as shown on **Figure 4, Groundwater Elevations Map – October 3, 2022**. During both sampling events, groundwater flow conditions were heavily influenced by the extraction system and varied across AP-B. As described in Section 3.2, the surface completion at BAW-7 was modified beginning in June 2022 and was not completed until January 2023 when closure activities in the vicinity of the well were complete. Therefore, while depth to water was measured at BAW-7 during the October 2022 sampling event, groundwater elevations were not recorded. Additionally, water levels in BAW-2A were below the top of the pump during both gauging events; therefore, depth to water was not recorded.

Groundwater flow velocities at the site were calculated based on hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon. Based on slug test data collected from AP-B wells, the average hydraulic conductivity at the site is 25 feet per day. The hydraulic gradient was calculated between well pairs shown on **Table 3, Groundwater Flow Velocity Calculations - 2022**. An effective porosity of 0.2 was used based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (U.S. USEPA, 1996).

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

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

Where:

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

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

i = Horizontal hydraulic gradient

n_e = Effective porosity

Using this equation, groundwater flow velocities are calculated for various areas of the site and are tabulated on **Table 3**.

Groundwater monitoring wells BAW-1 and BAW-5 were used as points for calculating Flow Path A and BAW-3 and BAW-5 were used to calculate Flow Path B.

During the 2022 monitoring period, the groundwater extraction system was active and produced variable groundwater flow conditions that were not indicative of typical groundwater flow at the AP-B. The horizontal hydraulic gradients range from 0.0003 feet per foot (ft/ft) to 0.0023 ft/ft. As presented on **Table 3**, groundwater flow velocity at the site ranges from approximately 0.04 feet per day (ft/day) (or approximately 13.76 feet per year (ft/yr)) to 0.29 ft/day (or approximately 106.36 feet per year) across AP-B. These calculated groundwater flow velocities are not consistent with historical calculations and with expected velocities because of the influence of the groundwater extraction system. However, the groundwater extraction system is scheduled to be decommissioned in early 2023, and groundwater conditions are expected to return to pre-system conditions.

4.2 Groundwater Sampling

Groundwater samples were collected from monitoring wells using low-flow sampling procedures in accordance with § 257.93(a). All monitoring wells at the Site are equipped with a dedicated pump. 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 (DO)) were measured to determine stabilization. Groundwater samples were collected when the following stabilization criteria were met:

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

During purging and sampling a SmarTroll instrument was used to monitor and record field parameters. Once stabilization was achieved, samples were collected and submitted to the laboratory following standard chain-of-custody (COC) protocol.

During the both the first and second semi-annual sampling events, water levels at BAW-2A were below the top of the pump and water level information was not recorded. During the first semi-annual event, there was enough water in the well for a sample to be collected using low-flow sampling procedures described above. During the second semi-annual event, BAW-2A was dry and a sample was not collected.

4.3 Laboratory Analysis

Laboratory analyses was performed by Eurofins Environmental Testing TestAmerica, Inc. (TAL) of Pittsburgh, Pennsylvania and St. Louis, Missouri. TAL is accredited by National Environmental Laboratory Accreditation Program (NELAP). TestAmerica maintains a NELAP certification for all parameters analyzed for this project. Groundwater analytical data and chain-of-custody records for the monitoring events are presented in **Appendix A**.

4.4 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control samples (QA/QC) 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**. When values are followed by a "J" flag, this indicates that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit (RL). The estimated value is positively identified but is below lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions.

Analytical precision is measured through the calculation of the relative percent difference (RPD) of two data sets generated from a similar source. Here, a comparison of results between samples and field duplicate samples are used as measure of laboratory precision. For groundwater analytical data, quality control procedures include calculating the relative percent difference (where field duplicates are collected, the RPD) between the sample and duplicate sample duplicate concentrations. This is calculated as:

$$RPD = \frac{Conc1 - Conc2}{(Conc1 + Conc2) / 2}$$

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

RPD is calculated for all detected concentrations above the laboratory RL. Where the RPD is below 20%, the difference is considered acceptable, and no further action is needed. Where an RPD is greater than 20%, further evaluation is required to attempt to determine the cause of the difference and potentially result in qualified data. **Table 4, Relative Percent Difference Calculations**, provides the relative percent differences for sample and sample duplicates during 2022 sampling events.

RPD was below 20% for constituents analyzed during the first semi-annual sampling event of 2022 with the exception of fluoride. Fluoride was detected at an estimated (J-flagged) concentration of 0.0673 mg/L in the sample collected from PZ-8 and at an estimated (J-flagged) concentration of 0.0373 mg/L in the field duplicate. These concentrations resulted in an RPD of 57.4%. Validation procedures require further data qualification if the difference between the two concentrations (0.03 mg/L) exceeds the RL (0.1 mg/L) if either result is less than five times the RL. In this case, both concentrations are estimated (J-flagged) and therefore the difference does not exceed the RL. Further data qualification is not required.

RPD was below 20% for constituents analyzed during the second semi-annual sampling event of 2022 with the exception of boron. Boron was detected at an estimated (J-flagged) concentration of 0.0714 mg/L in the sample collected from BAW-7 and at a concentration of 0.132 in the field duplicate. These concentrations resulted in an RPD of 59.6%. Validation procedures require further data qualification if the difference between the two concentrations (0.0606 mg/L) exceeds the RL (0.08 mg/L) if either result is less than five times the RL. In this case, one concentration is estimated (J-flagged) and the difference does not exceed the RL. Further data qualification is not required.

Several constituents were detected in the field blank collected on October 6, 2022. Barium was detected at an estimated (J-flagged) concentration of 0.00634 mg/L, boron was detected at 0.107 mg/L, and calcium was detected at an estimated (J-flagged) concentration of 0.128 mg/L. Validation procedures require further data qualification for samples collected on the same day as the field blank if the sample result is less than five times the blank result. In this case, none of the sample results collected on October 6, 2022 resulted in concentrations less than five times the blank results. Further data qualification is not required.

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 40 CFR § 257.93 and following the appropriate PE-certified method. The statistical method used at the site was developed by Groundwater Stats Consulting, LLC. (GSC), in accordance with 40 CFR § 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). Results are included in **Appendix B, Statistical Data Evaluation**.

5.1 Statistical Methodology and Test

The Sanitas Groundwater statistical software is 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 EPA regulations. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the EPA Unified Guidance (2009).

5.1.1 Appendix III Evaluation

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits combined with a 1-of-2 verification resample plan for each of the Appendix III parameters. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter. When an initial (or apparent) statistically significant increase or questionable result occurs, a second sample may be collected to verify the initial result or determine if the result was an outlier. If the second sample exceeds its respective background statistical limit, a statistically significant increase (SSI) is identified. If the second sample is below its respective background limit there is no SSI. A summary table of the statistical limits accompanies the prediction limits in **Appendix B**.

5.1.2 Appendix IV Evaluation

When in assessment monitoring, Appendix IV constituents are sampled semi-annually, and concentrations are compared to GWPS. 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 tolerance limit (i.e. background) calculated using the pool of all available upgradient well data (see Chapter 7 of the Unified Guidance), or an applicable groundwater protection standard such as the Maximum Contaminant Level (MCL). 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. Upper Tolerance Limits (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 on the number of background samples. The UTLs were then used as the Groundwater Protection Standards (GWPS).

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

- (1) The MCL established under § 141.62 and 141.66 of this title.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 milligrams per liter (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-identified GWPS.

Following the above requirements, GWPS have been established for statistical comparison of Appendix IV constituents.

5.2 Statistical Analysis Results

Analytical data from the 2022 semi-annual monitoring events in March and October were statistically analyzed in accordance with the PE-certified Statistical Analysis Plan (October 2017) and Statistical Background Updates performed by GSC (December 2019). Appendix III statistical analysis was performed to determine if constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

5.2.1 Appendix III Constituents

A review of the Sanitas results presented in **Appendix B** identified the following Appendix III SSIs during the first semi-annual monitoring event:

- BAW-3: Sulfate
- BAW-4: Calcium, Chloride, pH, Sulfate, Total Dissolved Solids (TDS)
- BAW-5: Boron, Calcium, Fluoride, pH, Sulfate, and TDS
- BAW-7: Boron, Sulfate

During the second semi-annual monitoring event, the following SSIs were identified:

- BAW-3: pH, Sulfate

- BAW-4: Calcium, and pH
- BAW-5: Boron, Calcium, pH, Sulfate and TDS
- BAW-7: Boron, Calcium, Sulfate, and TDS

Since the site is performing assessment monitoring, no further action is required regarding these SSIs.

5.2.2 Appendix IV Constituents

Table 5, Summary of Background Levels and Groundwater Protection Standards, summarizes the background limit established at each monitoring well and the GWPS used for statistical comparison. To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard.

Using GWPS established according to 40 CFR §257.95(h), statistical analysis of Appendix IV data identified the following Statistically Significant Level (SSL) of a GWPS during the first and second semi-annual monitoring events at the listed well:

- BAW-5: Lithium

In accordance with §257.95(g), a notification identifying the SSLs for lithium was placed in the facility's Operating Record on November 14, 2018. As discussed below, an alternate source demonstration (ASD) was previously prepared for this SSL and no further action is required.

6.0 ALTERNATE SOURCE DEMONSTRATION

In accordance with 40 CFR § 257.95(g)(3)(ii), an ASD was prepared for lithium at AP-B. The ASD was completed by July 12, 2019 and submitted in the *2019 Annual Groundwater Monitoring and Corrective Action Report*. Therefore, pursuant to §257.95(g)(3)(ii), an assessment of corrective measures is not required, and AP-B will remain in assessment monitoring.

7.0 MONITORING PROGRAM STATUS

In accordance with § 257.94(e) MPC implemented assessment monitoring in January 2018. SSIs of Appendix III and SSLs of Appendix IV parameters were identified at AP-B during sampling events conducted in 2021. An ASD was completed for the Appendix IV constituent exceeding the GWPS on July 12, 2019.

Removal of CCR material at AP-B was completed in September 2021 and the site was certified clean closed in early 2022. Construction activities continued as AP-B was repurposed into three lined settlement ponds for plant process water, and construction is scheduled to be completed in early 2023. MPC will continue groundwater monitoring until completion of closure in accordance with CCR rule 257.102(c).

Therefore, in accordance with § 257.95(g)(3)(ii), MPC will continue assessment monitoring.

8.0 CONCLUSIONS & FUTURE ACTIONS

Semi-annual assessment monitoring and associated reporting for Plant Daniel AP-B is performed in accordance with the monitoring requirements § 257.90 through § 257.95. The certified compliance monitoring well network was resampled on a semi-annual basis and were analyzed for Appendix III and IV parameters. Statistical evaluations of the March and October 2022 assessment monitoring data identified lithium SSLs of Appendix IV constituents above the GWPS. An ASD was prepared to address lithium GWPS exceedances at compliance well BAW-5. The ASD was completed by July 12, 2019 in accordance with § 257.95(g)(3)(ii) and submitted in the *2019 Annual Groundwater Monitoring and Corrective Action Report*. Therefore, in accordance with § 257.95(d), MPC will continue assessment monitoring.

The following future actions will be taken or are recommended for the Site:

- Continue semi-annual assessment monitoring in 2023.
- Submit the 2023 Annual Groundwater Monitoring and Corrective Report by January 31, 2024.

9.0 REFERENCES

- Gandl, L.A. “Characterization of Aquifers Designated as Potential Drinking Water Sources in Mississippi,” Water Resources Investigation Open-File Report 81-550, Mississippi Department of Natural Resources, Bureau of Pollution Control. 1982. 90 pp.
- USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance. Office of Resource Conservation and Recovery – Program Implementation and Information Division. March.
- USEPA. 2015. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. *40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule.* [EPA-HQ-RCRA-2009-0640; FRL-9919-44-OSWER]. RIN-2050-AE81. April.
- USEPA. 2011. *Data Validation Standard Operating Procedures.* Science and Ecosystem Support Division. Region IV. Athens, GA. September.
- USEPA. 2017. National Functional Guidelines for Inorganic Superfund Methods Data Review. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January.
- Wasson, B.E., 1978, Availability of additional ground-water supplies in the Pascagoula area, Mississippi: Mississippi Research and Development Center Bulletin, 32 p.

Tables

**Table 1.
Monitoring Well Network Summary**

| Well ID | Purpose | Installation Date | Latitude | Longitude | Total Well Depth (feet) | Top of Casing Elevation (feet MSL) | Ground Elevation (feet MSL) | Top of Screen Elevation (feet MSL) | Bottom of Screen Elevation (feet MSL) |
|----------------|----------------|--------------------------|-----------------|------------------|--------------------------------|--|------------------------------------|---|--|
| BAW-1 | Upgradient | 7/23/2015 | 30.54178 | -88.55594 | 60.72 | 32.24 | 29.22 | -23.18 | -28.18 |
| BAW-2 | Upgradient | 7/23/2015 | 30.53975 | -88.5559 | 64.53 | 42.43 | 39.70 | -11.80 | -21.80 |
| BAW-2A | Upgradient | 3/19/2018 | 30.53969 | -88.5559 | 66.93 | 41.15 | 38.22 | -15.28 | -25.28 |
| BAW-3 | Downgradient | 7/23/2015 | 30.53747 | -88.55603 | 67.62 | 40.62 | 37.60 | -16.70 | -26.70 |
| BAW-4 | Downgradient | 7/23/2015 | 30.5374 | -88.55766 | 69.13 | 37.05 | 34.12 | -21.78 | -31.78 |
| BAW-5 | Downgradient | 7/23/2015 | 30.53773 | -88.55904 | 69.12 | 39.93 | 37.41 | -18.89 | -28.89 |
| BAW-7 | Downgradient | 7/23/2015 | NA | NA | NA | NA | NA | NA | NA |
| PZ-8 | Piezometer | 3/14/2018 | 30.53753 | -88.55888 | 68.29 | 40.05 | 37.26 | -17.74 | -27.74 |
| PZ-9 | Piezometer | 3/15/2018 | 30.53742 | -88.55897 | 62.82 | 39.32 | 36.50 | -13.00 | -23.00 |

Notes:

1. BAW-2 was replaced by BAW-2A due to well damage.
2. Elevations shown are referenced Mean Sea Level (MSL) to NAVD 88 (G12) U.S. Survey Feet.
3. MSL refers to Mean Sea Level.
4. NA - information not available, BAW-7 to be re-surveyed

Table 2.
Groundwater Elevations Summary - 2022

| Well ID | Top of Casing Elevation (feet MSL) | Groundwater Elevations (feet MSL) | |
|---------|---------------------------------------|--------------------------------------|-----------------|
| | | March 14, 2022 | October 3, 2022 |
| BAW-1 | 32.24 | -13.85 | -14.25 |
| BAW-2A | 41.15 | Dry | Dry |
| BAW-3 | 40.62 | -16.61 | -11.17 |
| BAW-4 | 37.05 | -15.97 | -21.21 |
| BAW-5 | 39.93 | -14.38 | -12.54 |
| BAW-7 | 35.05 | -17.36 | NR |
| PZ-8 | 40.05 | -16.47 | -14.15 |
| PZ-9 | 39.32 | -15.08 | -13.14 |

Notes:

1. MSL refers to Mean Sea Level
2. NR - information not recorded, BAW-7 well was modified in June 2022 and groundwater elevation data was not available for October 2022
3. BAW-2A water level was below top of pump during both gauging events

Table 3.
Groundwater Flow Velocity Calculations - 2022

| Flow Path A | | | | | | | | |
|------------------------|---------------------------|---------------------------|-----------------|---------------------------|-------------------------------|--|--|---|
| | BAW-1 | BAW-5 | Distance | Hydraulic Gradient | Hydraulic Conductivity | Assumed Effective Porosity (ne) | Calculated Groundwater Flow Velocity (feet/day) | Calculated Groundwater Flow Velocity (feet/year) |
| | h₁ (ft) | h₂ (ft) | Δl (ft) | Δh/Δl (ft/ft) | K | | | |
| March 14, 2022 | -13.85 | -14.38 | 1764 | 0.0003 | 25.09 | 0.2 | 0.04 | 13.76 |
| October 3, 2022 | -14.25 | -12.54 | 1764 | 0.0010 | 25.09 | 0.2 | 0.12 | 44.39 |

| Flow Path B | | | | | | | | |
|------------------------|---------------------------|---------------------------|-----------------|---------------------------|-------------------------------|--|--|---|
| | BAW-3 | BAW-5 | Distance | Hydraulic Gradient | Hydraulic Conductivity | Assumed Effective Porosity (ne) | Calculated Groundwater Flow Velocity (feet/day) | Calculated Groundwater Flow Velocity (feet/year) |
| | h₁ (ft) | h₂ (ft) | Δl (ft) | Δh/Δl (ft/ft) | K | | | |
| March 14, 2022 | -16.61 | -14.38 | 960 | 0.0023 | 25.09 | 0.2 | 0.29 | 106.36 |
| October 3, 2022 | -11.17 | -12.54 | 960 | 0.0014 | 25.09 | 0.2 | 0.18 | 65.35 |

Notes:

ft=feet

ft/d = feet/day

ft/ft = feet per foot

ft/yr = feet per year

Table 4.
Relative Percent Difference Calculations

| 1st Semi-Annual Monitoring Event | | | | |
|---|--------------|--|---------------|--|
| Parameter | Units | Monitoring Point Identification | | Relative Percent Difference (RPD %) |
| | | PZ-8 | DUP-01 | |
| Chloride | mg/L | 9.88 | 8.19 | 18.7 |
| Fluoride | mg/L | 0.0673 | 0.0373 | 57.4 |
| Sulfate | mg/L | 51.4 | 43.5 | 16.6 |
| Arsenic | mg/L | 0.0130 | 0.0126 | 3.1 |
| Barium | mg/L | 0.0553 | 0.0566 | 2.3 |
| Boron | mg/L | 0.852 | 0.862 | 1.2 |
| Calcium | mg/L | 25.5 | 26.1 | 2.3 |
| Chromium | mg/L | 0.00171 | 0.00153 | 11.1 |
| Cobalt | mg/L | 0.00191 | 0.00183 | 4.3 |
| Lithium | mg/L | 0.0172 | 0.0183 | 6.2 |
| Molybdenum | mg/L | 0.00572 | 0.00512 | 11.1 |
| TDS | mg/L | 203 | 180 | 12.0 |

| 2nd Semi-Annual Monitoring Event | | | | |
|---|--------------|--|---------------|--|
| Parameter | Units | Monitoring Point Identification | | Relative Percent Difference (RPD %) |
| | | BAW-4 | DUP-03 | |
| Chloride | mg/L | 8.84 | 8.28 | 6.5 |
| Fluoride | mg/L | 0.0322 | 0.0284 | 12.5 |
| Sulfate | mg/L | 4.12 | 3.78 | 8.6 |
| Arsenic | mg/L | 0.00467 | 0.00472 | 1.1 |
| Barium | mg/L | 0.0248 | 0.0255 | 2.8 |
| Boron | mg/L | 0.0714 | 0.132 | 59.6 |
| Calcium | mg/L | 5.81 | 5.64 | 3.0 |
| Cobalt | mg/L | 0.00121 | 0.00120 | 0.8 |
| Lithium | mg/L | 0.00676 | 0.00757 | 11.3 |
| Molybdenum | mg/L | 0.000939 | 0.00108 | 14.0 |
| TDS | mg/L | 52 | 60.0 | 14.3 |
| Parameter | Units | Monitoring Point Identification | | Relative Percent Difference (RPD %) |
| | | BAW-7 | DUP-04 | |
| Chloride | mg/L | 12.7 | 12.0 | 5.7 |
| Sulfate | mg/L | 61.4 | 57.4 | 6.7 |
| Barium | mg/L | 0.0937 | 0.103 | 9.5 |
| Boron | mg/L | 1.82 | 2.01 | 9.9 |
| Calcium | mg/L | 4.84 | 5.19 | 7.0 |
| Cobalt | mg/L | 0.00548 | 0.00566 | 3.2 |
| Lithium | mg/L | 0.0123 | 0.0143 | 15.0 |
| TDS | mg/L | 135 | 134 | 0.7 |

Table 5.
Summary of Background Levels and Groundwater Protection Standards

| Analyte | Units | Background | Rule-Identified GWPS |
|-------------------------|--------------|-------------------|-----------------------------|
| Antimony | mg/L | 0.002 | 0.006 |
| Arsenic | mg/L | 0.001 | 0.01 |
| Barium | mg/L | 0.051 | 2 |
| Beryllium | mg/L | 0.001 | 0.004 |
| Cadmium | mg/L | 0.001 | 0.005 |
| Chromium | mg/L | 0.0029 | 0.1 |
| Cobalt | mg/L | 0.002 | 0.006 |
| Combined Radium-226/228 | pCi/L | 2.5 | 5 |
| Fluoride | mg/L | 0.1 | 4 |
| Lead | mg/L | 0.001 | 0.015 |
| Lithium | mg/L | 0.0051 | 0.04 |
| Mercury | mg/L | 0.0002 | 0.002 |
| Molybdenum | mg/L | 0.005 | 0.1 |
| Selenium | mg/L | 0.005 | 0.05 |
| Thallium | mg/L | 0.001 | 0.002 |

Note:

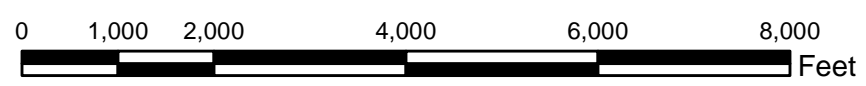
1. Where 2 numbers are present, they denote the different background levels and background-derived GWPS for each of the 2 semi-annual monitoring events in the order that they were determined.
2. If background is less than the rule-identified GWPS; therefore, the rule-identified GWPS were used for statistical analysis.

Figures



Legend

- North Ash Management Unit (NAMU) Boundary
- Gypsum Storage Area (GSA) Boundary
- Ash Pond B Boundary
- Property Boundary (Approximate)






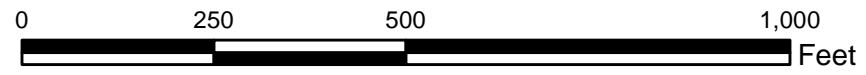
| | |
|------------|------------|
| SCALE | 1:24000 |
| DATE | 12/28/2020 |
| DRAWN BY | KAR |
| CHECKED BY | LMP |

| | |
|--|-----------------|
| DRAWING TITLE | |
| SITE LOCATION MAP PLANT DANIEL ASH POND B | |
| FIGURE NO | FIGURE 1 |
| Southern Company | |




Legend

-  Monitoring Well Location
-  Ash Pond B Boundary
-  Property Boundary (Approximate)



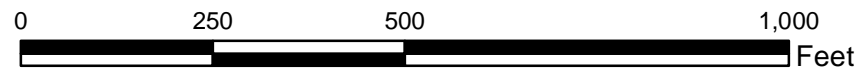
| | |
|------------|------------|
| SCALE | 1:3000 |
| DATE | 12/28/2020 |
| DRAWN BY | KAR |
| CHECKED BY | LMP |

| | |
|--|---|
| DRAWING TITLE | |
| WELL LOCATION MAP PLANT DANIEL ASH POND B | |
| FIGURE NO |  |
| FIGURE 2 | |



Legend

- ⊕ Monitoring Well Location
 - ▲ Dewatering Well
 - Ash Pond B Boundary
 - Property Boundary (Approximate)
- | | |
|------------------------|--|
| BAW-1 -13.85 | Well Name Groundwater Elevation (ft NAVD88) |
|------------------------|--|







Notes:
 1. ft NAVD88 indicates feet relative to the North American Vertical Datum of 1988.
 2. DRY indicates water level was below top of instrumentation/pump.

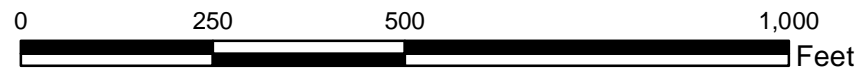
| | |
|------------|-----------|
| SCALE | 1:3000 |
| DATE | 1/18/2023 |
| DRAWN BY | KAR |
| CHECKED BY | RFS |

| | |
|---|-----------------|
| DRAWING TITLE | |
| GROUNDWATER ELEVATIONS MAP MARCH 14, 2022 PLANT DANIEL ASH POND B | |
| FIGURE NO | FIGURE 3 |
| Southern Company | |




Legend

-  Monitoring Well Location
 -  Dewatering Well
 -  Ash Pond B Boundary
 -  Property Boundary (Approximate)
- | | |
|--------------|-----------------------------------|
| BAW-1 | Well Name |
| -14.25 | Groundwater Elevation (ft NAVD88) |



- Notes:
1. ft NAVD88 indicates feet relative to the North American Vertical Datum of 1988.
 2. DRY indicates water level was below top of instrumentation/pump.
 3. NR indicates water elevation was not recorded due to surface modification.

| | | | |
|------------|-----------|---|-----------------|
| SCALE | 1:3000 | DRAWING TITLE | |
| DATE | 1/20/2023 | GROUNDWATER ELEVATIONS MAP OCTOBER 3, 2022 PLANT DANIEL ASH POND B | |
| DRAWN BY | KAR | FIGURE NO | FIGURE 4 |
| CHECKED BY | RFS |  | |

Appendix A

1st
Semi-Annual
Monitoring Event

ANALYTICAL REPORT

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

Laboratory Job ID: 180-135319-1

Client Project/Site: Plant Daniel Ash Pond B

For:

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

Attn: Robert Singleton



Authorized for release by:
4/6/2022 6:37:57 PM

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

Shali.Brown@et.eurofinsus.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 Daniel Ash Pond B

Job ID: 180-135319-1

Job ID: 180-135319-1

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-135319-1**

Comments

No additional comments.

Receipt

The samples were received on 3/17/2022 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.0° C and 4.1° C.

GC Semi VOA

Methods 300.0, 9056A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-394098 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 9056A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-394098 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

No analytical or quality issues were noted, other than those described 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 Daniel Ash Pond B

Job ID: 180-135319-1

Qualifiers

HPLC/IC

| 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. |

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: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Laboratory: Eurofins 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 | 06-27-22 |
| California | State | 2891 | 04-30-22 |
| Connecticut | State | PH-0688 | 09-30-22 |
| Florida | NELAP | E871008 | 06-30-22 |
| Georgia | State | PA 02-00416 | 04-30-22 |
| Illinois | NELAP | 004375 | 06-30-22 |
| Kansas | NELAP | E-10350 | 03-31-22 * |
| Kentucky (UST) | State | 162013 | 04-30-22 |
| Kentucky (WW) | State | KY98043 | 12-31-22 |
| Louisiana | NELAP | 04041 | 06-30-22 |
| Maine | State | PA00164 | 03-06-24 |
| Minnesota | NELAP | 042-999-482 | 12-31-22 |
| Nevada | State | PA00164 | 08-31-22 |
| New Hampshire | NELAP | 2030 | 04-05-22 |
| New Jersey | NELAP | PA005 | 06-30-23 |
| New York | NELAP | 11182 | 04-02-22 * |
| North Carolina (WW/SW) | State | 434 | 12-31-22 |
| North Dakota | State | R-227 | 04-30-22 |
| 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 | 06-30-22 |
| Texas | NELAP | T104704528 | 03-31-23 |
| USDA | Federal | P-Soil-01 | 06-26-22 |
| USDA | US Federal Programs | P330-16-00211 | 06-26-22 |
| Utah | NELAP | PA001462019-8 | 05-31-22 |
| Virginia | NELAP | 10043 | 09-15-22 |
| West Virginia DEP | State | 142 | 01-31-23 |
| Wisconsin | State | 998027800 | 08-31-22 |

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



Sample Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 180-135319-1 | BAW-1 | Water | 03/16/22 08:53 | 03/17/22 09:15 |
| 180-135319-2 | BAW-2A | Water | 03/16/22 09:48 | 03/17/22 09:15 |
| 180-135319-3 | BAW-3 | Water | 03/16/22 10:52 | 03/17/22 09:15 |
| 180-135319-4 | BAW-4 | Water | 03/16/22 12:58 | 03/17/22 09:15 |
| 180-135319-5 | BAW-5 | Water | 03/16/22 11:59 | 03/17/22 09:15 |
| 180-135319-6 | BAW-7 | Water | 03/16/22 07:52 | 03/17/22 09:15 |
| 180-135319-7 | BAW-8 | Water | 03/16/22 12:35 | 03/17/22 09:15 |
| 180-135319-8 | BAW-9 | Water | 03/16/22 13:25 | 03/17/22 09:15 |
| 180-135319-9 | DUP-01 | Water | 03/16/22 11:35 | 03/17/22 09:15 |
| 180-135319-10 | EB-3 | Water | 03/16/22 11:15 | 03/17/22 09:15 |
| 180-135319-11 | FB-3 | Water | 03/16/22 11:00 | 03/17/22 09:15 |

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

Method Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

| Method | Method Description | Protocol | Laboratory |
|-----------|--|----------|------------|
| EPA 9056A | Anions, Ion Chromatography | SW846 | 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:

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

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Client Sample ID: BAW-1
Date Collected: 03/16/22 08:53
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-1
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 | EPA 9056A | | 1 | | | 394098 | 04/04/22 19:19 | JRB | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 392733 | 03/23/22 10:51 | RGM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 392994 | 03/24/22 13:14 | RSK | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 393254 | 03/28/22 08:58 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 393481 | 03/29/22 13:15 | RJR | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 392458 | 03/21/22 15:16 | JCR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-2A
Date Collected: 03/16/22 09:48
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-2
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 | EPA 9056A | | 1 | | | 394098 | 04/04/22 21:49 | JRB | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 392733 | 03/23/22 10:51 | RGM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 392994 | 03/24/22 13:16 | RSK | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 393254 | 03/28/22 08:58 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 393481 | 03/29/22 13:21 | RJR | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 392458 | 03/21/22 15:16 | JCR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-3
Date Collected: 03/16/22 10:52
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-3
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 | EPA 9056A | | 1 | | | 394098 | 04/04/22 20:27 | JRB | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 392733 | 03/23/22 10:51 | RGM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 392994 | 03/24/22 13:19 | RSK | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 393254 | 03/28/22 08:58 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 393481 | 03/29/22 13:22 | RJR | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 392458 | 03/21/22 15:16 | JCR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Client Sample ID: BAW-4

Lab Sample ID: 180-135319-4

Date Collected: 03/16/22 12:58

Matrix: Water

Date Received: 03/17/22 09:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 394098 | 04/04/22 20:40 | JRB | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 392733 | 03/23/22 10:51 | RGM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 392994 | 03/24/22 13:22 | RSK | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 393254 | 03/28/22 08:58 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 393481 | 03/29/22 13:23 | RJR | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 392458 | 03/21/22 15:16 | JCR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-5

Lab Sample ID: 180-135319-5

Date Collected: 03/16/22 11:59

Matrix: Water

Date Received: 03/17/22 09:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 394098 | 04/04/22 20:54 | JRB | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 392733 | 03/23/22 10:51 | RGM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 392994 | 03/24/22 13:24 | RSK | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 393254 | 03/28/22 08:58 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 393481 | 03/29/22 13:24 | RJR | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 392458 | 03/21/22 15:16 | JCR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-7

Lab Sample ID: 180-135319-6

Date Collected: 03/16/22 07:52

Matrix: Water

Date Received: 03/17/22 09:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 394098 | 04/04/22 22:02 | JRB | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 392733 | 03/23/22 10:51 | RGM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 392994 | 03/24/22 13:27 | RSK | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 393254 | 03/28/22 08:58 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 393481 | 03/29/22 13:25 | RJR | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 392458 | 03/21/22 15:16 | JCR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Client Sample ID: BAW-8

Lab Sample ID: 180-135319-7

Date Collected: 03/16/22 12:35

Matrix: Water

Date Received: 03/17/22 09:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 394098 | 04/04/22 21:35 | JRB | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 392733 | 03/23/22 10:51 | RGM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 392994 | 03/24/22 13:29 | RSK | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 393254 | 03/28/22 08:58 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 393481 | 03/29/22 13:26 | RJR | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 392459 | 03/21/22 15:17 | JCR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-9

Lab Sample ID: 180-135319-8

Date Collected: 03/16/22 13:25

Matrix: Water

Date Received: 03/17/22 09:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 393986 | 04/02/22 22:58 | JRB | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 392733 | 03/23/22 10:51 | RGM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 392994 | 03/24/22 13:32 | RSK | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 393254 | 03/28/22 08:58 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 393481 | 03/29/22 13:27 | RJR | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 392459 | 03/21/22 15:17 | JCR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: DUP-01

Lab Sample ID: 180-135319-9

Date Collected: 03/16/22 11:35

Matrix: Water

Date Received: 03/17/22 09:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 393986 | 04/02/22 23:13 | JRB | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 392733 | 03/23/22 10:51 | RGM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 392994 | 03/24/22 13:35 | RSK | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 393254 | 03/28/22 08:58 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 393481 | 03/29/22 13:28 | RJR | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 392459 | 03/21/22 15:17 | JCR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Client Sample ID: EB-3

Lab Sample ID: 180-135319-10

Date Collected: 03/16/22 11:15

Matrix: Water

Date Received: 03/17/22 09:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 393986 | 04/02/22 23:29 | JRB | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 392733 | 03/23/22 10:51 | RGM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 392994 | 03/24/22 13:42 | RSK | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 393254 | 03/28/22 08:58 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 393481 | 03/29/22 13:29 | RJR | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 392459 | 03/21/22 15:17 | JCR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: FB-3

Lab Sample ID: 180-135319-11

Date Collected: 03/16/22 11:00

Matrix: Water

Date Received: 03/17/22 09:15

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 394098 | 04/04/22 22:43 | JRB | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 392733 | 03/23/22 10:51 | RGM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 392994 | 03/24/22 13:45 | RSK | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 393254 | 03/28/22 08:58 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 393481 | 03/29/22 13:30 | RJR | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 392459 | 03/21/22 15:17 | JCR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

RGM = Rebecca Manns

RJR = Ron Rosenbaum

Batch Type: Analysis

JCR = Jessica Rodgers

JRB = James Burzio

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Client Sample ID: BAW-1

Lab Sample ID: 180-135319-1

Date Collected: 03/16/22 08:53

Matrix: Water

Date Received: 03/17/22 09:15

Method: EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-------------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 7.85 | | 1.00 | 0.713 | mg/L | | | 04/04/22 19:19 | 1 |
| Fluoride | <0.0260 | F1 | 0.100 | 0.0260 | mg/L | | | 04/04/22 19:19 | 1 |
| Sulfate | 3.60 | F1 B | 1.00 | 0.756 | mg/L | | | 04/04/22 19:19 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |
| Barium | 0.0500 | | 0.0100 | 0.00314 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |
| Boron | <0.0601 | | 0.0800 | 0.0601 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |
| Calcium | 1.32 | | 0.500 | 0.127 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |
| Cobalt | 0.00177 | | 0.000500 | 0.000261 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |
| Lithium | 0.00171 | J | 0.00500 | 0.000831 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 03/23/22 10:51 | 03/24/22 13:14 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 03/28/22 08:58 | 03/29/22 13:15 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 30.0 | | 10.0 | 10.0 | mg/L | | | 03/21/22 15:16 | 1 |

Client Sample ID: BAW-2A

Lab Sample ID: 180-135319-2

Date Collected: 03/16/22 09:48

Matrix: Water

Date Received: 03/17/22 09:15

Method: EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 11.5 | | 1.00 | 0.713 | mg/L | | | 04/04/22 21:49 | 1 |
| Fluoride | <0.0260 | | 0.100 | 0.0260 | mg/L | | | 04/04/22 21:49 | 1 |
| Sulfate | 5.37 | | 1.00 | 0.756 | mg/L | | | 04/04/22 21:49 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |
| Barium | 0.0314 | | 0.0100 | 0.00314 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |
| Boron | 0.0717 | J | 0.0800 | 0.0601 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |
| Calcium | 0.539 | | 0.500 | 0.127 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |
| Cobalt | 0.000658 | | 0.000500 | 0.000261 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |

Eurofins Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Client Sample ID: BAW-2A

Lab Sample ID: 180-135319-2

Date Collected: 03/16/22 09:48

Matrix: Water

Date Received: 03/17/22 09:15

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Lithium | 0.00165 | J | 0.00500 | 0.000831 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 03/23/22 10:51 | 03/24/22 13:16 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 03/28/22 08:58 | 03/29/22 13:21 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 26.0 | | 10.0 | 10.0 | mg/L | | | 03/21/22 15:16 | 1 |

Client Sample ID: BAW-3

Lab Sample ID: 180-135319-3

Date Collected: 03/16/22 10:52

Matrix: Water

Date Received: 03/17/22 09:15

Method: EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 7.94 | | 1.00 | 0.713 | mg/L | | | 04/04/22 20:27 | 1 |
| Fluoride | 0.0307 | J | 0.100 | 0.0260 | mg/L | | | 04/04/22 20:27 | 1 |
| Sulfate | 6.85 | | 1.00 | 0.756 | mg/L | | | 04/04/22 20:27 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |
| Barium | 0.0370 | | 0.0100 | 0.00314 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |
| Boron | <0.0601 | | 0.0800 | 0.0601 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |
| Cadmium | 0.000252 | J | 0.00100 | 0.000217 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |
| Calcium | 0.780 | | 0.500 | 0.127 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |
| Cobalt | 0.00289 | | 0.000500 | 0.000261 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |
| Lithium | 0.00380 | J | 0.00500 | 0.000831 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 03/23/22 10:51 | 03/24/22 13:19 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 03/28/22 08:58 | 03/29/22 13:22 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 26.0 | | 10.0 | 10.0 | mg/L | | | 03/21/22 15:16 | 1 |

Eurofins Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Client Sample ID: BAW-4
Date Collected: 03/16/22 12:58
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-4
Matrix: Water

Method: EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 17.9 | | 1.00 | 0.713 | mg/L | | | 04/04/22 20:40 | 1 |
| Fluoride | 0.0462 | J | 0.100 | 0.0260 | mg/L | | | 04/04/22 20:40 | 1 |
| Sulfate | 5.64 | | 1.00 | 0.756 | mg/L | | | 04/04/22 20:40 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |
| Arsenic | 0.00411 | | 0.00100 | 0.000282 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |
| Barium | 0.0326 | | 0.0100 | 0.00314 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |
| Boron | 0.0840 | | 0.0800 | 0.0601 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |
| Calcium | 8.94 | | 0.500 | 0.127 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |
| Cobalt | 0.00182 | | 0.000500 | 0.000261 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |
| Lithium | 0.0112 | | 0.00500 | 0.000831 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |
| Molybdenum | 0.000916 | J | 0.00500 | 0.000610 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 03/23/22 10:51 | 03/24/22 13:22 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 03/28/22 08:58 | 03/29/22 13:23 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 66.0 | | 10.0 | 10.0 | mg/L | | | 03/21/22 15:16 | 1 |

Client Sample ID: BAW-5
Date Collected: 03/16/22 11:59
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-5
Matrix: Water

Method: EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 10.6 | | 1.00 | 0.713 | mg/L | | | 04/04/22 20:54 | 1 |
| Fluoride | 0.176 | | 0.100 | 0.0260 | mg/L | | | 04/04/22 20:54 | 1 |
| Sulfate | 23.1 | | 1.00 | 0.756 | mg/L | | | 04/04/22 20:54 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |
| Arsenic | 0.0101 | | 0.00100 | 0.000282 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |
| Barium | 0.0688 | | 0.0100 | 0.00314 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |
| Boron | 0.695 | | 0.0800 | 0.0601 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |
| Calcium | 23.8 | | 0.500 | 0.127 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |
| Cobalt | 0.000967 | | 0.000500 | 0.000261 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Client Sample ID: BAW-5

Lab Sample ID: 180-135319-5

Date Collected: 03/16/22 11:59

Matrix: Water

Date Received: 03/17/22 09:15

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Lithium | 0.0629 | | 0.00500 | 0.000831 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |
| Molybdenum | 0.00533 | | 0.00500 | 0.000610 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 03/23/22 10:51 | 03/24/22 13:24 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 03/28/22 08:58 | 03/29/22 13:24 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 133 | | 10.0 | 10.0 | mg/L | | | 03/21/22 15:16 | 1 |

Client Sample ID: BAW-7

Lab Sample ID: 180-135319-6

Date Collected: 03/16/22 07:52

Matrix: Water

Date Received: 03/17/22 09:15

Method: EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 13.0 | F1 | 1.00 | 0.713 | mg/L | | | 04/04/22 22:02 | 1 |
| Fluoride | 0.0266 | J F1 | 0.100 | 0.0260 | mg/L | | | 04/04/22 22:02 | 1 |
| Sulfate | 5.93 | F1 | 1.00 | 0.756 | mg/L | | | 04/04/22 22:02 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |
| Barium | 0.0245 | | 0.0100 | 0.00314 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |
| Boron | 0.247 | | 0.0800 | 0.0601 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |
| Calcium | 1.28 | | 0.500 | 0.127 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |
| Cobalt | 0.00141 | | 0.000500 | 0.000261 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |
| Lithium | 0.00437 | J | 0.00500 | 0.000831 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 03/23/22 10:51 | 03/24/22 13:27 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | 0.00120 | | 0.000200 | 0.000130 | mg/L | | 03/28/22 08:58 | 03/29/22 13:25 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 37.0 | | 10.0 | 10.0 | mg/L | | | 03/21/22 15:16 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Client Sample ID: BAW-8

Lab Sample ID: 180-135319-7

Date Collected: 03/16/22 12:35

Matrix: Water

Date Received: 03/17/22 09:15

Method: EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 9.88 | | 1.00 | 0.713 | mg/L | | | 04/04/22 21:35 | 1 |
| Fluoride | 0.0673 | J | 0.100 | 0.0260 | mg/L | | | 04/04/22 21:35 | 1 |
| Sulfate | 51.4 | | 1.00 | 0.756 | mg/L | | | 04/04/22 21:35 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |
| Arsenic | 0.0130 | | 0.00100 | 0.000282 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |
| Barium | 0.0553 | | 0.0100 | 0.00314 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |
| Boron | 0.852 | | 0.0800 | 0.0601 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |
| Calcium | 25.5 | | 0.500 | 0.127 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |
| Chromium | 0.00171 | J | 0.00200 | 0.00153 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |
| Cobalt | 0.00191 | | 0.000500 | 0.000261 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |
| Lithium | 0.0172 | | 0.00500 | 0.000831 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |
| Molybdenum | 0.00527 | | 0.00500 | 0.000610 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 03/23/22 10:51 | 03/24/22 13:29 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 03/28/22 08:58 | 03/29/22 13:26 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 203 | | 10.0 | 10.0 | mg/L | | | 03/21/22 15:17 | 1 |

Client Sample ID: BAW-9

Lab Sample ID: 180-135319-8

Date Collected: 03/16/22 13:25

Matrix: Water

Date Received: 03/17/22 09:15

Method: EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 15.4 | | 1.00 | 0.713 | mg/L | | | 04/02/22 22:58 | 1 |
| Fluoride | 0.0697 | J | 0.100 | 0.0260 | mg/L | | | 04/02/22 22:58 | 1 |
| Sulfate | 45.0 | | 1.00 | 0.756 | mg/L | | | 04/02/22 22:58 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |
| Arsenic | 0.00400 | | 0.00100 | 0.000282 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |
| Barium | 0.0686 | | 0.0100 | 0.00314 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |
| Boron | 0.972 | | 0.0800 | 0.0601 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |
| Calcium | 17.6 | | 0.500 | 0.127 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |
| Cobalt | 0.000881 | | 0.000500 | 0.000261 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Client Sample ID: BAW-9

Lab Sample ID: 180-135319-8

Date Collected: 03/16/22 13:25

Matrix: Water

Date Received: 03/17/22 09:15

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Lithium | 0.0544 | | 0.00500 | 0.000831 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |
| Molybdenum | 0.00445 | J | 0.00500 | 0.000610 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 03/23/22 10:51 | 03/24/22 13:32 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 03/28/22 08:58 | 03/29/22 13:27 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 194 | | 10.0 | 10.0 | mg/L | | | 03/21/22 15:17 | 1 |

Client Sample ID: DUP-01

Lab Sample ID: 180-135319-9

Date Collected: 03/16/22 11:35

Matrix: Water

Date Received: 03/17/22 09:15

Method: EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 8.19 | | 1.00 | 0.713 | mg/L | | | 04/02/22 23:13 | 1 |
| Fluoride | 0.0373 | J | 0.100 | 0.0260 | mg/L | | | 04/02/22 23:13 | 1 |
| Sulfate | 43.5 | | 1.00 | 0.756 | mg/L | | | 04/02/22 23:13 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |
| Arsenic | 0.0126 | | 0.00100 | 0.000282 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |
| Barium | 0.0566 | | 0.0100 | 0.00314 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |
| Boron | 0.862 | | 0.0800 | 0.0601 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |
| Calcium | 26.1 | | 0.500 | 0.127 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |
| Cobalt | 0.00183 | | 0.000500 | 0.000261 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |
| Lithium | 0.0183 | | 0.00500 | 0.000831 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |
| Molybdenum | 0.00512 | | 0.00500 | 0.000610 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 03/23/22 10:51 | 03/24/22 13:35 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 03/28/22 08:58 | 03/29/22 13:28 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 180 | | 10.0 | 10.0 | mg/L | | | 03/21/22 15:17 | 1 |

Eurofins Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Client Sample ID: EB-3

Lab Sample ID: 180-135319-10

Date Collected: 03/16/22 11:15

Matrix: Water

Date Received: 03/17/22 09:15

Method: EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | <0.713 | | 1.00 | 0.713 | mg/L | | | 04/02/22 23:29 | 1 |
| Fluoride | <0.0260 | | 0.100 | 0.0260 | mg/L | | | 04/02/22 23:29 | 1 |
| Sulfate | <0.756 | | 1.00 | 0.756 | mg/L | | | 04/02/22 23:29 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |
| Barium | <0.00314 | | 0.0100 | 0.00314 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |
| Boron | <0.0601 | | 0.0800 | 0.0601 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |
| Calcium | <0.127 | | 0.500 | 0.127 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |
| Cobalt | <0.000261 | | 0.000500 | 0.000261 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |
| Lithium | <0.000831 | | 0.00500 | 0.000831 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 03/23/22 10:51 | 03/24/22 13:42 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 03/28/22 08:58 | 03/29/22 13:29 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10.0 | | 10.0 | 10.0 | mg/L | | | 03/21/22 15:17 | 1 |

Client Sample ID: FB-3

Lab Sample ID: 180-135319-11

Date Collected: 03/16/22 11:00

Matrix: Water

Date Received: 03/17/22 09:15

Method: EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | <0.713 | | 1.00 | 0.713 | mg/L | | | 04/04/22 22:43 | 1 |
| Fluoride | <0.0260 | | 0.100 | 0.0260 | mg/L | | | 04/04/22 22:43 | 1 |
| Sulfate | 0.822 | J | 1.00 | 0.756 | mg/L | | | 04/04/22 22:43 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |
| Barium | <0.00314 | | 0.0100 | 0.00314 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |
| Boron | <0.0601 | | 0.0800 | 0.0601 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |
| Calcium | <0.127 | | 0.500 | 0.127 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |
| Cobalt | <0.000261 | | 0.000500 | 0.000261 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Client Sample ID: FB-3

Lab Sample ID: 180-135319-11

Date Collected: 03/16/22 11:00

Matrix: Water

Date Received: 03/17/22 09:15

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Lithium | <0.000831 | | 0.00500 | 0.000831 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 03/23/22 10:51 | 03/24/22 13:45 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 03/28/22 08:58 | 03/29/22 13:30 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10.0 | | 10.0 | 10.0 | mg/L | | | 03/21/22 15:17 | 1 |

QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Method: EPA 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 180-393986/7
Matrix: Water
Analysis Batch: 393986

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Chloride | <0.713 | | 1.00 | 0.713 | mg/L | | | 04/02/22 11:38 | 1 |
| Fluoride | <0.0260 | | 0.100 | 0.0260 | mg/L | | | 04/02/22 11:38 | 1 |
| Sulfate | <0.756 | | 1.00 | 0.756 | mg/L | | | 04/02/22 11:38 | 1 |

Lab Sample ID: LCS 180-393986/6
Matrix: Water
Analysis Batch: 393986

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 | 49.14 | | mg/L | | 98 | 80 - 120 |
| Fluoride | 2.50 | 2.442 | | mg/L | | 98 | 80 - 120 |
| Sulfate | 50.0 | 48.28 | | mg/L | | 97 | 80 - 120 |

Lab Sample ID: MB 180-394098/7
Matrix: Water
Analysis Batch: 394098

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Chloride | <0.713 | | 1.00 | 0.713 | mg/L | | | 04/04/22 19:05 | 1 |
| Fluoride | <0.0260 | | 0.100 | 0.0260 | mg/L | | | 04/04/22 19:05 | 1 |
| Sulfate | <0.756 | | 1.00 | 0.756 | mg/L | | | 04/04/22 19:05 | 1 |

Lab Sample ID: LCS 180-394098/6
Matrix: Water
Analysis Batch: 394098

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 | 51.83 | | mg/L | | 104 | 80 - 120 |
| Fluoride | 2.50 | 2.701 | | mg/L | | 108 | 80 - 120 |
| Sulfate | 50.0 | 52.71 | | mg/L | | 105 | 80 - 120 |

Lab Sample ID: 180-135319-1 MS
Matrix: Water
Analysis Batch: 394098

Client Sample ID: BAW-1
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 7.85 | | 50.0 | 66.71 | | mg/L | | 118 | 80 - 120 |
| Fluoride | <0.0260 | F1 | 2.50 | 3.121 | F1 | mg/L | | 125 | 80 - 120 |
| Sulfate | 3.60 | F1 B | 50.0 | 64.27 | F1 | mg/L | | 121 | 80 - 120 |

Lab Sample ID: 180-135319-1 MSD
Matrix: Water
Analysis Batch: 394098

Client Sample ID: BAW-1
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 7.85 | | 50.0 | 65.05 | | mg/L | | 114 | 80 - 120 | 3 | 15 |
| Fluoride | <0.0260 | F1 | 2.50 | 3.016 | F1 | mg/L | | 121 | 80 - 120 | 3 | 15 |
| Sulfate | 3.60 | F1 B | 50.0 | 61.77 | | mg/L | | 116 | 80 - 120 | 4 | 15 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Method: EPA 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-135319-6 MS
Matrix: Water
Analysis Batch: 394098

Client Sample ID: BAW-7
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 13.0 | F1 | 50.0 | 73.99 | F1 | mg/L | | 122 | 80 - 120 |
| Fluoride | 0.0266 | J F1 | 2.50 | 3.299 | F1 | mg/L | | 131 | 80 - 120 |
| Sulfate | 5.93 | F1 | 50.0 | 68.75 | F1 | mg/L | | 126 | 80 - 120 |

Lab Sample ID: 180-135319-6 MSD
Matrix: Water
Analysis Batch: 394098

Client Sample ID: BAW-7
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 13.0 | F1 | 50.0 | 73.20 | | mg/L | | 120 | 80 - 120 | 1 | 15 |
| Fluoride | 0.0266 | J F1 | 2.50 | 3.244 | F1 | mg/L | | 129 | 80 - 120 | 2 | 15 |
| Sulfate | 5.93 | F1 | 50.0 | 67.73 | F1 | mg/L | | 124 | 80 - 120 | 1 | 15 |

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

Lab Sample ID: MB 180-392733/1-A
Matrix: Water
Analysis Batch: 392994

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 392733

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |
| Barium | <0.00314 | | 0.0100 | 0.00314 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |
| Boron | <0.0601 | | 0.0800 | 0.0601 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |
| Calcium | <0.127 | | 0.500 | 0.127 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |
| Cobalt | <0.000261 | | 0.000500 | 0.000261 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |
| Lithium | <0.000831 | | 0.00500 | 0.000831 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 03/23/22 10:51 | 03/24/22 12:28 | 1 |

Lab Sample ID: LCS 180-392733/2-A
Matrix: Water
Analysis Batch: 392994

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 392733

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
| Antimony | 0.250 | 0.2556 | | mg/L | | 102 | 80 - 120 |
| Arsenic | 1.00 | 1.034 | | mg/L | | 103 | 80 - 120 |
| Barium | 1.00 | 1.068 | | mg/L | | 107 | 80 - 120 |
| Beryllium | 0.500 | 0.5382 | | mg/L | | 108 | 80 - 120 |
| Boron | 1.25 | 1.252 | | mg/L | | 100 | 80 - 120 |
| Cadmium | 0.500 | 0.5447 | | mg/L | | 109 | 80 - 120 |
| Calcium | 25.0 | 28.37 | | mg/L | | 113 | 80 - 120 |
| Chromium | 0.500 | 0.5264 | | mg/L | | 105 | 80 - 120 |
| Cobalt | 0.500 | 0.5263 | | mg/L | | 105 | 80 - 120 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

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

Lab Sample ID: LCS 180-392733/2-A
Matrix: Water
Analysis Batch: 392994

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 392733

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Lead | 0.500 | 0.5337 | | mg/L | | 107 | 80 - 120 |
| Lithium | 0.500 | 0.5049 | | mg/L | | 101 | 80 - 120 |
| Molybdenum | 0.500 | 0.5548 | | mg/L | | 111 | 80 - 120 |
| Selenium | 1.00 | 1.037 | | mg/L | | 104 | 80 - 120 |
| Thallium | 1.00 | 1.094 | | mg/L | | 109 | 80 - 120 |

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-393254/1-A
Matrix: Water
Analysis Batch: 393481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 393254

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 03/28/22 08:58 | 03/29/22 13:13 | 1 |

Lab Sample ID: LCS 180-393254/2-A
Matrix: Water
Analysis Batch: 393481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 393254

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00250 | 0.002473 | | mg/L | | 99 | 80 - 120 |

Lab Sample ID: 180-135319-1 MS
Matrix: Water
Analysis Batch: 393481

Client Sample ID: BAW-1
Prep Type: Total/NA
Prep Batch: 393254

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Mercury | <0.000130 | | 0.00100 | 0.001022 | | mg/L | | 102 | 75 - 125 |

Lab Sample ID: 180-135319-1 MSD
Matrix: Water
Analysis Batch: 393481

Client Sample ID: BAW-1
Prep Type: Total/NA
Prep Batch: 393254

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-------|
| Mercury | <0.000130 | | 0.00100 | 0.001027 | | mg/L | | 103 | 75 - 125 | 0 | 20 |

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

Lab Sample ID: MB 180-392458/2
Matrix: Water
Analysis Batch: 392458

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 | <10.0 | | 10.0 | 10.0 | mg/L | | | 03/21/22 15:16 | 1 |

Lab Sample ID: LCS 180-392458/1
Matrix: Water
Analysis Batch: 392458

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 | 469 | 440.0 | | mg/L | | 94 | 85 - 115 |

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

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

Lab Sample ID: MB 180-392459/2
Matrix: Water
Analysis Batch: 392459

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 | <10.0 | | 10.0 | 10.0 | mg/L | | | 03/21/22 15:17 | 1 |

Lab Sample ID: LCS 180-392459/1
Matrix: Water
Analysis Batch: 392459

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 | 469 | 452.0 | | mg/L | | 96 | 85 - 115 |

Lab Sample ID: 180-135319-7 DU
Matrix: Water
Analysis Batch: 392459

Client Sample ID: BAW-8
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 203 | | 193.0 | | mg/L | | 5 | 10 |

QC Association Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

HPLC/IC

Analysis Batch: 393986

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|-----------|------------|
| 180-135319-8 | BAW-9 | Total/NA | Water | EPA 9056A | |
| 180-135319-9 | DUP-01 | Total/NA | Water | EPA 9056A | |
| 180-135319-10 | EB-3 | Total/NA | Water | EPA 9056A | |
| MB 180-393986/7 | Method Blank | Total/NA | Water | EPA 9056A | |
| LCS 180-393986/6 | Lab Control Sample | Total/NA | Water | EPA 9056A | |

Analysis Batch: 394098

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|-----------|------------|
| 180-135319-1 | BAW-1 | Total/NA | Water | EPA 9056A | |
| 180-135319-2 | BAW-2A | Total/NA | Water | EPA 9056A | |
| 180-135319-3 | BAW-3 | Total/NA | Water | EPA 9056A | |
| 180-135319-4 | BAW-4 | Total/NA | Water | EPA 9056A | |
| 180-135319-5 | BAW-5 | Total/NA | Water | EPA 9056A | |
| 180-135319-6 | BAW-7 | Total/NA | Water | EPA 9056A | |
| 180-135319-7 | BAW-8 | Total/NA | Water | EPA 9056A | |
| 180-135319-11 | FB-3 | Total/NA | Water | EPA 9056A | |
| MB 180-394098/7 | Method Blank | Total/NA | Water | EPA 9056A | |
| LCS 180-394098/6 | Lab Control Sample | Total/NA | Water | EPA 9056A | |
| 180-135319-1 MS | BAW-1 | Total/NA | Water | EPA 9056A | |
| 180-135319-1 MSD | BAW-1 | Total/NA | Water | EPA 9056A | |
| 180-135319-6 MS | BAW-7 | Total/NA | Water | EPA 9056A | |
| 180-135319-6 MSD | BAW-7 | Total/NA | Water | EPA 9056A | |

Metals

Prep Batch: 392733

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-135319-1 | BAW-1 | Total Recoverable | Water | 3005A | |
| 180-135319-2 | BAW-2A | Total Recoverable | Water | 3005A | |
| 180-135319-3 | BAW-3 | Total Recoverable | Water | 3005A | |
| 180-135319-4 | BAW-4 | Total Recoverable | Water | 3005A | |
| 180-135319-5 | BAW-5 | Total Recoverable | Water | 3005A | |
| 180-135319-6 | BAW-7 | Total Recoverable | Water | 3005A | |
| 180-135319-7 | BAW-8 | Total Recoverable | Water | 3005A | |
| 180-135319-8 | BAW-9 | Total Recoverable | Water | 3005A | |
| 180-135319-9 | DUP-01 | Total Recoverable | Water | 3005A | |
| 180-135319-10 | EB-3 | Total Recoverable | Water | 3005A | |
| 180-135319-11 | FB-3 | Total Recoverable | Water | 3005A | |
| MB 180-392733/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 180-392733/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

Analysis Batch: 392994

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|-----------|------------|
| 180-135319-1 | BAW-1 | Total Recoverable | Water | EPA 6020B | 392733 |
| 180-135319-2 | BAW-2A | Total Recoverable | Water | EPA 6020B | 392733 |
| 180-135319-3 | BAW-3 | Total Recoverable | Water | EPA 6020B | 392733 |
| 180-135319-4 | BAW-4 | Total Recoverable | Water | EPA 6020B | 392733 |
| 180-135319-5 | BAW-5 | Total Recoverable | Water | EPA 6020B | 392733 |
| 180-135319-6 | BAW-7 | Total Recoverable | Water | EPA 6020B | 392733 |
| 180-135319-7 | BAW-8 | Total Recoverable | Water | EPA 6020B | 392733 |
| 180-135319-8 | BAW-9 | Total Recoverable | Water | EPA 6020B | 392733 |

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QC Association Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

Metals (Continued)

Analysis Batch: 392994 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|-----------|------------|
| 180-135319-9 | DUP-01 | Total Recoverable | Water | EPA 6020B | 392733 |
| 180-135319-10 | EB-3 | Total Recoverable | Water | EPA 6020B | 392733 |
| 180-135319-11 | FB-3 | Total Recoverable | Water | EPA 6020B | 392733 |
| MB 180-392733/1-A | Method Blank | Total Recoverable | Water | EPA 6020B | 392733 |
| LCS 180-392733/2-A | Lab Control Sample | Total Recoverable | Water | EPA 6020B | 392733 |

Prep Batch: 393254

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-135319-1 | BAW-1 | Total/NA | Water | 7470A | |
| 180-135319-2 | BAW-2A | Total/NA | Water | 7470A | |
| 180-135319-3 | BAW-3 | Total/NA | Water | 7470A | |
| 180-135319-4 | BAW-4 | Total/NA | Water | 7470A | |
| 180-135319-5 | BAW-5 | Total/NA | Water | 7470A | |
| 180-135319-6 | BAW-7 | Total/NA | Water | 7470A | |
| 180-135319-7 | BAW-8 | Total/NA | Water | 7470A | |
| 180-135319-8 | BAW-9 | Total/NA | Water | 7470A | |
| 180-135319-9 | DUP-01 | Total/NA | Water | 7470A | |
| 180-135319-10 | EB-3 | Total/NA | Water | 7470A | |
| 180-135319-11 | FB-3 | Total/NA | Water | 7470A | |
| MB 180-393254/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 180-393254/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 180-135319-1 MS | BAW-1 | Total/NA | Water | 7470A | |
| 180-135319-1 MSD | BAW-1 | Total/NA | Water | 7470A | |

Analysis Batch: 393481

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 180-135319-1 | BAW-1 | Total/NA | Water | EPA 7470A | 393254 |
| 180-135319-2 | BAW-2A | Total/NA | Water | EPA 7470A | 393254 |
| 180-135319-3 | BAW-3 | Total/NA | Water | EPA 7470A | 393254 |
| 180-135319-4 | BAW-4 | Total/NA | Water | EPA 7470A | 393254 |
| 180-135319-5 | BAW-5 | Total/NA | Water | EPA 7470A | 393254 |
| 180-135319-6 | BAW-7 | Total/NA | Water | EPA 7470A | 393254 |
| 180-135319-7 | BAW-8 | Total/NA | Water | EPA 7470A | 393254 |
| 180-135319-8 | BAW-9 | Total/NA | Water | EPA 7470A | 393254 |
| 180-135319-9 | DUP-01 | Total/NA | Water | EPA 7470A | 393254 |
| 180-135319-10 | EB-3 | Total/NA | Water | EPA 7470A | 393254 |
| 180-135319-11 | FB-3 | Total/NA | Water | EPA 7470A | 393254 |
| MB 180-393254/1-A | Method Blank | Total/NA | Water | EPA 7470A | 393254 |
| LCS 180-393254/2-A | Lab Control Sample | Total/NA | Water | EPA 7470A | 393254 |
| 180-135319-1 MS | BAW-1 | Total/NA | Water | EPA 7470A | 393254 |
| 180-135319-1 MSD | BAW-1 | Total/NA | Water | EPA 7470A | 393254 |

General Chemistry

Analysis Batch: 392458

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 180-135319-1 | BAW-1 | Total/NA | Water | SM 2540C | |
| 180-135319-2 | BAW-2A | Total/NA | Water | SM 2540C | |
| 180-135319-3 | BAW-3 | Total/NA | Water | SM 2540C | |
| 180-135319-4 | BAW-4 | Total/NA | Water | SM 2540C | |
| 180-135319-5 | BAW-5 | Total/NA | Water | SM 2540C | |

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-1

General Chemistry (Continued)

Analysis Batch: 392458 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-135319-6 | BAW-7 | Total/NA | Water | SM 2540C | |
| MB 180-392458/2 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-392458/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 392459

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-135319-7 | BAW-8 | Total/NA | Water | SM 2540C | |
| 180-135319-8 | BAW-9 | Total/NA | Water | SM 2540C | |
| 180-135319-9 | DUP-01 | Total/NA | Water | SM 2540C | |
| 180-135319-10 | EB-3 | Total/NA | Water | SM 2540C | |
| 180-135319-11 | FB-3 | Total/NA | Water | SM 2540C | |
| MB 180-392459/2 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-392459/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 180-135319-7 DU | BAW-8 | Total/NA | Water | SM 2540C | |

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



| | | | | | | | | | | | |
|--|--|--|--|--|--|---------------------------------|--|---|--|--|--|
| Client Information | | Sampler: <u>Brett Sierles / Phil Evans</u> | | Lab PM: <u>Brown, Shali</u> | | Carrier Tracking No(s): | | COC No: | | | |
| Client Contact: SCS Contacts | | Phone: <u>852 380 3458</u> | | E-Mail: <u>shali.brown@eurofinset.com</u> | | | | Page: <u>1-1</u> | | | |
| Company: SCS | | Address: 3535 Colonnade Pkwy Bin S 530 EC | | Due Date Requested: | | Analysis Requested | | Job #: | | | |
| City: Birmingham | | State, Zip: Alabama | | TAT Requested (days): | | | | Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) | | | |
| Phone: 205.992.6283 | | PO #: SCS10382606 | | Field Filtered Sample (Yes or No) | | | | | | Total Number of containers: Perform MS/MSD (Yes or No) Custom 14 (Appli and IV) + Mercury Chloride Fluoride and Sulfate Total Dissolved Solids Radium 226 Radium 228 + Combined | |
| Email: SCS Contacts | | WO #: | | Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air) | | | | | | | |
| Project Name: Plant Daniel Ash Pond B | | Project #: 18020047 | | Sample Date | | | | | | | |
| Site: | | SSOW#: | | Sample Time | | Sample Type (C=Comp, G=grab) | | Special Instructions/Note: | | | |
| Sample Identification | | | | | | | | | | | |
| BAW-1 | | 3/16/22 | | 0853 | | G | | W | | LOTT H263 | |
| BAW-2A | | | | 0948 | | | | | | 0000258P32 | |
| BAW-3 | | | | 1052 | | | | | | | |
| BAW-4 | | | | 1258 | | | | | | | |
| BAW-5 | | | | 1159 | | | | | | | |
| BAW-7 | | | | 0752 | | | | | | | |
| BAW-6 BAW-8 | | | | 1235 | | | | | | | |
| BAW-7 BAW-9 | | | | 1325 | | | | | | | |
| Dup-01 | | | | 1135 | | | | | | | |
| EB-3 | | | | 1115 | | | | | | | |
| FD-3 | | 3/16/22 | | 1100 | | G | | W | | | |
| Possible Hazard Identification | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | | | |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | <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: | | Date: | | Time: | | Method of Shipment: | | | | | |
| Relinquished by: <u>[Signature]</u> | | Date/Time: <u>3/16/22 1400</u> | | Company: <u>RDH</u> | | Received by: <u>[Signature]</u> | | Date/Time: <u>3/17/22 915</u> | | Company: <u>RDH</u> | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | | Company: | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | | Company: | |
| Custody Seals Intact: Δ Yes Δ No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | | | | | | |



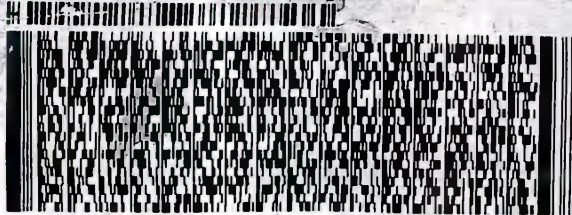
SHIP DATE: 16MAR22
ACTWGT: 54.60 LB
CAD: 8994563/SSFE2300
DIMS: 24x12x14 IN
BILL THREE

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

TO EUROFINS TEST AMERICA
301 ALPHA DR
PITTSBURGH PA 15238

(412) 983-7068
REF:

RT 98
10:30
0014
03.17
FZ



FedEx 1 pcs
MPS# 0263 2709 4501 0014
THU - 17 MAR AA
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US
PIT

Uncorrected temp 4.5 °C
Thermometer ID 16
CF 0 Initials J
PT-WI-SR-001 effective 11/8/18

4823362 16Mar2022 MOBA 56DG5/EB02/C088



180-135319 Waybill

label here.

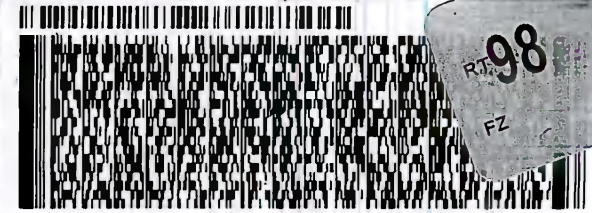
TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

TO EUROFINS TEST AMERICA

301 ALPHA DR

PITTSBURGH PA 15238

(412) 983-7068
REF: DEPT:



1 of 4
TRK# 0201 2709 4500 9992
MASTER

THU - 17 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT

Uncorrected temp 3.4 °C
Thermometer ID 16
CF -4 Initials J
PT-WI-SR-001 effective 11/8/18

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-135319-1

Login Number: 135319

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

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

Laboratory Job ID: 180-135319-2
Client Project/Site: Plant Daniel Ash Pond B

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

Attn: Robert Singleton



Authorized for release by:
4/14/2022 3:38:04 PM

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



Table of Contents

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Case Narrative

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Job ID: 180-135319-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-135319-2

Receipt

The samples were received on 3/17/2022 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.0°C and 4.1°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 batch 556453 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. BAW-1 (180-135319-1), BAW-2A (180-135319-2), BAW-3 (180-135319-3), BAW-4 (180-135319-4), BAW-5 (180-135319-5), BAW-7 (180-135319-6), BAW-8 (180-135319-7), (LCS 160-556453/1-A), (LCSD 160-556453/2-A) and (MB 160-556453/23-A)

Method 9315_Ra226: Radium-226 batch 556462 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. BAW-9 (180-135319-8), DUP-01 (180-135319-9), EB-3 (180-135319-10), FB-3 (180-135319-11), (LCS 160-556462/1-A), (LCSD 160-556462/2-A) and (MB 160-556462/16-A)

Method 9320_Ra228: Radium-228 prep batch 160-556470: The LCS/LCSD recovered at 64%/59%. The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS/LCSD are not from this agency and are therefore held to our in-house statistical limits of 61-138% per method requirements. The LCS passes, and the precision is within acceptance limits for the LCSD, no further action is required. (LCS 160-556470/1-A) and (LCSD 160-556470/2-A)

Method 9320_Ra228: Radium-228 prep batch 160-556470: 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. BAW-9 (180-135319-8), DUP-01 (180-135319-9), EB-3 (180-135319-10), FB-3 (180-135319-11), (LCS 160-556470/1-A), (LCSD 160-556470/2-A) and (MB 160-556470/16-A)

Method 9320_Ra228: Radium 228 Batch 160-556460: 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. BAW-1 (180-135319-1), BAW-2A (180-135319-2), BAW-3 (180-135319-3), BAW-4 (180-135319-4), BAW-5 (180-135319-5), BAW-7 (180-135319-6), BAW-8 (180-135319-7), (LCS 160-556460/1-A), (LCSD 160-556460/2-A) and (MB 160-556460/23-A)

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

Rad

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 Daniel Ash Pond B

Job ID: 180-135319-2

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: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Laboratory: Eurofins St. Louis

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

| Authority | Program | Identification Number | Expiration Date |
|--------------------------|---|----------------------------|-----------------|
| Alaska (UST) | State | 20-001 | 05-06-22 |
| ANAB | Dept. of Defense ELAP | L2305 | 04-06-25 |
| ANAB | Dept. of Energy | L2305.01 | 04-06-25 |
| ANAB | ISO/IEC 17025 | L2305 | 04-06-25 |
| Arizona | State | AZ0813 | 12-08-22 |
| California | Los Angeles County Sanitation Districts | 10259 | 06-30-22 |
| California | State | 2886 | 07-01-22 |
| Connecticut | State | PH-0241 | 03-31-23 |
| Florida | NELAP | E87689 | 06-30-22 |
| HI - RadChem Recognition | State | n/a | 06-30-22 |
| Illinois | NELAP | 200023 | 11-30-22 |
| Iowa | State | 373 | 12-01-22 |
| Kansas | NELAP | E-10236 | 10-31-22 |
| Kentucky (DW) | State | KY90125 | 12-31-22 |
| Kentucky (WW) | State | KY90125 (Permit KY0004049) | 12-31-22 |
| Louisiana | NELAP | 04080 | 06-30-22 |
| Louisiana (DW) | State | LA011 | 12-31-22 |
| Maryland | State | 310 | 09-30-22 |
| MI - RadChem Recognition | State | 9005 | 06-30-22 |
| Missouri | State | 780 | 06-30-22 |
| Nevada | State | MO000542020-1 | 07-31-22 |
| New Jersey | NELAP | MO002 | 06-30-22 |
| New York | NELAP | 11616 | 04-01-23 |
| North Dakota | State | R-207 | 06-30-22 |
| NRC | NRC | 24-24817-01 | 12-31-22 |
| Oklahoma | NELAP | 9997 | 08-31-22 |
| Oregon | NELAP | 4157 | 09-01-22 |
| Pennsylvania | NELAP | 68-00540 | 02-28-23 |
| South Carolina | State | 85002001 | 06-30-22 |
| Texas | NELAP | T104704193 | 07-31-22 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-22 |
| USDA | US Federal Programs | P330-17-00028 | 03-11-23 |
| Utah | NELAP | MO000542021-14 | 08-01-22 |
| Virginia | NELAP | 10310 | 06-14-22 |
| Washington | State | C592 | 08-30-22 |
| West Virginia DEP | State | 381 | 10-31-22 |

Sample Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 180-135319-1 | BAW-1 | Water | 03/16/22 08:53 | 03/17/22 09:15 |
| 180-135319-2 | BAW-2A | Water | 03/16/22 09:48 | 03/17/22 09:15 |
| 180-135319-3 | BAW-3 | Water | 03/16/22 10:52 | 03/17/22 09:15 |
| 180-135319-4 | BAW-4 | Water | 03/16/22 12:58 | 03/17/22 09:15 |
| 180-135319-5 | BAW-5 | Water | 03/16/22 11:59 | 03/17/22 09:15 |
| 180-135319-6 | BAW-7 | Water | 03/16/22 07:52 | 03/17/22 09:15 |
| 180-135319-7 | BAW-8 | Water | 03/16/22 12:35 | 03/17/22 09:15 |
| 180-135319-8 | BAW-9 | Water | 03/16/22 13:25 | 03/17/22 09:15 |
| 180-135319-9 | DUP-01 | Water | 03/16/22 11:35 | 03/17/22 09:15 |
| 180-135319-10 | EB-3 | Water | 03/16/22 11:15 | 03/17/22 09:15 |
| 180-135319-11 | FB-3 | Water | 03/16/22 11:00 | 03/17/22 09:15 |

- 1
- 2
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- 13

Method Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

| 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 St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Client Sample ID: BAW-1
Date Collected: 03/16/22 08:53
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-1
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 | | | 992.06 mL | 1.0 g | 556453 | 03/22/22 09:48 | LPS | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 560046 | 04/13/22 08:29 | FLC | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 992.06 mL | 1.0 g | 556460 | 03/22/22 10:30 | LPS | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 559798 | 04/11/22 12:32 | CLP | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 560198 | 04/13/22 12:57 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-2A
Date Collected: 03/16/22 09:48
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-2
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 | | | 1004.59 mL | 1.0 g | 556453 | 03/22/22 09:48 | LPS | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 560046 | 04/13/22 08:29 | FLC | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1004.59 mL | 1.0 g | 556460 | 03/22/22 10:30 | LPS | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 559798 | 04/11/22 12:32 | CLP | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 560198 | 04/13/22 12:57 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-3
Date Collected: 03/16/22 10:52
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-3
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 | | | 1008.08 mL | 1.0 g | 556453 | 03/22/22 09:48 | LPS | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 560046 | 04/13/22 08:33 | FLC | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1008.08 mL | 1.0 g | 556460 | 03/22/22 10:30 | LPS | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 559798 | 04/11/22 12:32 | CLP | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 560198 | 04/13/22 12:57 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-4
Date Collected: 03/16/22 12:58
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-4
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 | | | 999.43 mL | 1.0 g | 556453 | 03/22/22 09:48 | LPS | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 560046 | 04/13/22 08:33 | FLC | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Client Sample ID: BAW-4
Date Collected: 03/16/22 12:58
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-4
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 | | | 999.43 mL | 1.0 g | 556460 | 03/22/22 10:30 | LPS | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 559798 | 04/11/22 12:32 | CLP | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 560198 | 04/13/22 12:57 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-5
Date Collected: 03/16/22 11:59
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-5
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 | | | 1002.21 mL | 1.0 g | 556453 | 03/22/22 09:48 | LPS | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 560046 | 04/13/22 08:33 | FLC | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1002.21 mL | 1.0 g | 556460 | 03/22/22 10:30 | LPS | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 559797 | 04/11/22 12:26 | CLP | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 560198 | 04/13/22 12:57 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-7
Date Collected: 03/16/22 07:52
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-6
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 | | | 1006.32 mL | 1.0 g | 556453 | 03/22/22 09:48 | LPS | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 560046 | 04/13/22 08:34 | FLC | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1006.32 mL | 1.0 g | 556460 | 03/22/22 10:30 | LPS | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 559797 | 04/11/22 12:26 | CLP | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 560198 | 04/13/22 12:57 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-8
Date Collected: 03/16/22 12:35
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-7
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 | | | 994.43 mL | 1.0 g | 556453 | 03/22/22 09:48 | LPS | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 560046 | 04/13/22 08:34 | FLC | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 994.43 mL | 1.0 g | 556460 | 03/22/22 10:30 | LPS | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 559797 | 04/11/22 12:26 | CLP | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Client Sample ID: BAW-8
Date Collected: 03/16/22 12:35
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-7
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 | | | 560198 | 04/13/22 12:57 | SCB | TAL SL |

Client Sample ID: BAW-9
Date Collected: 03/16/22 13:25
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-8
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 | | | 1002.75 mL | 1.0 g | 556462 | 03/22/22 10:33 | LPS | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 560046 | 04/13/22 10:39 | FLC | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1002.75 mL | 1.0 g | 556470 | 03/22/22 11:06 | LPS | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 559310 | 04/08/22 11:37 | FLC | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 560437 | 04/14/22 14:48 | EMH | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: DUP-01
Date Collected: 03/16/22 11:35
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-9
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 | | | 1000.27 mL | 1.0 g | 556462 | 03/22/22 10:33 | LPS | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 560046 | 04/13/22 10:39 | FLC | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.27 mL | 1.0 g | 556470 | 03/22/22 11:06 | LPS | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 559310 | 04/08/22 11:36 | FLC | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 560437 | 04/14/22 14:48 | EMH | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: EB-3
Date Collected: 03/16/22 11:15
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-10
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 | | | 994.52 mL | 1.0 g | 556462 | 03/22/22 10:33 | LPS | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 560046 | 04/13/22 10:39 | FLC | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 994.52 mL | 1.0 g | 556470 | 03/22/22 11:06 | LPS | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 559310 | 04/08/22 11:37 | FLC | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 560437 | 04/14/22 14:48 | EMH | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Client Sample ID: FB-3

Lab Sample ID: 180-135319-11

Date Collected: 03/16/22 11:00

Matrix: Water

Date Received: 03/17/22 09:15

| 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 | | | 1004.66 mL | 1.0 g | 556462 | 03/22/22 10:33 | LPS | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 560046 | 04/13/22 10:40 | FLC | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1004.66 mL | 1.0 g | 556470 | 03/22/22 11:06 | LPS | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 559310 | 04/08/22 11:37 | FLC | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 560437 | 04/14/22 14:48 | EMH | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

LPS = Lauren Szostak

Batch Type: Analysis

CLP = Cassandra Park

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

SCB = Sarah Bernsen

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Client Sample ID: BAW-1
Date Collected: 03/16/22 08:53
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-1
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 | 0.391 | | 0.193 | 0.196 | 1.00 | 0.250 | pCi/L | 03/22/22 09:48 | 04/13/22 08:29 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.3 | | 40 - 110 | | | | | 03/22/22 09:48 | 04/13/22 08:29 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.738 | | 0.289 | 0.296 | 1.00 | 0.396 | pCi/L | 03/22/22 10:30 | 04/11/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.3 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:32 | 1 |
| Y Carrier | 78.9 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:32 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.13 | | 0.348 | 0.355 | 5.00 | 0.396 | pCi/L | | 04/13/22 12:57 | 1 |

Client Sample ID: BAW-2A
Date Collected: 03/16/22 09:48
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-2
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.202 | U | 0.147 | 0.149 | 1.00 | 0.215 | pCi/L | 03/22/22 09:48 | 04/13/22 08:29 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 101 | | 40 - 110 | | | | | 03/22/22 09:48 | 04/13/22 08:29 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.256 | U | 0.226 | 0.228 | 1.00 | 0.362 | pCi/L | 03/22/22 10:30 | 04/11/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 101 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:32 | 1 |
| Y Carrier | 81.5 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:32 | 1 |

Eurofins Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Client Sample ID: BAW-2A

Lab Sample ID: 180-135319-2

Date Collected: 03/16/22 09:48

Matrix: Water

Date Received: 03/17/22 09:15

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.458 | | 0.270 | 0.272 | 5.00 | 0.362 | pCi/L | | 04/13/22 12:57 | 1 |

Client Sample ID: BAW-3

Lab Sample ID: 180-135319-3

Date Collected: 03/16/22 10:52

Matrix: Water

Date Received: 03/17/22 09:15

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0675 | U | 0.103 | 0.103 | 1.00 | 0.178 | pCi/L | 03/22/22 09:48 | 04/13/22 08:33 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 97.8 | | 40 - 110 | | | | | 03/22/22 09:48 | 04/13/22 08:33 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.218 | U | 0.234 | 0.235 | 1.00 | 0.383 | pCi/L | 03/22/22 10:30 | 04/11/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 97.8 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:32 | 1 |
| Y Carrier | 80.7 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:32 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.286 | U | 0.256 | 0.257 | 5.00 | 0.383 | pCi/L | | 04/13/22 12:57 | 1 |

Client Sample ID: BAW-4

Lab Sample ID: 180-135319-4

Date Collected: 03/16/22 12:58

Matrix: Water

Date Received: 03/17/22 09:15

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.206 | | 0.125 | 0.126 | 1.00 | 0.155 | pCi/L | 03/22/22 09:48 | 04/13/22 08:33 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.3 | | 40 - 110 | | | | | 03/22/22 09:48 | 04/13/22 08:33 | 1 |

Eurofins Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Client Sample ID: BAW-4

Date Collected: 03/16/22 12:58

Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-4

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 | 0.108 | U | 0.250 | 0.250 | 1.00 | 0.429 | pCi/L | 03/22/22 10:30 | 04/11/22 12:32 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.3 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:32 | 1 |
| Y Carrier | 78.9 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:32 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.314 | U | 0.280 | 0.280 | 5.00 | 0.429 | pCi/L | | 04/13/22 12:57 | 1 |

Client Sample ID: BAW-5

Date Collected: 03/16/22 11:59

Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-5

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 | 0.251 | | 0.143 | 0.145 | 1.00 | 0.184 | pCi/L | 03/22/22 09:48 | 04/13/22 08:33 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.0 | | 40 - 110 | | | | | 03/22/22 09:48 | 04/13/22 08:33 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.14 | | 0.314 | 0.331 | 1.00 | 0.381 | pCi/L | 03/22/22 10:30 | 04/11/22 12:26 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.0 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:26 | 1 |
| Y Carrier | 74.8 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:26 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.39 | | 0.345 | 0.361 | 5.00 | 0.381 | pCi/L | | 04/13/22 12:57 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Client Sample ID: BAW-7

Lab Sample ID: 180-135319-6

Date Collected: 03/16/22 07:52

Matrix: Water

Date Received: 03/17/22 09:15

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.290 | | 0.135 | 0.138 | 1.00 | 0.140 | pCi/L | 03/22/22 09:48 | 04/13/22 08:34 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 100 | | 40 - 110 | | | | | 03/22/22 09:48 | 04/13/22 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 | 1.10 | | 0.305 | 0.321 | 1.00 | 0.380 | pCi/L | 03/22/22 10:30 | 04/11/22 12:26 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 100 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:26 | 1 |
| Y Carrier | 78.9 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:26 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.39 | | 0.334 | 0.349 | 5.00 | 0.380 | pCi/L | | 04/13/22 12:57 | 1 |

Client Sample ID: BAW-8

Lab Sample ID: 180-135319-7

Date Collected: 03/16/22 12:35

Matrix: Water

Date Received: 03/17/22 09:15

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.378 | | 0.161 | 0.164 | 1.00 | 0.170 | pCi/L | 03/22/22 09:48 | 04/13/22 08:34 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 97.8 | | 40 - 110 | | | | | 03/22/22 09:48 | 04/13/22 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 | 0.864 | | 0.297 | 0.308 | 1.00 | 0.401 | pCi/L | 03/22/22 10:30 | 04/11/22 12:26 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 97.8 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:26 | 1 |
| Y Carrier | 80.7 | | 40 - 110 | | | | | 03/22/22 10:30 | 04/11/22 12:26 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Client Sample ID: BAW-8
Date Collected: 03/16/22 12:35
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-7
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 | 1.24 | | 0.338 | 0.349 | 5.00 | 0.401 | pCi/L | | 04/13/22 12:57 | 1 |

Client Sample ID: BAW-9
Date Collected: 03/16/22 13:25
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-8
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 | 0.245 | | 0.130 | 0.132 | 1.00 | 0.174 | pCi/L | 03/22/22 10:33 | 04/13/22 10:39 | 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 | 92.1 | | 40 - 110 | | | | | 03/22/22 10:33 | 04/13/22 10:39 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 0.458 | * | 0.224 | 0.228 | 1.00 | 0.320 | pCi/L | 03/22/22 11:06 | 04/08/22 11:37 | 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 | 92.1 | | 40 - 110 | | | | | 03/22/22 11:06 | 04/08/22 11:37 | 1 |
| Y Carrier | 83.7 | | 40 - 110 | | | | | 03/22/22 11:06 | 04/08/22 11:37 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.702 | | 0.259 | 0.263 | 5.00 | 0.320 | pCi/L | | 04/14/22 14:48 | 1 |

Client Sample ID: DUP-01
Date Collected: 03/16/22 11:35
Date Received: 03/17/22 09:15

Lab Sample ID: 180-135319-9
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 | 0.331 | | 0.135 | 0.139 | 1.00 | 0.161 | pCi/L | 03/22/22 10:33 | 04/13/22 10:39 | 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 | 96.8 | | 40 - 110 | | | | | 03/22/22 10:33 | 04/13/22 10:39 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Client Sample ID: DUP-01

Lab Sample ID: 180-135319-9

Date Collected: 03/16/22 11:35

Matrix: Water

Date Received: 03/17/22 09:15

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 * | 0.207 | 0.208 | 1.00 | 0.332 | pCi/L | 03/22/22 11:06 | 04/08/22 11:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 96.8 | | 40 - 110 | | | | | 03/22/22 11:06 | 04/08/22 11:36 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 03/22/22 11:06 | 04/08/22 11:36 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.564 | | 0.247 | 0.250 | 5.00 | 0.332 | pCi/L | | 04/14/22 14:48 | 1 |

Client Sample ID: EB-3

Lab Sample ID: 180-135319-10

Date Collected: 03/16/22 11:15

Matrix: Water

Date Received: 03/17/22 09:15

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.0576 | U | 0.0624 | 0.0626 | 1.00 | 0.153 | pCi/L | 03/22/22 10:33 | 04/13/22 10:39 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.6 | | 40 - 110 | | | | | 03/22/22 10:33 | 04/13/22 10:39 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0183 | U * | 0.189 | 0.189 | 1.00 | 0.344 | pCi/L | 03/22/22 11:06 | 04/08/22 11:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.6 | | 40 - 110 | | | | | 03/22/22 11:06 | 04/08/22 11:37 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 03/22/22 11:06 | 04/08/22 11:37 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | -0.0760 | U | 0.199 | 0.199 | 5.00 | 0.344 | pCi/L | | 04/14/22 14:48 | 1 |

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Client Sample ID: FB-3

Lab Sample ID: 180-135319-11

Date Collected: 03/16/22 11:00

Matrix: Water

Date Received: 03/17/22 09:15

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0153 | U | 0.0792 | 0.0792 | 1.00 | 0.156 | pCi/L | 03/22/22 10:33 | 04/13/22 10:40 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 70.6 | | 40 - 110 | | | | | 03/22/22 10:33 | 04/13/22 10:40 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0191 | U * | 0.225 | 0.225 | 1.00 | 0.414 | pCi/L | 03/22/22 11:06 | 04/08/22 11:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 70.6 | | 40 - 110 | | | | | 03/22/22 11:06 | 04/08/22 11:37 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 03/22/22 11:06 | 04/08/22 11:37 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|----------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | -0.00380 | U | 0.239 | 0.239 | 5.00 | 0.414 | pCi/L | | 04/14/22 14:48 | 1 |

QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-556453/23-A
Matrix: Water
Analysis Batch: 560046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556453

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|------|-------|----------------|----------------|----------------|---------|
| | Result | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | 0.05665 | U | 0.0920 | 0.0921 | 1.00 | 0.161 | pCi/L | 03/22/22 09:48 | 04/13/22 08:34 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | | | Prepared | | Analyzed | Dil Fac |
| Ba Carrier | 101 | | 40 - 110 | | | | 03/22/22 09:48 | | 04/13/22 08:34 | 1 |

Lab Sample ID: LCS 160-556453/1-A
Matrix: Water
Analysis Batch: 560040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556453

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|-------------|---------------|----------|-----------------|------|-------|-------|------|-------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.3 | 10.96 | | 1.25 | 1.00 | 0.226 | pCi/L | 97 | 75 - 125 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | |
| Ba Carrier | 95.1 | | 40 - 110 | | | | | | |

Lab Sample ID: LCSD 160-556453/2-A
Matrix: Water
Analysis Batch: 560040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 556453

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total | RL | MDC | Unit | %Rec | %Rec Limits | RER | Limit |
|------------|-------------|----------------|-----------|-----------------|------|-------|-------|------|-------------|------|-------|
| | | | | Uncert. (2σ+/-) | | | | | | | |
| Radium-226 | 11.3 | 9.315 | | 1.11 | 1.00 | 0.235 | pCi/L | 82 | 75 - 125 | 0.69 | 1 |
| Carrier | LCSD %Yield | LCSD Qualifier | Limits | | | | | | | | |
| Ba Carrier | 92.3 | | 40 - 110 | | | | | | | | |

Lab Sample ID: MB 160-556462/16-A
Matrix: Water
Analysis Batch: 560040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556462

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|------|-------|----------------|----------------|----------------|---------|
| | Result | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | -0.008053 | U | 0.0679 | 0.0679 | 1.00 | 0.142 | pCi/L | 03/22/22 10:33 | 04/13/22 10:36 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | | | Prepared | | Analyzed | Dil Fac |
| Ba Carrier | 97.5 | | 40 - 110 | | | | 03/22/22 10:33 | | 04/13/22 10:36 | 1 |

Lab Sample ID: LCS 160-556462/1-A
Matrix: Water
Analysis Batch: 560046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556462

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|-------------|------------|----------|-----------------|------|-------|-------|------|-------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.3 | 9.821 | | 1.06 | 1.00 | 0.116 | pCi/L | 87 | 75 - 125 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-556462/1-A
Matrix: Water
Analysis Batch: 560046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556462

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|------------|---------------|------------------|----------|
| Ba Carrier | 97.0 | | 40 - 110 |

Lab Sample ID: LCSD 160-556462/2-A
Matrix: Water
Analysis Batch: 560046

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 556462

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec | | RER | RER |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|----------|------|-------|-----|
| | | | | | | | | | Limits | RER | Limit | |
| Radium-226 | 11.3 | 9.393 | | 1.02 | 1.00 | 0.102 | pCi/L | 83 | 75 - 125 | 0.21 | | 1 |

| Carrier | LCSD %Yield | LCSD Qualifier | Limits |
|------------|----------------|-------------------|----------|
| Ba Carrier | 101 | | 40 - 110 |

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-556460/23-A
Matrix: Water
Analysis Batch: 559797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556460

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | | Analyzed | Dil Fac |
|------------|--------------|-----------------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|----------|---------|
| | | | | | | | | Prepared | Analyzed | Dil Fac | |
| Radium-228 | 0.1584 | U | 0.201 | 0.202 | 1.00 | 0.334 | pCi/L | 03/22/22 10:30 | 04/11/22 12:27 | | 1 |

| Carrier | MB %Yield | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------------|-----------------|----------|----------------|----------------|---------|
| Ba Carrier | 101 | | 40 - 110 | 03/22/22 10:30 | 04/11/22 12:27 | 1 |
| Y Carrier | 84.1 | | 40 - 110 | 03/22/22 10:30 | 04/11/22 12:27 | 1 |

Lab Sample ID: LCS 160-556460/1-A
Matrix: Water
Analysis Batch: 559798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556460

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec | |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|----------|-----|
| | | | | | | | | | Limits | RER |
| Radium-228 | 0.872 | 0.7662 | | 0.284 | 1.00 | 0.371 | pCi/L | 88 | 75 - 125 | |

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|------------|---------------|------------------|----------|
| Ba Carrier | 95.1 | | 40 - 110 |
| Y Carrier | 82.2 | | 40 - 110 |

Lab Sample ID: LCSD 160-556460/2-A
Matrix: Water
Analysis Batch: 559798

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 556460

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec | | RER |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|----------|------|-------|
| | | | | | | | | | Limits | RER | Limit |
| Radium-228 | 0.872 | 0.9613 | | 0.295 | 1.00 | 0.342 | pCi/L | 110 | 75 - 125 | 0.34 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

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

Lab Sample ID: LCSD 160-556460/2-A
Matrix: Water
Analysis Batch: 559798

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 556460

| Carrier | LCSD | | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 92.3 | | 40 - 110 |
| Y Carrier | 82.6 | | 40 - 110 |

Lab Sample ID: MB 160-556470/16-A
Matrix: Water
Analysis Batch: 559296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556470

| Analyte | MB | | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| Radium-228 | -0.1246 | U | 0.217 | 0.217 | 1.00 | 0.408 | pCi/L | 03/22/22 11:06 | 04/08/22 11:42 | 1 |

| Carrier | MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| | %Yield | Qualifier | | | | |
| Ba Carrier | 97.5 | | 40 - 110 | 03/22/22 11:06 | 04/08/22 11:42 | 1 |
| Y Carrier | 82.2 | | 40 - 110 | 03/22/22 11:06 | 04/08/22 11:42 | 1 |

Lab Sample ID: LCS 160-556470/1-A
Matrix: Water
Analysis Batch: 559310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556470

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits |
|---------|----------------|---------------|-------------|-----------------------------|----|-----|------|------|----------------|
| | | | | | | | | | |

| Carrier | LCS | | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 97.0 | | 40 - 110 |
| Y Carrier | 85.2 | | 40 - 110 |

Lab Sample ID: LCSD 160-556470/2-A
Matrix: Water
Analysis Batch: 559310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 556470

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|---------|----------------|----------------|--------------|-----------------------------|----|-----|------|------|----------------|-----|--------------|
| | | | | | | | | | | | |

| Carrier | LCSD | | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 101 | | 40 - 110 |
| Y Carrier | 85.2 | | 40 - 110 |

QC Association Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-135319-2

Rad

Prep Batch: 556453

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 180-135319-1 | BAW-1 | Total/NA | Water | PrecSep-21 | |
| 180-135319-2 | BAW-2A | Total/NA | Water | PrecSep-21 | |
| 180-135319-3 | BAW-3 | Total/NA | Water | PrecSep-21 | |
| 180-135319-4 | BAW-4 | Total/NA | Water | PrecSep-21 | |
| 180-135319-5 | BAW-5 | Total/NA | Water | PrecSep-21 | |
| 180-135319-6 | BAW-7 | Total/NA | Water | PrecSep-21 | |
| 180-135319-7 | BAW-8 | Total/NA | Water | PrecSep-21 | |
| MB 160-556453/23-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-556453/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-556453/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

Prep Batch: 556460

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 180-135319-1 | BAW-1 | Total/NA | Water | PrecSep_0 | |
| 180-135319-2 | BAW-2A | Total/NA | Water | PrecSep_0 | |
| 180-135319-3 | BAW-3 | Total/NA | Water | PrecSep_0 | |
| 180-135319-4 | BAW-4 | Total/NA | Water | PrecSep_0 | |
| 180-135319-5 | BAW-5 | Total/NA | Water | PrecSep_0 | |
| 180-135319-6 | BAW-7 | Total/NA | Water | PrecSep_0 | |
| 180-135319-7 | BAW-8 | Total/NA | Water | PrecSep_0 | |
| MB 160-556460/23-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-556460/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-556460/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

Prep Batch: 556462

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 180-135319-8 | BAW-9 | Total/NA | Water | PrecSep-21 | |
| 180-135319-9 | DUP-01 | Total/NA | Water | PrecSep-21 | |
| 180-135319-10 | EB-3 | Total/NA | Water | PrecSep-21 | |
| 180-135319-11 | FB-3 | Total/NA | Water | PrecSep-21 | |
| MB 160-556462/16-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-556462/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-556462/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

Prep Batch: 556470

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 180-135319-8 | BAW-9 | Total/NA | Water | PrecSep_0 | |
| 180-135319-9 | DUP-01 | Total/NA | Water | PrecSep_0 | |
| 180-135319-10 | EB-3 | Total/NA | Water | PrecSep_0 | |
| 180-135319-11 | FB-3 | Total/NA | Water | PrecSep_0 | |
| MB 160-556470/16-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-556470/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-556470/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

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301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Environment Testing
 America

| | | | | | | | | | |
|--|--|--|--|---|--|---------------------------------|--|---|--|
| Client Information | | Sampler: <u>Brett Sikes / Phil Evers</u> | | Lab PM: Brown, Shali | | Carrier Tracking No(s): | | COC No: | |
| Client Contact: SCS Contacts | | Phone: <u>852 380 3458</u> | | E-Mail: shali.brown@eurofinset.com | | | | Page: <u>1-1</u> | |
| Company: SCS | | Address: 3535 Colonnade Pkwy Bin S 530 EC | | Due Date Requested: | | Analysis Requested | | Job #: | |
| City: Birmingham | | State, Zip: Alabama | | TAT Requested (days): | | | | Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) | |
| Phone: 205.992.6283 | | PO #: SCS10382606 | | Project #: 18020047 | | | | | |
| Email: SCS Contacts | | WO #: | | Project #: 18020047 | | | | | |
| Project Name: Plant Daniel Ash Pond B | | SSOW#: | | Project #: 18020047 | | | | | |
| Site: | | | | | | | | Other: | |
| Sample Identification | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | | Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air) | |
| | | | | | | | | Special Instructions/Note: | |
| BAW-1 | | 3/16/22 | | 0853 | | G W | | LOTT H263 | |
| BAW-2A | | | | 0948 | | | | COO258P32 | |
| BAW-3 | | | | 1052 | | | | | |
| BAW-4 | | | | 1258 | | | | | |
| BAW-5 | | | | 1159 | | | | | |
| BAW-7 | | | | 0752 | | | | | |
| BAW-6 BAW-8 | | | | 1235 | | | | | |
| BAW-7 BAW-9 | | | | 1325 | | | | | |
| Dup-01 | | | | 1135 | | | | | |
| EB-3 | | | | 1115 | | | | | |
| FD-3 | | 3/16/22 | | 1100 | | G W | | | |
| Possible Hazard Identification | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | <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: | | Date: | | Time: | | Method of Shipment: | | | |
| Relinquished by: <u>[Signature]</u> | | Date/Time: <u>3/16/22 1400</u> | | Company: <u>RDH</u> | | Received by: <u>[Signature]</u> | | Date/Time: <u>3/17/22 915</u> | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | |
| Relinquished by: | | Date/Time: | | Company: | | 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: | | | | | |



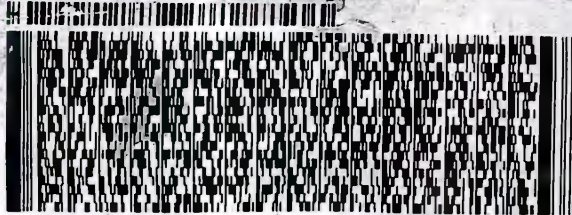
SHIP DATE: 16MAR22
ACTWT: 54.60 LB
CAD: 8994563/SSFE2300
DIMS: 24x12x14 IN
BILL THREE

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

TO EUROFINS TEST AMERICA
301 ALPHA DR
PITTSBURGH PA 15238

RT 98
10:30
0014
03.17
FZ

(412) 983-7068
REF:



FedEx 1 pcs
MPS# 0263 2709 4501 0014
THU - 17 MAR AA
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US
PIT

Uncorrected temp 4.5 °C
Thermometer ID 16
CF 0 Initials J
PT-WI-SR-001 effective 11/8/18

4823362 16Mar2022 MOBA 56DG5/EB02/C088



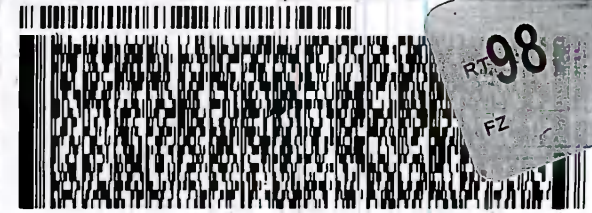
180-135319 Waybill

label here.

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

TO EUROFINS TEST AMERICA
301 ALPHA DR
PITTSBURGH PA 15238

(412) 983-7068
REF: DEPT:



1 of 4
TRK# 0201 2709 4500 9992
MASTER

THU - 17 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT

Uncorrected temp 3.4
Thermometer ID 16
CF -4 Initials J
PT-WI-SR-001 effective 11/8/18

Chain of Custody Record



| | | | |
|--|------------------------|---|---|
| Client Information (Sub Contract Lab) | | Lab PM: Brown, Shali | Carrier Tracking No(s): 180-457348.2 |
| Client Contact Shipping/Receiving | | E-Mail: Shali.Brown@Eurofins.com | Page: Page 2 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): 180-135319-2 | |
| Address: 13715 Rider Trail North, | | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: | |
| City: Earth City | State: MO, 63045 | 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) | PO #: | | |
| Email: | WO #: | | |
| Project Name: Plant Daniel Ash Pond B | Project #: 18020047 | | |
| Site: | SSON#: | | |
| Due Date Requested: 3/30/2022 | | Analysis Requested | |
| TAT Requested (days): | | Total Number of containers | |
| Field Filtered Sample (Yes or No) | | 9315_Ra226/PreSep_21 Radium 226 | |
| Perform MS/MSD (Yes or No) | | 9320_Ra226/PreSep_0 Standard Target List | |
| Matrix (W=water, S=solid, O=wastobill, BT=Tissue, A=Air) | | Ra226Ra228_GFPc | |
| Sample Type (C=Comp, G=grab) | Sample Time | Sample Date | Preservation Code: |
| Water | 11:15 Central | 3/16/22 | Water |
| Water | 11:00 Central | 3/16/22 | Water |
| <p>Sample Identification - Client ID (Lab ID)</p> <p>EB-3 (180-135319-10)</p> <p>FB-3 (180-135319-11)</p> | | | |
| <p>Special Instructions/Note:</p> | | | |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh 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 Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</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>Special Instructions/QC Requirements:</p> <p>Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months</p> | | | |
| <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> | | | |
| Empty Kit Relinquished by: | | Method of Shipment: | |
| Relinquished by: <i>[Signature]</i> | | Date/Time: | |
| Relinquished by: FED EX | | Date/Time: 3-18-22 17:00 | |
| Relinquished by: | | Date/Time: | |
| Relinquished by: | | Date/Time: | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Received by: <i>[Signature]</i> | |
| Custody Seal No.: | | Received by: Autumn R. Johnson | |
| Cooler Temperature(s) °C and Other Remarks: | | Date/Time: MAR 21 2022 | |
| | | Company: FEASTL | |



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-135319-2

Login Number: 135319

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

| 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: 180-135319-2

Login Number: 135319

List Source: Eurofins St. Louis

List Number: 2

List Creation: 03/21/22 12:45 PM

Creator: Johnson, Autumn R

| 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 | |



Low-Flow Test Report:

Test Date / Time: 3/16/2022 8:26:34 AM

Project: Daniel BAW

Operator Name: Brett Surles

| | | |
|--|--|--|
| Location Name: Daniel BAW-1 Well Diameter: 2 in Casing Type: PE Screen Length: 5 ft Top of Screen: 55.6 ft Total Depth: 60.6 ft Initial Depth to Water: 46.3 ft | Pump Type: QED Tubing Type: PE Pump Intake From TOC: 58.1 ft Estimated Total Volume Pumped: 10 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 800306 |
|--|--|--|

Test Notes:

Sample @0853

Weather Conditions:

Cloudy 65

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.2 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 10 | +/- 20 | +/- 0.2 | |
| 3/16/2022 8:26 AM | 00:00 | 5.28 pH | 18.85 °C | 36.15 µS/cm | 8.08 mg/L | 1.40 NTU | 259.8 mV | 46.30 ft | 400.00 ml/min |
| 3/16/2022 8:31 AM | 05:00 | 4.95 pH | 21.11 °C | 43.22 µS/cm | 4.04 mg/L | 2.16 NTU | 200.9 mV | 46.30 ft | 400.00 ml/min |
| 3/16/2022 8:36 AM | 10:00 | 4.93 pH | 21.12 °C | 43.77 µS/cm | 4.06 mg/L | 2.04 NTU | 251.0 mV | 46.30 ft | 400.00 ml/min |
| 3/16/2022 8:41 AM | 15:00 | 4.92 pH | 21.12 °C | 43.37 µS/cm | 4.08 mg/L | 1.87 NTU | 161.9 mV | 46.30 ft | 400.00 ml/min |
| 3/16/2022 8:46 AM | 20:00 | 4.92 pH | 21.13 °C | 43.32 µS/cm | 4.07 mg/L | 1.64 NTU | 151.0 mV | 46.30 ft | 400.00 ml/min |
| 3/16/2022 8:51 AM | 25:00 | 4.92 pH | 21.09 °C | 43.39 µS/cm | 4.10 mg/L | 1.47 NTU | 141.1 mV | 46.30 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 3/16/2022 9:22:49 AM

Project: Daniel BAW

Operator Name: Brett Surles

| | | |
|--|---|--|
| Location Name: Daniel BAW-2a Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 57.2 ft Total Depth: 67.2 ft | Pump Type: QED Tubing Type: PE Pump Intake From TOC: 62.2 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min | Instrument Used: Aqua TROLL 400 Serial Number: 800306 |
|--|---|--|

Test Notes:

Sample @0948

Weather Conditions:

Partly cloudy 63

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.2 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 10 | +/- 20 | +/- 0.2 | |
| 3/16/2022 9:22 AM | 00:00 | 6.20 pH | 18.70 °C | 71.54 µS/cm | 9.14 mg/L | 0.60 NTU | 134.4 mV | | 400.00 ml/min |
| 3/16/2022 9:27 AM | 05:00 | 5.03 pH | 20.11 °C | 60.94 µS/cm | 4.87 mg/L | 1.59 NTU | 126.0 mV | | 400.00 ml/min |
| 3/16/2022 9:32 AM | 10:00 | 4.93 pH | 20.55 °C | 55.20 µS/cm | 3.71 mg/L | 1.07 NTU | 176.4 mV | | 400.00 ml/min |
| 3/16/2022 9:37 AM | 15:00 | 4.92 pH | 20.75 °C | 52.52 µS/cm | 3.77 mg/L | 0.88 NTU | 120.5 mV | | 400.00 ml/min |
| 3/16/2022 9:42 AM | 20:00 | 4.91 pH | 20.59 °C | 51.86 µS/cm | 3.80 mg/L | 0.77 NTU | 115.9 mV | | 400.00 ml/min |
| 3/16/2022 9:47 AM | 25:00 | 4.91 pH | 20.64 °C | 51.98 µS/cm | 3.79 mg/L | 0.37 NTU | 113.3 mV | | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 3/16/2022 10:29:32 AM

Project: Daniel BAW

Operator Name: Brett Surles

| | | |
|--|---|--|
| Location Name: Daniel BAW-3 Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 58.4 ft Total Depth: 68.4 ft Initial Depth to Water: 57.59 ft | Pump Type: QED Tubing Type: PE Pump Intake From TOC: 63.4 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.01 ft | Instrument Used: Aqua TROLL 400 Serial Number: 800306 |
|--|---|--|

Test Notes:

Sample@1052 FB-3@1100

Weather Conditions:

Partly cloudy 65

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.2 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 10 | +/- 20 | +/- 0.2 | |
| 3/16/2022 10:29 AM | 00:00 | 5.52 pH | 19.66 °C | 34.45 µS/cm | 9.03 mg/L | 1.36 NTU | 148.5 mV | 57.60 ft | 400.00 ml/min |
| 3/16/2022 10:34 AM | 05:00 | 4.66 pH | 22.20 °C | 43.29 µS/cm | 1.16 mg/L | 2.77 NTU | 159.3 mV | 57.60 ft | 400.00 ml/min |
| 3/16/2022 10:39 AM | 10:00 | 4.64 pH | 22.51 °C | 43.56 µS/cm | 0.40 mg/L | 3.09 NTU | 147.3 mV | 57.60 ft | 400.00 ml/min |
| 3/16/2022 10:44 AM | 15:00 | 4.63 pH | 22.69 °C | 43.58 µS/cm | 0.38 mg/L | 3.62 NTU | 100.1 mV | 57.60 ft | 400.00 ml/min |
| 3/16/2022 10:49 AM | 20:00 | 4.64 pH | 22.60 °C | 43.74 µS/cm | 0.43 mg/L | 1.33 NTU | 139.6 mV | 57.60 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 3/16/2022 12:37:02 PM

Project: Daniel BAW

Operator Name: Brett Surles

| | | |
|--|---|--|
| Location Name: Daniel BAW-4 Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 59.9 ft Total Depth: 69.9 ft Initial Depth to Water: 53.02 ft | Pump Type: QED Tubing Type: PE Pump Intake From TOC: 64.9 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.23 ft | Instrument Used: Aqua TROLL 400 Serial Number: 800306 |
|--|---|--|

Test Notes:

Sample @1258

Weather Conditions:

Partly cloudy 70

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.2 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 10 | +/- 20 | +/- 0.2 | |
| 3/16/2022 12:37 PM | 00:00 | 6.09 pH | 22.00 °C | 107.00 µS/cm | 5.88 mg/L | 1.60 NTU | 31.2 mV | 53.25 ft | 400.00 ml/min |
| 3/16/2022 12:42 PM | 05:00 | 6.59 pH | 22.56 °C | 0.00 µS/cm | 8.63 mg/L | 3.92 NTU | 37.3 mV | 53.25 ft | 400.00 ml/min |
| 3/16/2022 12:47 PM | 10:00 | 5.55 pH | 23.15 °C | 95.82 µS/cm | 0.31 mg/L | 5.25 NTU | -71.9 mV | 53.25 ft | 400.00 ml/min |
| 3/16/2022 12:52 PM | 15:00 | 5.55 pH | 23.27 °C | 94.86 µS/cm | 0.26 mg/L | 2.13 NTU | -70.9 mV | 53.25 ft | 400.00 ml/min |
| 3/16/2022 12:57 PM | 20:00 | 5.56 pH | 22.91 °C | 97.05 µS/cm | 0.26 mg/L | 1.89 NTU | -76.3 mV | 53.25 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 3/16/2022 11:38:16 AM

Project: Daniel BAW

Operator Name: Brett Surles

| | | |
|---|--|--|
| Location Name: Daniel BAW-5 Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 59.1 ft Total Depth: 69.1 ft Initial Depth to Water: 54.3 ft | Pump Type: QED Tubing Type: PE Pump Intake From TOC: 64.1 m Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.03 ft | Instrument Used: Aqua TROLL 400 Serial Number: 800306 |
|---|--|--|

Test Notes:

Sample @1159, EB-3@1115

Weather Conditions:

Partly cloudy 66

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.2 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 10 | +/- 20 | +/- 0.2 | |
| 3/16/2022 11:38 AM | 00:00 | 6.20 pH | 22.22 °C | 195.71 µS/cm | 1.30 mg/L | 3.01 NTU | -44.7 mV | 54.33 ft | 400.00 ml/min |
| 3/16/2022 11:43 AM | 05:00 | 6.19 pH | 21.94 °C | 205.03 µS/cm | 0.48 mg/L | 1.12 NTU | -107.8 mV | 54.33 ft | 400.00 ml/min |
| 3/16/2022 11:48 AM | 10:00 | 6.19 pH | 21.93 °C | 206.18 µS/cm | 0.31 mg/L | 0.83 NTU | -64.0 mV | 54.33 ft | 400.00 ml/min |
| 3/16/2022 11:53 AM | 15:00 | 6.19 pH | 22.38 °C | 207.94 µS/cm | 0.27 mg/L | 0.62 NTU | -61.9 mV | 54.33 ft | 400.00 ml/min |
| 3/16/2022 11:58 AM | 20:00 | 6.20 pH | 22.49 °C | 207.40 µS/cm | 0.26 mg/L | 0.59 NTU | -60.6 mV | 54.33 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 3/16/2022 7:26:21 AM

Project: Daniel BAW

Operator Name: Brett Surles

| | | |
|---|--|--|
| Location Name: Daniel BAW-7 Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 50 ft Total Depth: 60 ft Initial Depth to Water: 52.5 ft | Pump Type: QED Tubing Type: PE Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.04 ft | Instrument Used: Aqua TROLL 400 Serial Number: 800306 |
|---|--|--|

Test Notes:

Sample@0752

Weather Conditions:

Cloudy 57

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.2 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 10 | +/- 20 | +/- 0.2 | |
| 3/16/2022 7:26 AM | 00:00 | 4.72 pH | 18.93 °C | 60.14 µS/cm | 2.01 mg/L | 9.26 NTU | 258.4 mV | 52.54 ft | 400.00 ml/min |
| 3/16/2022 7:31 AM | 05:00 | 4.78 pH | 19.21 °C | 59.65 µS/cm | 2.00 mg/L | 6.16 NTU | 345.6 mV | 52.54 ft | 400.00 ml/min |
| 3/16/2022 7:36 AM | 10:00 | 4.76 pH | 19.13 °C | 58.57 µS/cm | 1.75 mg/L | 3.75 NTU | 391.5 mV | 52.54 ft | 400.00 ml/min |
| 3/16/2022 7:41 AM | 15:00 | 4.75 pH | 19.08 °C | 58.14 µS/cm | 1.64 mg/L | 2.74 NTU | 437.5 mV | 52.54 ft | 400.00 ml/min |
| 3/16/2022 7:46 AM | 20:00 | 4.74 pH | 19.09 °C | 57.67 µS/cm | 1.54 mg/L | 1.89 NTU | 490.2 mV | 52.54 ft | 400.00 ml/min |
| 3/16/2022 7:51 AM | 25:00 | 4.75 pH | 19.22 °C | 57.03 µS/cm | 1.47 mg/L | 1.32 NTU | 361.8 mV | 52.54 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

Low-Flow Test Report:

Test Date / Time: 3/16/2022 12:11:39 PM

Project: Daniel BAW

Operator Name: Philip Evans

| | | |
|--|--|--|
| Location Name: Daniel BAW-8 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 58.7 ft Total Depth: 68.7 ft Initial Depth to Water: 56.52 ft | Pump Type: BP Tubing Type: Pe Pump Intake From TOC: 63.7 ft Estimated Total Volume Pumped: 8000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.04 ft | Instrument Used: Aqua TROLL 400 Serial Number: 817728 |
|--|--|--|

Test Notes:

Sample time @ 1235. Sunny 75. DUP-01 @ fake time 1135.

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 | +/- 20 | +/- 0.2 | |
| 3/16/2022 12:11 PM | 00:00 | 5.62 pH | 23.08 °C | 284.63 µS/cm | 0.30 mg/L | 1.05 NTU | 74.3 mV | 56.56 ft | 400.00 ml/min |
| 3/16/2022 12:16 PM | 05:00 | 5.68 pH | 23.78 °C | 289.16 µS/cm | 0.20 mg/L | 0.85 NTU | 48.8 mV | 56.56 ft | 400.00 ml/min |
| 3/16/2022 12:21 PM | 10:00 | 5.73 pH | 23.86 °C | 288.17 µS/cm | 0.17 mg/L | 0.78 NTU | 35.3 mV | 56.56 ft | 400.00 ml/min |
| 3/16/2022 12:26 PM | 15:00 | 5.78 pH | 24.06 °C | 287.33 µS/cm | 0.15 mg/L | 0.70 NTU | 24.6 mV | 56.56 ft | 400.00 ml/min |
| 3/16/2022 12:31 PM | 20:00 | 5.81 pH | 24.01 °C | 290.05 µS/cm | 0.13 mg/L | 0.63 NTU | 17.5 mV | 56.56 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--|
| BAW-8 | Sample time @ 1235. Sunny 75. DUP-01 @ fake time 1135. |

Low-Flow Test Report:

Test Date / Time: 3/16/2022 1:06:48 PM

Project: Daniel BAW

Operator Name: Philip Evans

| | | |
|---|---|--|
| Location Name: Daniel BAW-9 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 53.15 ft Total Depth: 63.15 ft Initial Depth to Water: 54.4 ft | Pump Type: BP Tubing Type: Pe Pump Intake From TOC: 58.15 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.08 ft | Instrument Used: Aqua TROLL 400 Serial Number: 817728 |
|---|---|--|

Test Notes:

Sample time @ 1325. Sunny 75.

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 | +/- 20 | +/- 0.2 | |
| 3/16/2022 1:06 PM | 00:00 | 6.07 pH | 23.53 °C | 313.49 µS/cm | 0.29 mg/L | 1.53 NTU | 41.1 mV | 54.48 ft | 400.00 ml/min |
| 3/16/2022 1:11 PM | 05:00 | 5.98 pH | 24.87 °C | 311.53 µS/cm | 0.16 mg/L | 0.83 NTU | 38.9 mV | 54.48 ft | 400.00 ml/min |
| 3/16/2022 1:16 PM | 10:00 | 5.96 pH | 24.84 °C | 311.24 µS/cm | 0.12 mg/L | 0.56 NTU | 39.8 mV | 54.48 ft | 400.00 ml/min |
| 3/16/2022 1:21 PM | 15:00 | 5.94 pH | 24.95 °C | 310.73 µS/cm | 0.10 mg/L | 0.54 NTU | 40.9 mV | 54.48 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|-------------------------------|
| BAW-9 | Sample time @ 1325. Sunny 75. |

2nd
Semi-Annual
Monitoring Event

ANALYTICAL REPORT

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

Laboratory Job ID: 180-145835-1

Client Project/Site: Plant Daniel Ash Pond B

For:

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

Attn: Robert (Trey) Singleton



Authorized for release by:

10/31/2022 4:06:17 PM

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

Shali.Brown@et.eurofinsus.com

LINKS

Review your project
results through



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 Daniel Ash Pond B

Job ID: 180-145835-1

Job ID: 180-145835-1

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-145835-1**

Receipt

The samples were received on 10/7/2022 1:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.2°C, 2.6°C and 3.0°C

HPLC/IC

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

Metals

Method 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-415670 and analytical batch 180-416345 were outside control limits for multiple analytes. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6020B: The post digestion spike % recovery for barium associated with batch 180-416345 was outside of control limits. The associated sample is: BAW-8 (180-145835-6).

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

General Chemistry

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 Daniel Ash Pond B

Job ID: 180-145835-1

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

Glossary

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Laboratory: Eurofins 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 | 06-27-22 * |
| California | State | 2891 | 04-30-23 |
| Connecticut | State | PH-0688 | 09-30-22 * |
| Florida | NELAP | E871008 | 06-30-23 |
| Georgia | State | PA 02-00416 | 04-30-23 |
| Illinois | NELAP | 004375 | 06-30-23 |
| Kansas | NELAP | E-10350 | 03-31-23 |
| Kentucky (UST) | State | 162013 | 04-30-23 |
| Kentucky (WW) | State | KY98043 | 12-31-22 |
| Louisiana | NELAP | 04041 | 06-30-22 * |
| Louisiana (All) | NELAP | 04041 | 06-30-23 |
| Maine | State | PA00164 | 03-06-24 |
| Minnesota | NELAP | 042-999-482 | 12-31-22 |
| New Hampshire | NELAP | 2030 | 04-04-23 |
| New Jersey | NELAP | PA005 | 06-30-23 |
| New York | NELAP | 11182 | 04-01-23 |
| North Carolina (WW/SW) | State | 434 | 12-31-22 |
| North Dakota | State | R-227 | 04-30-23 |
| Oregon | NELAP | PA-2151 | 02-07-23 |
| Pennsylvania | NELAP | 02-00416 | 04-30-23 |
| Rhode Island | State | LAO00362 | 12-31-22 |
| South Carolina | State | 89014 | 04-20-23 |
| Texas | NELAP | T104704528 | 03-31-23 |
| USDA | US Federal Programs | P330-16-00211 | 06-21-24 |
| Utah | NELAP | PA001462019-8 | 05-31-23 |
| Virginia | NELAP | 10043 | 09-14-23 |
| West Virginia DEP | State | 142 | 01-31-23 |
| Wisconsin | State | 998027800 | 08-31-23 |

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



Sample Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 180-145835-1 | BAW-1 | Water | 10/05/22 17:14 | 10/07/22 13:14 |
| 180-145835-2 | BAW-3 | Water | 10/05/22 18:20 | 10/07/22 13:14 |
| 180-145835-3 | BAW-4 | Water | 10/05/22 15:10 | 10/07/22 13:14 |
| 180-145835-4 | BAW-5 | Water | 10/06/22 11:23 | 10/07/22 13:14 |
| 180-145835-5 | BAW-7 | Water | 10/06/22 12:07 | 10/07/22 13:14 |
| 180-145835-6 | BAW-8 | Water | 10/06/22 10:02 | 10/07/22 13:14 |
| 180-145835-7 | BAW-9 | Water | 10/06/22 08:36 | 10/07/22 13:14 |
| 180-145835-8 | DUP-03 | Water | 10/05/22 14:10 | 10/07/22 13:14 |
| 180-145835-9 | EB-03 | Water | 10/06/22 08:55 | 10/07/22 13:14 |
| 180-145835-10 | DUP-04 | Water | 10/06/22 11:07 | 10/07/22 13:14 |
| 180-145835-11 | FB-03 | Water | 10/06/22 09:31 | 10/07/22 13:14 |

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

Method Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

| Method | Method Description | Protocol | Laboratory |
|-----------|--|----------|------------|
| EPA 9056A | Anions, Ion Chromatography | SW846 | EET PIT |
| EPA 6020B | Metals (ICP/MS) | SW846 | EET PIT |
| EPA 7470A | Mercury (CVAA) | SW846 | EET PIT |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | EET PIT |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | EET PIT |
| 7470A | Preparation, Mercury | SW846 | EET PIT |

Protocol References:

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

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

Laboratory References:

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



Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Client Sample ID: BAW-1

Lab Sample ID: 180-145835-1

Date Collected: 10/05/22 17:14

Matrix: Water

Date Received: 10/07/22 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 414596 | 10/10/22 14:28 | SNL | EET PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415670 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416345 | 10/26/22 18:19 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 414695 | 10/11/22 11:45 | HCY | EET PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 414877 | 10/12/22 15:02 | SNR | EET PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 414740 | 10/11/22 14:25 | LWM | EET PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-3

Lab Sample ID: 180-145835-2

Date Collected: 10/05/22 18:20

Matrix: Water

Date Received: 10/07/22 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 414596 | 10/10/22 15:13 | SNL | EET PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415670 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416345 | 10/26/22 18:22 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 414695 | 10/11/22 11:45 | HCY | EET PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 414877 | 10/12/22 15:03 | SNR | EET PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 414740 | 10/11/22 14:25 | LWM | EET PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-4

Lab Sample ID: 180-145835-3

Date Collected: 10/05/22 15:10

Matrix: Water

Date Received: 10/07/22 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 414596 | 10/10/22 15:28 | SNL | EET PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415670 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416345 | 10/26/22 18:26 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 414695 | 10/11/22 11:45 | HCY | EET PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 414877 | 10/12/22 15:07 | SNR | EET PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 414747 | 10/11/22 15:42 | LWM | EET PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Client Sample ID: BAW-5

Lab Sample ID: 180-145835-4

Date Collected: 10/06/22 11:23

Matrix: Water

Date Received: 10/07/22 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 414596 | 10/10/22 15:43 | SNL | EET PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415670 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416345 | 10/26/22 18:37 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 414695 | 10/11/22 11:45 | HCY | EET PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 414877 | 10/12/22 15:13 | SNR | EET PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 414950 | 10/13/22 10:01 | LWM | EET PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-7

Lab Sample ID: 180-145835-5

Date Collected: 10/06/22 12:07

Matrix: Water

Date Received: 10/07/22 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 414596 | 10/10/22 15:58 | SNL | EET PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415670 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416345 | 10/26/22 18:40 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 414695 | 10/11/22 11:45 | HCY | EET PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 414877 | 10/12/22 15:14 | SNR | EET PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 414950 | 10/13/22 10:01 | LWM | EET PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-8

Lab Sample ID: 180-145835-6

Date Collected: 10/06/22 10:02

Matrix: Water

Date Received: 10/07/22 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 9056A | | 1 | | | 414596 | 10/10/22 16:13 | SNL | EET PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415670 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416345 | 10/26/22 18:44 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 414695 | 10/11/22 11:45 | HCY | EET PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 414877 | 10/12/22 15:15 | SNR | EET PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 414950 | 10/13/22 10:01 | LWM | EET PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Client Sample ID: BAW-9
Date Collected: 10/06/22 08:36
Date Received: 10/07/22 13:14

Lab Sample ID: 180-145835-7
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 | EPA 9056A | | 1 | | | 414596 | 10/10/22 16:57 | SNL | EET PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415672 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416064 | 10/22/22 17:10 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415672 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416090 | 10/22/22 17:10 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 414695 | 10/11/22 11:45 | HCY | EET PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 414877 | 10/12/22 15:16 | SNR | EET PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 414950 | 10/13/22 10:01 | LWM | EET PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: DUP-03
Date Collected: 10/05/22 14:10
Date Received: 10/07/22 13:14

Lab Sample ID: 180-145835-8
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 | EPA 9056A | | 1 | | | 414596 | 10/10/22 17:12 | SNL | EET PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415672 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416064 | 10/22/22 17:14 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415672 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416090 | 10/22/22 17:14 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 414695 | 10/11/22 11:45 | HCY | EET PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 414877 | 10/12/22 15:08 | SNR | EET PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 414747 | 10/11/22 15:42 | LWM | EET PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: EB-03
Date Collected: 10/06/22 08:55
Date Received: 10/07/22 13:14

Lab Sample ID: 180-145835-9
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 | EPA 9056A | | 1 | | | 414596 | 10/10/22 17:27 | SNL | EET PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415672 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416064 | 10/22/22 17:18 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415672 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416090 | 10/22/22 17:18 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Client Sample ID: EB-03

Date Collected: 10/06/22 08:55

Date Received: 10/07/22 13:14

Lab Sample ID: 180-145835-9

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 | 7470A | | | 25 mL | 25 mL | 414695 | 10/11/22 11:45 | HCY | EET PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 414877 | 10/12/22 15:21 | SNR | EET PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 414950 | 10/13/22 10:01 | LWM | EET PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: DUP-04

Date Collected: 10/06/22 11:07

Date Received: 10/07/22 13:14

Lab Sample ID: 180-145835-10

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 | EPA 9056A | | 1 | | | 414596 | 10/10/22 17:56 | SNL | EET PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415672 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416064 | 10/22/22 17:21 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415672 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416090 | 10/22/22 17:21 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 414695 | 10/11/22 11:45 | HCY | EET PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 414877 | 10/12/22 15:22 | SNR | EET PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 414950 | 10/13/22 10:01 | LWM | EET PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: FB-03

Date Collected: 10/06/22 09:31

Date Received: 10/07/22 13:14

Lab Sample ID: 180-145835-11

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 | EPA 9056A | | 1 | | | 414596 | 10/10/22 17:42 | SNL | EET PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415672 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416064 | 10/22/22 17:25 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 25 mL | 25 mL | 415672 | 10/20/22 11:45 | HCY | EET PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 416090 | 10/22/22 17:25 | RSK | EET PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 414695 | 10/11/22 11:45 | HCY | EET PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 414877 | 10/12/22 15:23 | SNR | EET PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 414950 | 10/13/22 10:01 | LWM | EET PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Laboratory References:

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

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Analyst References:

Lab: EET PIT

Batch Type: Prep

HCY = Harrison Yaeger

Batch Type: Analysis

LWM = Leslie McIntire

RSK = Robert Kurtz

SNL = Sean Lordo

SNR = Sabra Richart

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Client Sample ID: BAW-1

Lab Sample ID: 180-145835-1

Date Collected: 10/05/22 17:14

Matrix: Water

Date Received: 10/07/22 13:14

Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 6.75 | | 1.00 | 0.713 | mg/L | | | 10/10/22 14:28 | 1 |
| Fluoride | <0.0260 | | 0.100 | 0.0260 | mg/L | | | 10/10/22 14:28 | 1 |
| Sulfate | 1.34 | | 1.00 | 0.756 | mg/L | | | 10/10/22 14:28 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |
| Barium | 0.0512 | | 0.0100 | 0.00314 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |
| Boron | <0.0601 | | 0.0800 | 0.0601 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |
| Calcium | 1.42 | | 0.500 | 0.127 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |
| Cobalt | 0.00200 | | 0.000500 | 0.000261 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |
| Lithium | <0.000831 | | 0.00500 | 0.000831 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 10/20/22 11:45 | 10/26/22 18:19 | 1 |

Method: SW846 EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 10/11/22 11:45 | 10/12/22 15:02 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 30.0 | | 10.0 | 10.0 | mg/L | | | 10/11/22 14:25 | 1 |

Client Sample ID: BAW-3

Lab Sample ID: 180-145835-2

Date Collected: 10/05/22 18:20

Matrix: Water

Date Received: 10/07/22 13:14

Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 6.04 | | 1.00 | 0.713 | mg/L | | | 10/10/22 15:13 | 1 |
| Fluoride | <0.0260 | | 0.100 | 0.0260 | mg/L | | | 10/10/22 15:13 | 1 |
| Sulfate | 6.07 | | 1.00 | 0.756 | mg/L | | | 10/10/22 15:13 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |
| Barium | 0.0415 | | 0.0100 | 0.00314 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |
| Boron | <0.0601 | | 0.0800 | 0.0601 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |
| Cadmium | 0.000379 J | | 0.00100 | 0.000217 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |
| Calcium | 0.647 | | 0.500 | 0.127 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |
| Chromium | 0.0191 | | 0.00200 | 0.00153 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |
| Cobalt | 0.00821 | | 0.000500 | 0.000261 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |

Eurofins Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Client Sample ID: BAW-3

Date Collected: 10/05/22 18:20

Date Received: 10/07/22 13:14

Lab Sample ID: 180-145835-2

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Lithium | 0.00322 | J | 0.00500 | 0.000831 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 10/20/22 11:45 | 10/26/22 18:22 | 1 |

Method: SW846 EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 10/11/22 11:45 | 10/12/22 15:03 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 32.0 | | 10.0 | 10.0 | mg/L | | | 10/11/22 14:25 | 1 |

Client Sample ID: BAW-4

Date Collected: 10/05/22 15:10

Date Received: 10/07/22 13:14

Lab Sample ID: 180-145835-3

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 8.84 | | 1.00 | 0.713 | mg/L | | | 10/10/22 15:28 | 1 |
| Fluoride | 0.0322 | J | 0.100 | 0.0260 | mg/L | | | 10/10/22 15:28 | 1 |
| Sulfate | 4.12 | | 1.00 | 0.756 | mg/L | | | 10/10/22 15:28 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |
| Arsenic | 0.00467 | | 0.00100 | 0.000282 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |
| Barium | 0.0248 | | 0.0100 | 0.00314 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |
| Boron | 0.0714 | J | 0.0800 | 0.0601 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |
| Calcium | 5.81 | | 0.500 | 0.127 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |
| Cobalt | 0.00121 | | 0.000500 | 0.000261 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |
| Lithium | 0.00676 | | 0.00500 | 0.000831 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |
| Molybdenum | 0.000939 | J | 0.00500 | 0.000610 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 10/20/22 11:45 | 10/26/22 18:26 | 1 |

Method: SW846 EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 10/11/22 11:45 | 10/12/22 15:07 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 52.0 | | 10.0 | 10.0 | mg/L | | | 10/11/22 15:42 | 1 |

Eurofins Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Client Sample ID: BAW-5

Lab Sample ID: 180-145835-4

Date Collected: 10/06/22 11:23

Matrix: Water

Date Received: 10/07/22 13:14

Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 9.04 | | 1.00 | 0.713 | mg/L | | | 10/10/22 15:43 | 1 |
| Fluoride | 0.0972 | J | 0.100 | 0.0260 | mg/L | | | 10/10/22 15:43 | 1 |
| Sulfate | 19.5 | | 1.00 | 0.756 | mg/L | | | 10/10/22 15:43 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |
| Arsenic | 0.0108 | | 0.00100 | 0.000282 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |
| Barium | 0.0747 | | 0.0100 | 0.00314 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |
| Boron | 0.631 | | 0.0800 | 0.0601 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |
| Calcium | 28.2 | | 0.500 | 0.127 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |
| Cobalt | 0.00143 | | 0.000500 | 0.000261 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |
| Lithium | 0.0534 | | 0.00500 | 0.000831 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |
| Molybdenum | 0.00424 | J | 0.00500 | 0.000610 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 10/20/22 11:45 | 10/26/22 18:37 | 1 |

Method: SW846 EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 10/11/22 11:45 | 10/12/22 15:13 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 155 | | 10.0 | 10.0 | mg/L | | | 10/13/22 10:01 | 1 |

Client Sample ID: BAW-7

Lab Sample ID: 180-145835-5

Date Collected: 10/06/22 12:07

Matrix: Water

Date Received: 10/07/22 13:14

Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 12.7 | | 1.00 | 0.713 | mg/L | | | 10/10/22 15:58 | 1 |
| Fluoride | <0.0260 | | 0.100 | 0.0260 | mg/L | | | 10/10/22 15:58 | 1 |
| Sulfate | 61.4 | | 1.00 | 0.756 | mg/L | | | 10/10/22 15:58 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |
| Barium | 0.0937 | | 0.0100 | 0.00314 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |
| Boron | 1.82 | | 0.0800 | 0.0601 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |
| Calcium | 4.84 | | 0.500 | 0.127 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |
| Cobalt | 0.00548 | | 0.000500 | 0.000261 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |

Eurofins Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Client Sample ID: BAW-7

Date Collected: 10/06/22 12:07

Date Received: 10/07/22 13:14

Lab Sample ID: 180-145835-5

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Lithium | 0.0123 | | 0.00500 | 0.000831 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 10/20/22 11:45 | 10/26/22 18:40 | 1 |

Method: SW846 EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 10/11/22 11:45 | 10/12/22 15:14 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 135 | | 10.0 | 10.0 | mg/L | | | 10/13/22 10:01 | 1 |

Client Sample ID: BAW-8

Date Collected: 10/06/22 10:02

Date Received: 10/07/22 13:14

Lab Sample ID: 180-145835-6

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 13.9 | | 1.00 | 0.713 | mg/L | | | 10/10/22 16:13 | 1 |
| Fluoride | 0.0595 | J | 0.100 | 0.0260 | mg/L | | | 10/10/22 16:13 | 1 |
| Sulfate | 41.5 | | 1.00 | 0.756 | mg/L | | | 10/10/22 16:13 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |
| Arsenic | 0.00716 | | 0.00100 | 0.000282 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |
| Barium | 0.0695 | | 0.0100 | 0.00314 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |
| Boron | 0.960 | | 0.0800 | 0.0601 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |
| Calcium | 22.2 | F1 | 0.500 | 0.127 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |
| Cobalt | 0.0139 | | 0.000500 | 0.000261 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |
| Lithium | 0.0175 | | 0.00500 | 0.000831 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |
| Molybdenum | 0.00504 | | 0.00500 | 0.000610 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 10/20/22 11:45 | 10/26/22 18:44 | 1 |

Method: SW846 EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 10/11/22 11:45 | 10/12/22 15:15 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 345 | | 10.0 | 10.0 | mg/L | | | 10/13/22 10:01 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Client Sample ID: BAW-9

Lab Sample ID: 180-145835-7

Date Collected: 10/06/22 08:36

Matrix: Water

Date Received: 10/07/22 13:14

Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 15.2 | | 1.00 | 0.713 | mg/L | | | 10/10/22 16:57 | 1 |
| Fluoride | 0.0579 | J | 0.100 | 0.0260 | mg/L | | | 10/10/22 16:57 | 1 |
| Sulfate | 43.7 | | 1.00 | 0.756 | mg/L | | | 10/10/22 16:57 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |
| Arsenic | 0.00512 | | 0.00100 | 0.000282 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |
| Barium | 0.0703 | | 0.0100 | 0.00314 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |
| Boron | 0.786 | | 0.0800 | 0.0601 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |
| Calcium | 16.3 | | 0.500 | 0.127 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |
| Chromium | 0.00163 | J | 0.00200 | 0.00153 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |
| Cobalt | 0.0255 | | 0.000500 | 0.000261 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |
| Lithium | 0.0414 | | 0.00500 | 0.000831 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |
| Molybdenum | 0.00376 | J | 0.00500 | 0.000610 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 10/20/22 11:45 | 10/22/22 17:10 | 1 |

Method: SW846 EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 10/11/22 11:45 | 10/12/22 15:16 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 223 | | 10.0 | 10.0 | mg/L | | | 10/13/22 10:01 | 1 |

Client Sample ID: DUP-03

Lab Sample ID: 180-145835-8

Date Collected: 10/05/22 14:10

Matrix: Water

Date Received: 10/07/22 13:14

Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 8.28 | | 1.00 | 0.713 | mg/L | | | 10/10/22 17:12 | 1 |
| Fluoride | 0.0284 | J | 0.100 | 0.0260 | mg/L | | | 10/10/22 17:12 | 1 |
| Sulfate | 3.78 | | 1.00 | 0.756 | mg/L | | | 10/10/22 17:12 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |
| Arsenic | 0.00472 | | 0.00100 | 0.000282 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |
| Barium | 0.0255 | | 0.0100 | 0.00314 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |
| Boron | 0.132 | | 0.0800 | 0.0601 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |
| Calcium | 5.64 | | 0.500 | 0.127 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |
| Cobalt | 0.00120 | | 0.000500 | 0.000261 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Client Sample ID: DUP-03

Lab Sample ID: 180-145835-8

Date Collected: 10/05/22 14:10

Matrix: Water

Date Received: 10/07/22 13:14

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Lithium | 0.00757 | | 0.00500 | 0.000831 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |
| Molybdenum | 0.00108 | J | 0.00500 | 0.000610 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 10/20/22 11:45 | 10/22/22 17:14 | 1 |

Method: SW846 EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 10/11/22 11:45 | 10/12/22 15:08 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 60.0 | | 10.0 | 10.0 | mg/L | | | 10/11/22 15:42 | 1 |

Client Sample ID: EB-03

Lab Sample ID: 180-145835-9

Date Collected: 10/06/22 08:55

Matrix: Water

Date Received: 10/07/22 13:14

Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | <0.713 | | 1.00 | 0.713 | mg/L | | | 10/10/22 17:27 | 1 |
| Fluoride | <0.0260 | | 0.100 | 0.0260 | mg/L | | | 10/10/22 17:27 | 1 |
| Sulfate | <0.756 | | 1.00 | 0.756 | mg/L | | | 10/10/22 17:27 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |
| Barium | <0.00314 | | 0.0100 | 0.00314 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |
| Boron | <0.0601 | | 0.0800 | 0.0601 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |
| Calcium | <0.127 | | 0.500 | 0.127 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |
| Cobalt | <0.000261 | | 0.000500 | 0.000261 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |
| Lithium | <0.000831 | | 0.00500 | 0.000831 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 10/20/22 11:45 | 10/22/22 17:18 | 1 |

Method: SW846 EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 10/11/22 11:45 | 10/12/22 15:21 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | <10.0 | | 10.0 | 10.0 | mg/L | | | 10/13/22 10:01 | 1 |

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Client Sample ID: DUP-04

Lab Sample ID: 180-145835-10

Date Collected: 10/06/22 11:07

Matrix: Water

Date Received: 10/07/22 13:14

Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | 12.0 | | 1.00 | 0.713 | mg/L | | | 10/10/22 17:56 | 1 |
| Fluoride | <0.0260 | | 0.100 | 0.0260 | mg/L | | | 10/10/22 17:56 | 1 |
| Sulfate | 57.4 | | 1.00 | 0.756 | mg/L | | | 10/10/22 17:56 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |
| Barium | 0.103 | | 0.0100 | 0.00314 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |
| Boron | 2.01 | | 0.0800 | 0.0601 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |
| Calcium | 5.19 | | 0.500 | 0.127 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |
| Cobalt | 0.00566 | | 0.000500 | 0.000261 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |
| Lithium | 0.0143 | | 0.00500 | 0.000831 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 10/20/22 11:45 | 10/22/22 17:21 | 1 |

Method: SW846 EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 10/11/22 11:45 | 10/12/22 15:22 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | 134 | | 10.0 | 10.0 | mg/L | | | 10/13/22 10:01 | 1 |

Client Sample ID: FB-03

Lab Sample ID: 180-145835-11

Date Collected: 10/06/22 09:31

Matrix: Water

Date Received: 10/07/22 13:14

Method: SW846 EPA 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | <0.713 | | 1.00 | 0.713 | mg/L | | | 10/10/22 17:42 | 1 |
| Fluoride | <0.0260 | | 0.100 | 0.0260 | mg/L | | | 10/10/22 17:42 | 1 |
| Sulfate | <0.756 | | 1.00 | 0.756 | mg/L | | | 10/10/22 17:42 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |
| Barium | 0.00634 | J | 0.0100 | 0.00314 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |
| Boron | 0.107 | | 0.0800 | 0.0601 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |
| Calcium | 0.128 | J | 0.500 | 0.127 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |
| Cobalt | <0.000261 | | 0.000500 | 0.000261 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Client Sample ID: FB-03

Lab Sample ID: 180-145835-11

Date Collected: 10/06/22 09:31

Matrix: Water

Date Received: 10/07/22 13:14

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Lithium | <0.000831 | | 0.00500 | 0.000831 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 10/20/22 11:45 | 10/22/22 17:25 | 1 |

Method: SW846 EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 10/11/22 11:45 | 10/12/22 15:23 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids (SM 2540C) | <10.0 | | 10.0 | 10.0 | mg/L | | | 10/13/22 10:01 | 1 |

QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Method: EPA 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 180-414596/6
Matrix: Water
Analysis Batch: 414596

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Chloride | <0.713 | | 1.00 | 0.713 | mg/L | | | 10/10/22 12:47 | 1 |
| Fluoride | <0.0260 | | 0.100 | 0.0260 | mg/L | | | 10/10/22 12:47 | 1 |
| Sulfate | <0.756 | | 1.00 | 0.756 | mg/L | | | 10/10/22 12:47 | 1 |

Lab Sample ID: LCS 180-414596/7
Matrix: Water
Analysis Batch: 414596

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 | 45.49 | | mg/L | | 91 | 80 - 120 |
| Fluoride | 2.50 | 2.449 | | mg/L | | 98 | 80 - 120 |
| Sulfate | 50.0 | 45.28 | | mg/L | | 91 | 80 - 120 |

Lab Sample ID: 180-145835-1 MS
Matrix: Water
Analysis Batch: 414596

Client Sample ID: BAW-1
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 6.75 | | 50.0 | 51.82 | | mg/L | | 90 | 80 - 120 |
| Fluoride | <0.0260 | | 2.50 | 2.395 | | mg/L | | 96 | 80 - 120 |
| Sulfate | 1.34 | | 50.0 | 47.61 | | mg/L | | 93 | 80 - 120 |

Lab Sample ID: 180-145835-1 MSD
Matrix: Water
Analysis Batch: 414596

Client Sample ID: BAW-1
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 6.75 | | 50.0 | 57.97 | | mg/L | | 102 | 80 - 120 | 11 | 15 |
| Fluoride | <0.0260 | | 2.50 | 2.691 | | mg/L | | 108 | 80 - 120 | 12 | 15 |
| Sulfate | 1.34 | | 50.0 | 53.37 | | mg/L | | 104 | 80 - 120 | 11 | 15 |

Lab Sample ID: 180-145835-10 MS
Matrix: Water
Analysis Batch: 414596

Client Sample ID: DUP-04
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 12.0 | | 50.0 | 63.07 | | mg/L | | 102 | 80 - 120 |
| Fluoride | <0.0260 | | 2.50 | 2.675 | | mg/L | | 107 | 80 - 120 |
| Sulfate | 57.4 | | 50.0 | 113.3 | | mg/L | | 112 | 80 - 120 |

Lab Sample ID: 180-145835-10 MSD
Matrix: Water
Analysis Batch: 414596

Client Sample ID: DUP-04
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 12.0 | | 50.0 | 57.54 | | mg/L | | 91 | 80 - 120 | 9 | 15 |
| Fluoride | <0.0260 | | 2.50 | 2.437 | | mg/L | | 97 | 80 - 120 | 9 | 15 |
| Sulfate | 57.4 | | 50.0 | 102.5 | | mg/L | | 90 | 80 - 120 | 10 | 15 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

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

Lab Sample ID: MB 180-415670/1-A
Matrix: Water
Analysis Batch: 416345

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 415670

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |
| Barium | <0.00314 | | 0.0100 | 0.00314 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |
| Boron | <0.0601 | | 0.0800 | 0.0601 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |
| Calcium | <0.127 | | 0.500 | 0.127 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |
| Cobalt | <0.000261 | | 0.000500 | 0.000261 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |
| Lithium | <0.000831 | | 0.00500 | 0.000831 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 10/20/22 11:45 | 10/26/22 17:17 | 1 |

Lab Sample ID: LCS 180-415670/2-A
Matrix: Water
Analysis Batch: 416345

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 415670

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Antimony | 0.250 | 0.2658 | | mg/L | | 106 | 80 - 120 |
| Arsenic | 1.00 | 1.001 | | mg/L | | 100 | 80 - 120 |
| Barium | 1.00 | 1.010 | | mg/L | | 101 | 80 - 120 |
| Beryllium | 0.500 | 0.5149 | | mg/L | | 103 | 80 - 120 |
| Boron | 1.25 | 1.171 | | mg/L | | 94 | 80 - 120 |
| Cadmium | 0.500 | 0.5209 | | mg/L | | 104 | 80 - 120 |
| Calcium | 25.0 | 29.01 | | mg/L | | 116 | 80 - 120 |
| Chromium | 0.500 | 0.5194 | | mg/L | | 104 | 80 - 120 |
| Cobalt | 0.500 | 0.5112 | | mg/L | | 102 | 80 - 120 |
| Lead | 0.500 | 0.5170 | | mg/L | | 103 | 80 - 120 |
| Lithium | 0.500 | 0.4892 | | mg/L | | 98 | 80 - 120 |
| Molybdenum | 0.500 | 0.5204 | | mg/L | | 104 | 80 - 120 |
| Selenium | 1.00 | 0.9688 | | mg/L | | 97 | 80 - 120 |
| Thallium | 1.00 | 1.065 | | mg/L | | 107 | 80 - 120 |

Lab Sample ID: 180-145835-6 MS
Matrix: Water
Analysis Batch: 416345

Client Sample ID: BAW-8
Prep Type: Total Recoverable
Prep Batch: 415670

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Antimony | <0.000506 | | 0.250 | 0.3108 | | mg/L | | 124 | 75 - 125 |
| Arsenic | 0.00716 | | 1.00 | 1.178 | | mg/L | | 117 | 75 - 125 |
| Barium | 0.0695 | | 1.00 | 1.262 | | mg/L | | 119 | 75 - 125 |
| Beryllium | <0.000274 | | 0.500 | 0.5987 | | mg/L | | 120 | 75 - 125 |
| Boron | 0.960 | | 1.25 | 2.436 | | mg/L | | 118 | 75 - 125 |
| Cadmium | <0.000217 | | 0.500 | 0.6076 | | mg/L | | 122 | 75 - 125 |
| Calcium | 22.2 | F1 | 25.0 | 59.93 | F1 | mg/L | | 151 | 75 - 125 |
| Chromium | <0.00153 | | 0.500 | 0.5565 | | mg/L | | 111 | 75 - 125 |
| Cobalt | 0.0139 | | 0.500 | 0.6109 | | mg/L | | 119 | 75 - 125 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

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

Lab Sample ID: 180-145835-6 MS
Matrix: Water
Analysis Batch: 416345

Client Sample ID: BAW-8
Prep Type: Total Recoverable
Prep Batch: 415670

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Lead | <0.000167 | | 0.500 | 0.6041 | | mg/L | | 121 | 75 - 125 |
| Lithium | 0.0175 | | 0.500 | 0.6033 | | mg/L | | 117 | 75 - 125 |
| Molybdenum | 0.00504 | | 0.500 | 0.6110 | | mg/L | | 121 | 75 - 125 |
| Selenium | <0.000739 | | 1.00 | 1.024 | | mg/L | | 102 | 75 - 125 |
| Thallium | <0.000472 | | 1.00 | 1.244 | | mg/L | | 124 | 75 - 125 |

Lab Sample ID: 180-145835-6 MSD
Matrix: Water
Analysis Batch: 416345

Client Sample ID: BAW-8
Prep Type: Total Recoverable
Prep Batch: 415670

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Antimony | <0.000506 | | 0.250 | 0.3082 | | mg/L | | 123 | 75 - 125 | 1 | 20 |
| Arsenic | 0.00716 | | 1.00 | 1.176 | | mg/L | | 117 | 75 - 125 | 0 | 20 |
| Barium | 0.0695 | | 1.00 | 1.244 | | mg/L | | 117 | 75 - 125 | 1 | 20 |
| Beryllium | <0.000274 | | 0.500 | 0.5869 | | mg/L | | 117 | 75 - 125 | 2 | 20 |
| Boron | 0.960 | | 1.25 | 2.436 | | mg/L | | 118 | 75 - 125 | 0 | 20 |
| Cadmium | <0.000217 | | 0.500 | 0.5982 | | mg/L | | 120 | 75 - 125 | 2 | 20 |
| Calcium | 22.2 | F1 | 25.0 | 59.91 | F1 | mg/L | | 151 | 75 - 125 | 0 | 20 |
| Chromium | <0.00153 | | 0.500 | 0.5580 | | mg/L | | 112 | 75 - 125 | 0 | 20 |
| Cobalt | 0.0139 | | 0.500 | 0.6073 | | mg/L | | 119 | 75 - 125 | 1 | 20 |
| Lead | <0.000167 | | 0.500 | 0.5999 | | mg/L | | 120 | 75 - 125 | 1 | 20 |
| Lithium | 0.0175 | | 0.500 | 0.5938 | | mg/L | | 115 | 75 - 125 | 2 | 20 |
| Molybdenum | 0.00504 | | 0.500 | 0.6106 | | mg/L | | 121 | 75 - 125 | 0 | 20 |
| Selenium | <0.000739 | | 1.00 | 1.022 | | mg/L | | 102 | 75 - 125 | 0 | 20 |
| Thallium | <0.000472 | | 1.00 | 1.247 | | mg/L | | 125 | 75 - 125 | 0 | 20 |

Lab Sample ID: MB 180-415672/1-A
Matrix: Water
Analysis Batch: 416064

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 415672

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|----------|----------|------|---|----------------|----------------|---------|
| Antimony | <0.000506 | | 0.00200 | 0.000506 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |
| Arsenic | <0.000282 | | 0.00100 | 0.000282 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |
| Barium | <0.00314 | | 0.0100 | 0.00314 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |
| Beryllium | <0.000274 | | 0.00100 | 0.000274 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |
| Boron | <0.0601 | | 0.0800 | 0.0601 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |
| Cadmium | <0.000217 | | 0.00100 | 0.000217 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |
| Calcium | <0.127 | | 0.500 | 0.127 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |
| Chromium | <0.00153 | | 0.00200 | 0.00153 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |
| Cobalt | <0.000261 | | 0.000500 | 0.000261 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |
| Lead | <0.000167 | | 0.00100 | 0.000167 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |
| Lithium | <0.000831 | | 0.00500 | 0.000831 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |
| Molybdenum | <0.000610 | | 0.00500 | 0.000610 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |
| Selenium | <0.000739 | | 0.00500 | 0.000739 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |
| Thallium | <0.000472 | | 0.00100 | 0.000472 | mg/L | | 10/20/22 11:45 | 10/22/22 17:03 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

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

Lab Sample ID: LCS 180-415672/2-A
Matrix: Water
Analysis Batch: 416064

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 415672

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Antimony | 0.250 | 0.2839 | | mg/L | | 114 | 80 - 120 |
| Arsenic | 1.00 | 1.096 | | mg/L | | 110 | 80 - 120 |
| Barium | 1.00 | 1.089 | | mg/L | | 109 | 80 - 120 |
| Beryllium | 0.500 | 0.5361 | | mg/L | | 107 | 80 - 120 |
| Boron | 1.25 | 1.263 | | mg/L | | 101 | 80 - 120 |
| Cadmium | 0.500 | 0.5442 | | mg/L | | 109 | 80 - 120 |
| Calcium | 25.0 | 29.93 | | mg/L | | 120 | 80 - 120 |
| Chromium | 0.500 | 0.5358 | | mg/L | | 107 | 80 - 120 |
| Cobalt | 0.500 | 0.5407 | | mg/L | | 108 | 80 - 120 |
| Lead | 0.500 | 0.5478 | | mg/L | | 110 | 80 - 120 |
| Lithium | 0.500 | 0.5239 | | mg/L | | 105 | 80 - 120 |
| Molybdenum | 0.500 | 0.5604 | | mg/L | | 112 | 80 - 120 |
| Selenium | 1.00 | 1.058 | | mg/L | | 106 | 80 - 120 |
| Thallium | 1.00 | 1.127 | | mg/L | | 113 | 80 - 120 |

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-414695/1-A
Matrix: Water
Analysis Batch: 414877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 414695

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000130 | | 0.000200 | 0.000130 | mg/L | | 10/11/22 11:45 | 10/12/22 14:55 | 1 |

Lab Sample ID: LCS 180-414695/2-A
Matrix: Water
Analysis Batch: 414877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 414695

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00250 | 0.002535 | | mg/L | | 101 | 80 - 120 |

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

Lab Sample ID: MB 180-414740/1
Matrix: Water
Analysis Batch: 414740

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 | <10.0 | | 10.0 | 10.0 | mg/L | | | 10/11/22 14:25 | 1 |

Lab Sample ID: LCS 180-414740/2
Matrix: Water
Analysis Batch: 414740

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 | 665 | 656.0 | | mg/L | | 99 | 85 - 115 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

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

Lab Sample ID: MB 180-414747/1
Matrix: Water
Analysis Batch: 414747

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 | <10.0 | | 10.0 | 10.0 | mg/L | | | 10/11/22 15:42 | 1 |

Lab Sample ID: LCS 180-414747/2
Matrix: Water
Analysis Batch: 414747

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 | 665 | 656.0 | | mg/L | | 99 | 85 - 115 |

Lab Sample ID: 180-145835-8 DU
Matrix: Water
Analysis Batch: 414747

Client Sample ID: DUP-03
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 60.0 | | 58.00 | | mg/L | | 3 | 10 |

Lab Sample ID: MB 180-414950/1
Matrix: Water
Analysis Batch: 414950

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 | <10.0 | | 10.0 | 10.0 | mg/L | | | 10/13/22 10:01 | 1 |

Lab Sample ID: LCS 180-414950/2
Matrix: Water
Analysis Batch: 414950

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 | 665 | 662.0 | | mg/L | | 100 | 85 - 115 |

Lab Sample ID: 180-145835-11 DU
Matrix: Water
Analysis Batch: 414950

Client Sample ID: FB-03
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | <10.0 | | <10.0 | | mg/L | | NC | 10 |

QC Association Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

HPLC/IC

Analysis Batch: 414596

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|-----------|------------|
| 180-145835-1 | BAW-1 | Total/NA | Water | EPA 9056A | |
| 180-145835-2 | BAW-3 | Total/NA | Water | EPA 9056A | |
| 180-145835-3 | BAW-4 | Total/NA | Water | EPA 9056A | |
| 180-145835-4 | BAW-5 | Total/NA | Water | EPA 9056A | |
| 180-145835-5 | BAW-7 | Total/NA | Water | EPA 9056A | |
| 180-145835-6 | BAW-8 | Total/NA | Water | EPA 9056A | |
| 180-145835-7 | BAW-9 | Total/NA | Water | EPA 9056A | |
| 180-145835-8 | DUP-03 | Total/NA | Water | EPA 9056A | |
| 180-145835-9 | EB-03 | Total/NA | Water | EPA 9056A | |
| 180-145835-10 | DUP-04 | Total/NA | Water | EPA 9056A | |
| 180-145835-11 | FB-03 | Total/NA | Water | EPA 9056A | |
| MB 180-414596/6 | Method Blank | Total/NA | Water | EPA 9056A | |
| LCS 180-414596/7 | Lab Control Sample | Total/NA | Water | EPA 9056A | |
| 180-145835-1 MS | BAW-1 | Total/NA | Water | EPA 9056A | |
| 180-145835-1 MSD | BAW-1 | Total/NA | Water | EPA 9056A | |
| 180-145835-10 MS | DUP-04 | Total/NA | Water | EPA 9056A | |
| 180-145835-10 MSD | DUP-04 | Total/NA | Water | EPA 9056A | |

Metals

Prep Batch: 414695

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-145835-1 | BAW-1 | Total/NA | Water | 7470A | |
| 180-145835-2 | BAW-3 | Total/NA | Water | 7470A | |
| 180-145835-3 | BAW-4 | Total/NA | Water | 7470A | |
| 180-145835-4 | BAW-5 | Total/NA | Water | 7470A | |
| 180-145835-5 | BAW-7 | Total/NA | Water | 7470A | |
| 180-145835-6 | BAW-8 | Total/NA | Water | 7470A | |
| 180-145835-7 | BAW-9 | Total/NA | Water | 7470A | |
| 180-145835-8 | DUP-03 | Total/NA | Water | 7470A | |
| 180-145835-9 | EB-03 | Total/NA | Water | 7470A | |
| 180-145835-10 | DUP-04 | Total/NA | Water | 7470A | |
| 180-145835-11 | FB-03 | Total/NA | Water | 7470A | |
| MB 180-414695/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 180-414695/2-A | Lab Control Sample | Total/NA | Water | 7470A | |

Analysis Batch: 414877

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 180-145835-1 | BAW-1 | Total/NA | Water | EPA 7470A | 414695 |
| 180-145835-2 | BAW-3 | Total/NA | Water | EPA 7470A | 414695 |
| 180-145835-3 | BAW-4 | Total/NA | Water | EPA 7470A | 414695 |
| 180-145835-4 | BAW-5 | Total/NA | Water | EPA 7470A | 414695 |
| 180-145835-5 | BAW-7 | Total/NA | Water | EPA 7470A | 414695 |
| 180-145835-6 | BAW-8 | Total/NA | Water | EPA 7470A | 414695 |
| 180-145835-7 | BAW-9 | Total/NA | Water | EPA 7470A | 414695 |
| 180-145835-8 | DUP-03 | Total/NA | Water | EPA 7470A | 414695 |
| 180-145835-9 | EB-03 | Total/NA | Water | EPA 7470A | 414695 |
| 180-145835-10 | DUP-04 | Total/NA | Water | EPA 7470A | 414695 |
| 180-145835-11 | FB-03 | Total/NA | Water | EPA 7470A | 414695 |
| MB 180-414695/1-A | Method Blank | Total/NA | Water | EPA 7470A | 414695 |
| LCS 180-414695/2-A | Lab Control Sample | Total/NA | Water | EPA 7470A | 414695 |

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QC Association Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Metals

Prep Batch: 415670

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-145835-1 | BAW-1 | Total Recoverable | Water | 3005A | |
| 180-145835-2 | BAW-3 | Total Recoverable | Water | 3005A | |
| 180-145835-3 | BAW-4 | Total Recoverable | Water | 3005A | |
| 180-145835-4 | BAW-5 | Total Recoverable | Water | 3005A | |
| 180-145835-5 | BAW-7 | Total Recoverable | Water | 3005A | |
| 180-145835-6 | BAW-8 | Total Recoverable | Water | 3005A | |
| MB 180-415670/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 180-415670/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 180-145835-6 MS | BAW-8 | Total Recoverable | Water | 3005A | |
| 180-145835-6 MSD | BAW-8 | Total Recoverable | Water | 3005A | |

Prep Batch: 415672

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-145835-7 | BAW-9 | Total Recoverable | Water | 3005A | |
| 180-145835-8 | DUP-03 | Total Recoverable | Water | 3005A | |
| 180-145835-9 | EB-03 | Total Recoverable | Water | 3005A | |
| 180-145835-10 | DUP-04 | Total Recoverable | Water | 3005A | |
| 180-145835-11 | FB-03 | Total Recoverable | Water | 3005A | |
| MB 180-415672/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 180-415672/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

Analysis Batch: 416064

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|-----------|------------|
| 180-145835-7 | BAW-9 | Total Recoverable | Water | EPA 6020B | 415672 |
| 180-145835-8 | DUP-03 | Total Recoverable | Water | EPA 6020B | 415672 |
| 180-145835-9 | EB-03 | Total Recoverable | Water | EPA 6020B | 415672 |
| 180-145835-10 | DUP-04 | Total Recoverable | Water | EPA 6020B | 415672 |
| 180-145835-11 | FB-03 | Total Recoverable | Water | EPA 6020B | 415672 |
| MB 180-415672/1-A | Method Blank | Total Recoverable | Water | EPA 6020B | 415672 |
| LCS 180-415672/2-A | Lab Control Sample | Total Recoverable | Water | EPA 6020B | 415672 |

Analysis Batch: 416090

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|-----------|------------|
| 180-145835-7 | BAW-9 | Total Recoverable | Water | EPA 6020B | 415672 |
| 180-145835-8 | DUP-03 | Total Recoverable | Water | EPA 6020B | 415672 |
| 180-145835-9 | EB-03 | Total Recoverable | Water | EPA 6020B | 415672 |
| 180-145835-10 | DUP-04 | Total Recoverable | Water | EPA 6020B | 415672 |
| 180-145835-11 | FB-03 | Total Recoverable | Water | EPA 6020B | 415672 |
| MB 180-415672/1-A | Method Blank | Total Recoverable | Water | EPA 6020B | 415672 |
| LCS 180-415672/2-A | Lab Control Sample | Total Recoverable | Water | EPA 6020B | 415672 |

Analysis Batch: 416345

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|-----------|------------|
| 180-145835-1 | BAW-1 | Total Recoverable | Water | EPA 6020B | 415670 |
| 180-145835-2 | BAW-3 | Total Recoverable | Water | EPA 6020B | 415670 |
| 180-145835-3 | BAW-4 | Total Recoverable | Water | EPA 6020B | 415670 |
| 180-145835-4 | BAW-5 | Total Recoverable | Water | EPA 6020B | 415670 |
| 180-145835-5 | BAW-7 | Total Recoverable | Water | EPA 6020B | 415670 |
| 180-145835-6 | BAW-8 | Total Recoverable | Water | EPA 6020B | 415670 |
| MB 180-415670/1-A | Method Blank | Total Recoverable | Water | EPA 6020B | 415670 |
| LCS 180-415670/2-A | Lab Control Sample | Total Recoverable | Water | EPA 6020B | 415670 |

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-145835-1

Metals (Continued)

Analysis Batch: 416345 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-------------------|--------|-----------|------------|
| 180-145835-6 MS | BAW-8 | Total Recoverable | Water | EPA 6020B | 415670 |
| 180-145835-6 MSD | BAW-8 | Total Recoverable | Water | EPA 6020B | 415670 |

General Chemistry

Analysis Batch: 414740

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-145835-1 | BAW-1 | Total/NA | Water | SM 2540C | |
| 180-145835-2 | BAW-3 | Total/NA | Water | SM 2540C | |
| MB 180-414740/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-414740/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |


Analysis Batch: 414747

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-145835-3 | BAW-4 | Total/NA | Water | SM 2540C | |
| 180-145835-8 | DUP-03 | Total/NA | Water | SM 2540C | |
| MB 180-414747/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-414747/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 180-145835-8 DU | DUP-03 | Total/NA | Water | SM 2540C | |

Analysis Batch: 414950

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-145835-4 | BAW-5 | Total/NA | Water | SM 2540C | |
| 180-145835-5 | BAW-7 | Total/NA | Water | SM 2540C | |
| 180-145835-6 | BAW-8 | Total/NA | Water | SM 2540C | |
| 180-145835-7 | BAW-9 | Total/NA | Water | SM 2540C | |
| 180-145835-9 | EB-03 | Total/NA | Water | SM 2540C | |
| 180-145835-10 | DUP-04 | Total/NA | Water | SM 2540C | |
| 180-145835-11 | FB-03 | Total/NA | Water | SM 2540C | |
| MB 180-414950/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-414950/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 180-145835-11 DU | FB-03 | Total/NA | Water | SM 2540C | |

Chain of Custody Record

| | | | | | | | | | | |
|--|---------|--|---|---|----|---|---|---|---|---|
| Client Information Client Contact: <i>Phong Nguyen</i> SCS Contacts: <i>350-336-0192</i> Company: SCS | | Lab PM: <i>Brown, Shail</i> E-Mail: <i>shail.brown@eurofinset.com</i> | | Carrier Tracking No(s): Job #: | | | | | | |
| Address: 3535 Colonnade Pkwy Bln S 530 EC City: Birmingham State/Zip: Alabama Phone: 205 992 6283 Email: SCS10382606 SCS Contacts: 18020047 Project Name: Plant Daniel Ash Pond B Site: SSON# | | Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: | | Analysis Requested: Custom 14 (Appil and IV) + Mercury Chloride Fluoride and Sulfate Total Dissolved Solids Radium 226 Radium 228 + Combined | | | | | | |
| Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=onwater, A=air) Preservation Code: | | Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) | | Total Number of containers Note:  | | | | | | |
| BAW-1 | 10-5-22 | 1714 | G | W | MD | X | X | X | X | 5 |
| BAW-3 | 10-5-22 | 1820 | G | W | ND | X | X | X | X | 5 |
| BAW-4 | 10-5-22 | 1510 | G | W | ND | X | X | X | X | 5 |
| BAW-5 | 10-6-22 | 1123 | G | W | ND | X | X | X | X | 5 |
| BAW-7 | 10-6-22 | 1207 | G | W | ND | X | X | X | X | 5 |
| BAW-B | 10-6-22 | 1002 | G | W | ND | X | X | X | X | 5 |
| BAW-9 | 10-6-22 | 0836 | G | W | ND | X | X | X | X | 5 |
| DUP-03 | 10-5-22 | 1410 | G | W | ND | X | X | X | X | 5 |
| EB-03 | 10-6-22 | 0855 | G | W | ND | X | X | X | X | 5 |
| DUP-04 | 10-6-22 | 1107 | G | W | ND | X | X | X | X | 5 |
| FB-03 | 10-6-22 | 0931 | G | W | ND | X | X | X | X | 5 |
| 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 Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i> Relinquished by: | | Date/Time: 10-6-22 1314 Date/Time: Date/Time: | | Method of Shipment: Received by: <i>[Signature]</i> Date/Time: 10/11/22 13.14 Company: <i>EPIT</i> | | | | | | |
| Custody Seals Intact: Δ Yes Δ No | | Custody Seal No | | Cooler Temperature(s) °C and Other Remarks | | | | | | |

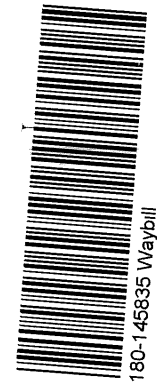


Do not

ORIGIN ID:MOBA (850) 382-7197
RDH ENVIRONMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

SHIP DATE: 06OCT22
ACTWGT: 69.65 LB
CAD: 6994563/SSFE2322
DIMS: 24x13x14 IN
BILL RECEIPT

Part # 156297-435 RROB2 EXP 07/23
GEB/CSN/TTB5



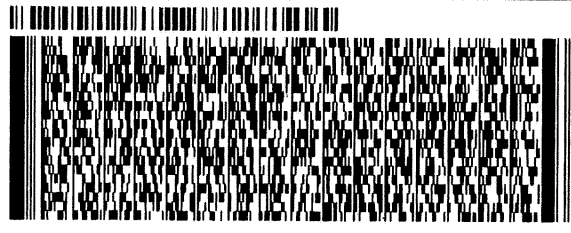
TO

TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 963-7058
INV: PO:

REF: DEPT:



FedEx
Express



J22020202012010V

3 of 3

MPS# 2788 3872 9224
0263

Mstr# 2788 3872 9202

0201

FRI - 07 OCT 10:30A
PRIORITY OVERNIGHT

XN AGCA

AHS
15238
PIT

PA-US

Uncorrected temp
Thermometer ID

206
20
BL

CF OeO Initials

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



Uncorrected temp



art # 156297-435 RRDB2 EXP 07/23

ACTWGT: 77.70 LB
CAD: 6994563/SSFE2322
DIMS: 24x13x14 IN
BILL RECIPIENT

RDH ENVIORMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 968-7068
REF: PO1

DEPT:



Thermometer ID

24°C

CF 0.2 Initials SAC

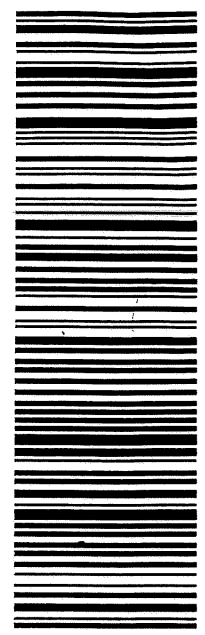
PT-MI-SR-001 effective 7/26/13

1 A
10:30 9202
10:07

FRI - 07 OCT 10:30A
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

1 of 3
TRK# 2788 3872 9202
0201
MASTER

XN AGCA



Part # 156297-435 RRDB2 EXP 07/23

SHIP DATE: 06OCT22
ACTWGT: 74.85 LB
CAD: 6994563/SSFE2322
DIMS: 24x13x14 IN
BILL RECIPIENT

ORIGIN ID:MOBA (850) 362-7197
RDH ENVIORMENTAL
5720 DOVE DR
PACE, FL 32571
UNITED STATES US

TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238

(412) 968-7068
REF: NO1

DEPT:



FedEx Express



1223022081201010

FRI - 07 OCT 10:30A
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

2 of 3
MPS# 2788 3872 9213
0263
Mstr# 2788 3872 9202
0201

XN AGCA



32.0°C
20
22

Uncorrected temp
Thermometer ID

CF 0.2 Initials

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

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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-145835-1

Login Number: 145835

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins 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****PREPARED FOR**

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 12/4/2022 6:53:56 PM

JOB DESCRIPTION

Plant Daniel Ash Pond B

JOB NUMBER

180-146922-1

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

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

Authorization



Generated
12/4/2022 6:53:56 PM

Authorized for release by
Shali Brown, Project Manager II
Shali.Brown@et.eurofinsus.com
(615)301-5031



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Case Narrative

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Job ID: 180-146922-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-146922-1

Receipt

The samples were received on 10/26/2022 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 2 coolers at receipt time were 4.2°C and 4.5°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 batch 588391 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. BAW-1 (180-146922-1), BAW-3 (180-146922-2), BAW-4 (180-146922-3), BAW-5 (180-146922-4), BAW-8 (180-146922-6), BAW-9 (180-146922-7), DUP-01 (180-146922-8), EB-01 (180-146922-9), FB-01 (180-146922-10), (LCS 160-588391/2-A), (MB 160-588391/1-A), (280-168096-B-7-A) and (280-168096-C-7-A DU)

Method 9315_Ra226: Radium-226 batch 589065 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. BAW-7 (180-146922-5), (LCS 160-589065/2-A), (LCSD 160-589065/3-A) and (MB 160-589065/1-A)

Method 9320_Ra228: Radium-228 prep batch 160-588393: 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. BAW-1 (180-146922-1), BAW-3 (180-146922-2), BAW-4 (180-146922-3), BAW-5 (180-146922-4), BAW-8 (180-146922-6), BAW-9 (180-146922-7), DUP-01 (180-146922-8), EB-01 (180-146922-9), FB-01 (180-146922-10), (LCS 160-588393/2-A), (MB 160-588393/1-A), (280-168096-B-7-B) and (280-168096-C-7-B DU)

Method 9320_Ra228: Radium -228 batch 589073 The LCS/LCSD recovered at (135 & 133%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS passes, no further action is required (LCS 160-589073/2-A) and (LCSD 160-589073/3-A)

Method 9320_Ra228: Radium -228 batch 589073 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. BAW-7 (180-146922-5), (LCS 160-589073/2-A), (LCSD 160-589073/3-A) and (MB 160-589073/1-A)

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

Rad

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 Daniel Ash Pond B

Job ID: 180-146922-1

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 |
| 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 Daniel Ash Pond B

Job ID: 180-146922-1

Laboratory: Eurofins St. Louis

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

| Authority | Program | Identification Number | Expiration Date |
|--------------------------|---|----------------------------|-----------------|
| Alaska (UST) | State | 20-001 | 05-06-25 |
| ANAB | Dept. of Defense ELAP | L2305 | 04-06-25 |
| ANAB | Dept. of Energy | L2305.01 | 04-06-25 |
| ANAB | ISO/IEC 17025 | L2305 | 04-06-25 |
| Arizona | State | AZ0813 | 12-08-22 |
| California | Los Angeles County Sanitation Districts | 10259 | 06-30-22 * |
| California | State | 2886 | 06-30-23 |
| Connecticut | State | PH-0241 | 03-31-23 |
| Florida | NELAP | E87689 | 06-30-23 |
| HI - RadChem Recognition | State | n/a | 06-30-23 |
| Illinois | NELAP | 200023 | 11-30-23 |
| Iowa | State | 373 | 12-01-22 * |
| Kansas | NELAP | E-10236 | 10-31-23 |
| Kentucky (DW) | State | KY90125 | 12-31-22 |
| Kentucky (WW) | State | KY90125 (Permit KY0004049) | 12-31-22 |
| Louisiana (All) | NELAP | 04080 | 06-30-23 |
| Louisiana (DW) | State | LA011 | 12-31-22 |
| Maryland | State | 310 | 09-30-23 |
| MI - RadChem Recognition | State | 9005 | 06-30-23 |
| Missouri | State | 780 | 06-30-25 |
| Nevada | State | MO000542020-1 | 07-31-23 |
| New Jersey | NELAP | MO002 | 06-30-23 |
| New York | NELAP | 11616 | 04-01-23 |
| North Dakota | State | R-207 | 06-30-23 |
| NRC | NRC | 24-24817-01 | 12-31-22 |
| Oklahoma | NELAP | 9997 | 08-31-23 |
| Oregon | NELAP | 4157 | 09-01-23 |
| Pennsylvania | NELAP | 68-00540 | 02-28-23 |
| South Carolina | State | 85002001 | 06-30-23 |
| Texas | NELAP | T104704193 | 07-31-23 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-23 |
| USDA | US Federal Programs | P330-17-00028 | 03-11-23 |
| Utah | NELAP | MO000542021-14 | 07-31-23 |
| Virginia | NELAP | 10310 | 06-14-24 |
| Washington | State | C592 | 08-30-23 |
| West Virginia DEP | State | 381 | 12-31-22 |

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

Sample Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 180-146922-1 | BAW-1 | Water | 10/21/22 14:13 | 10/26/22 09:00 |
| 180-146922-2 | BAW-3 | Water | 10/21/22 17:14 | 10/26/22 09:00 |
| 180-146922-3 | BAW-4 | Water | 10/21/22 12:53 | 10/26/22 09:00 |
| 180-146922-4 | BAW-5 | Water | 10/21/22 08:44 | 10/26/22 09:00 |
| 180-146922-5 | BAW-7 | Water | 10/21/22 15:51 | 10/26/22 09:00 |
| 180-146922-6 | BAW-8 | Water | 10/21/22 11:55 | 10/26/22 09:00 |
| 180-146922-7 | BAW-9 | Water | 10/21/22 09:55 | 10/26/22 09:00 |
| 180-146922-8 | DUP-01 | Water | 10/21/22 13:13 | 10/26/22 09:00 |
| 180-146922-9 | EB-01 | Water | 10/21/22 14:12 | 10/26/22 09:00 |
| 180-146922-10 | FB-01 | Water | 10/21/22 14:02 | 10/26/22 09:00 |

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Method Summary

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

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

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Client Sample ID: BAW-1
Date Collected: 10/21/22 14:13
Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-1
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 | | | 999.29 mL | 1.0 g | 588391 | 11/03/22 13:07 | BMP | EET SL |
| Total/NA | Analysis | 9315 | | 1 | | | 591519 | 11/29/22 14:33 | FLC | EET SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 999.29 mL | 1.0 g | 588393 | 11/03/22 13:30 | BMP | EET SL |
| Total/NA | Analysis | 9320 | | 1 | | | 590420 | 11/17/22 16:48 | SCB | EET SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 592066 | 12/02/22 10:28 | SCB | EET SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-3
Date Collected: 10/21/22 17:14
Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-2
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 | | | 1005.70 mL | 1.0 g | 588391 | 11/03/22 13:07 | BMP | EET SL |
| Total/NA | Analysis | 9315 | | 1 | | | 591519 | 11/29/22 14:33 | FLC | EET SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1005.70 mL | 1.0 g | 588393 | 11/03/22 13:30 | BMP | EET SL |
| Total/NA | Analysis | 9320 | | 1 | | | 590420 | 11/17/22 16:48 | SCB | EET SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 592066 | 12/02/22 10:28 | SCB | EET SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-4
Date Collected: 10/21/22 12:53
Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-3
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 | | | 1006.92 mL | 1.0 g | 588391 | 11/03/22 13:07 | BMP | EET SL |
| Total/NA | Analysis | 9315 | | 1 | | | 591519 | 11/29/22 14:33 | FLC | EET SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1006.92 mL | 1.0 g | 588393 | 11/03/22 13:30 | BMP | EET SL |
| Total/NA | Analysis | 9320 | | 1 | | | 590420 | 11/17/22 16:48 | SCB | EET SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 592066 | 12/02/22 10:28 | SCB | EET SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-5
Date Collected: 10/21/22 08:44
Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-4
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 | | | 997.97 mL | 1.0 g | 588391 | 11/03/22 13:07 | BMP | EET SL |
| Total/NA | Analysis | 9315 | | 1 | | | 591519 | 11/29/22 14:33 | FLC | EET SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Client Sample ID: BAW-5

Lab Sample ID: 180-146922-4

Date Collected: 10/21/22 08:44

Matrix: Water

Date Received: 10/26/22 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 | | | 997.97 mL | 1.0 g | 588393 | 11/03/22 13:30 | BMP | EET SL |
| Total/NA | Analysis | 9320 | | 1 | 1.0 mL | 1.0 mL | 590420 | 11/17/22 16:49 | SCB | EET SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 592066 | 12/02/22 10:28 | SCB | EET SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-7

Lab Sample ID: 180-146922-5

Date Collected: 10/21/22 15:51

Matrix: Water

Date Received: 10/26/22 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 | | | 1006.88 mL | 1.0 g | 589065 | 11/07/22 09:48 | BMP | EET SL |
| Total/NA | Analysis | 9315 | | 1 | 1.0 mL | 1.0 mL | 591652 | 11/30/22 18:34 | FLC | EET SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1006.88 mL | 1.0 g | 589073 | 11/07/22 10:41 | BMP | EET SL |
| Total/NA | Analysis | 9320 | | 1 | | | 590568 | 11/18/22 09:26 | FLC | EET SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 592065 | 12/02/22 10:27 | SCB | EET SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-8

Lab Sample ID: 180-146922-6

Date Collected: 10/21/22 11:55

Matrix: Water

Date Received: 10/26/22 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 | | | 1006.20 mL | 1.0 g | 588391 | 11/03/22 13:07 | BMP | EET SL |
| Total/NA | Analysis | 9315 | | 1 | | | 591519 | 11/29/22 14:33 | FLC | EET SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1006.20 mL | 1.0 g | 588393 | 11/03/22 13:30 | BMP | EET SL |
| Total/NA | Analysis | 9320 | | 1 | | | 590421 | 11/17/22 16:45 | FLC | EET SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 592066 | 12/02/22 10:28 | SCB | EET SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: BAW-9

Lab Sample ID: 180-146922-7

Date Collected: 10/21/22 09:55

Matrix: Water

Date Received: 10/26/22 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 | | | 764.01 mL | 1.0 g | 588391 | 11/03/22 13:07 | BMP | EET SL |
| Total/NA | Analysis | 9315 | | 1 | | | 591519 | 11/29/22 14:33 | FLC | EET SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 764.01 mL | 1.0 g | 588393 | 11/03/22 13:30 | BMP | EET SL |
| Total/NA | Analysis | 9320 | | 1 | | | 590421 | 11/17/22 16:46 | FLC | EET SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Client Sample ID: BAW-9
Date Collected: 10/21/22 09:55
Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-7
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 | | | 592066 | 12/02/22 10:28 | SCB | EET SL |

Client Sample ID: DUP-01
Date Collected: 10/21/22 13:13
Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-8
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 | | | 994.78 mL | 1.0 g | 588391 | 11/03/22 13:07 | BMP | EET SL |
| Total/NA | Analysis | 9315 | | 1 | | | 591519 | 11/29/22 14:33 | FLC | EET SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 994.78 mL | 1.0 g | 588393 | 11/03/22 13:30 | BMP | EET SL |
| Total/NA | Analysis | 9320 | | 1 | | | 590421 | 11/17/22 16:46 | FLC | EET SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 592066 | 12/02/22 10:28 | SCB | EET SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: EB-01
Date Collected: 10/21/22 14:12
Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-9
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 | | | 1014.61 mL | 1.0 g | 588391 | 11/03/22 13:07 | BMP | EET SL |
| Total/NA | Analysis | 9315 | | 1 | | | 591519 | 11/29/22 14:34 | FLC | EET SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1014.61 mL | 1.0 g | 588393 | 11/03/22 13:30 | BMP | EET SL |
| Total/NA | Analysis | 9320 | | 1 | | | 590421 | 11/17/22 16:46 | FLC | EET SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 592066 | 12/02/22 10:28 | SCB | EET SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: FB-01
Date Collected: 10/21/22 14:02
Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-10
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 | | | 997.91 mL | 1.0 g | 588391 | 11/03/22 13:07 | BMP | EET SL |
| Total/NA | Analysis | 9315 | | 1 | | | 591518 | 11/29/22 14:35 | FLC | EET SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 997.91 mL | 1.0 g | 588393 | 11/03/22 13:30 | BMP | EET SL |
| Total/NA | Analysis | 9320 | | 1 | | | 590421 | 11/17/22 16:46 | FLC | EET SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 592066 | 12/02/22 10:28 | SCB | EET SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Laboratory References:

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

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Analyst References:

Lab: EET SL

Batch Type: Prep

BMP = Bailey Pinette

Batch Type: Analysis

FLC = Fernando Cruz

SCB = Sarah Bernsen

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Client Sample ID: BAW-1
 Date Collected: 10/21/22 14:13
 Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-1
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.188 | | 0.0988 | 0.100 | 1.00 | 0.124 | pCi/L | 11/03/22 13:07 | 11/29/22 14:33 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 77.8 | | 40 - 110 | | | | | 11/03/22 13:07 | 11/29/22 14:33 | 1 |

Method: SW846 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.759 | | 0.444 | 0.450 | 1.00 | 0.634 | pCi/L | 11/03/22 13:30 | 11/17/22 16:48 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 77.8 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:48 | 1 |
| Y Carrier | 82.6 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:48 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.946 | | 0.455 | 0.461 | 5.00 | 0.634 | pCi/L | | 12/02/22 10:28 | 1 |

Client Sample ID: BAW-3
 Date Collected: 10/21/22 17:14
 Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-2
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.194 | | 0.0918 | 0.0934 | 1.00 | 0.112 | pCi/L | 11/03/22 13:07 | 11/29/22 14:33 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.4 | | 40 - 110 | | | | | 11/03/22 13:07 | 11/29/22 14:33 | 1 |

Method: SW846 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.10 | | 0.457 | 0.468 | 1.00 | 0.610 | pCi/L | 11/03/22 13:30 | 11/17/22 16:48 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.4 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:48 | 1 |
| Y Carrier | 83.0 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:48 | 1 |

Eurofins Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Client Sample ID: BAW-3
 Date Collected: 10/21/22 17:14
 Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-2
 Matrix: Water

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.29 | | 0.466 | 0.477 | 5.00 | 0.610 | pCi/L | | 12/02/22 10:28 | 1 |

Client Sample ID: BAW-4
 Date Collected: 10/21/22 12:53
 Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-3
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.177 | | 0.0847 | 0.0862 | 1.00 | 0.0959 | pCi/L | 11/03/22 13:07 | 11/29/22 14:33 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.7 | | 40 - 110 | | | | | 11/03/22 13:07 | 11/29/22 14:33 | 1 |

Method: SW846 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 0.386 | U | 0.366 | 0.368 | 1.00 | 0.584 | pCi/L | 11/03/22 13:30 | 11/17/22 16:48 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.7 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:48 | 1 |
| Y Carrier | 84.1 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:48 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.562 | U | 0.376 | 0.378 | 5.00 | 0.584 | pCi/L | | 12/02/22 10:28 | 1 |

Client Sample ID: BAW-5
 Date Collected: 10/21/22 08:44
 Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-4
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.328 | | 0.106 | 0.110 | 1.00 | 0.0950 | pCi/L | 11/03/22 13:07 | 11/29/22 14:33 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.5 | | 40 - 110 | | | | | 11/03/22 13:07 | 11/29/22 14:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Client Sample ID: BAW-5
 Date Collected: 10/21/22 08:44
 Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-4
 Matrix: Water

Method: SW846 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 1.03 | | 0.437 | 0.448 | 1.00 | 0.572 | pCi/L | 11/03/22 13:30 | 11/17/22 16:49 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.5 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:49 | 1 |
| Y Carrier | 83.7 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:49 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.36 | | 0.450 | 0.461 | 5.00 | 0.572 | pCi/L | | 12/02/22 10:28 | 1 |

Client Sample ID: BAW-7
 Date Collected: 10/21/22 15:51
 Date Received: 10/26/22 09:00

Lab Sample ID: 180-146922-5
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.744 | | 0.156 | 0.170 | 1.00 | 0.117 | pCi/L | 11/07/22 09:48 | 11/30/22 18:34 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.2 | | 40 - 110 | | | | | 11/07/22 09:48 | 11/30/22 18:34 | 1 |

Method: SW846 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 1.29 | | 0.436 | 0.452 | 1.00 | 0.520 | pCi/L | 11/07/22 10:41 | 11/18/22 09:26 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.2 | | 40 - 110 | | | | | 11/07/22 10:41 | 11/18/22 09:26 | 1 |
| Y Carrier | 85.2 | | 40 - 110 | | | | | 11/07/22 10:41 | 11/18/22 09:26 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 2.03 | | 0.463 | 0.483 | 5.00 | 0.520 | pCi/L | | 12/02/22 10:27 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Client Sample ID: BAW-8

Lab Sample ID: 180-146922-6

Date Collected: 10/21/22 11:55

Matrix: Water

Date Received: 10/26/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.446 | | 0.122 | 0.128 | 1.00 | 0.103 | pCi/L | 11/03/22 13:07 | 11/29/22 14:33 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.1 | | 40 - 110 | | | | | 11/03/22 13:07 | 11/29/22 14:33 | 1 |

Method: SW846 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.983 | | 0.399 | 0.409 | 1.00 | 0.492 | pCi/L | 11/03/22 13:30 | 11/17/22 16:45 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.1 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:45 | 1 |
| Y Carrier | 84.1 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:45 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.43 | | 0.417 | 0.429 | 5.00 | 0.492 | pCi/L | | 12/02/22 10:28 | 1 |

Client Sample ID: BAW-9

Lab Sample ID: 180-146922-7

Date Collected: 10/21/22 09:55

Matrix: Water

Date Received: 10/26/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.257 | | 0.134 | 0.136 | 1.00 | 0.173 | pCi/L | 11/03/22 13:07 | 11/29/22 14:33 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.4 | | 40 - 110 | | | | | 11/03/22 13:07 | 11/29/22 14:33 | 1 |

Method: SW846 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.34 | | 0.540 | 0.553 | 1.00 | 0.666 | pCi/L | 11/03/22 13:30 | 11/17/22 16:46 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.4 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:46 | 1 |
| Y Carrier | 82.6 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:46 | 1 |

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Client Sample ID: BAW-9

Lab Sample ID: 180-146922-7

Date Collected: 10/21/22 09:55

Matrix: Water

Date Received: 10/26/22 09:00

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.59 | | 0.556 | 0.569 | 5.00 | 0.666 | pCi/L | | 12/02/22 10:28 | 1 |

Client Sample ID: DUP-01

Lab Sample ID: 180-146922-8

Date Collected: 10/21/22 13:13

Matrix: Water

Date Received: 10/26/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.209 | | 0.0935 | 0.0953 | 1.00 | 0.105 | pCi/L | 11/03/22 13:07 | 11/29/22 14:33 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.7 | | 40 - 110 | | | | | 11/03/22 13:07 | 11/29/22 14:33 | 1 |

Method: SW846 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.42 | | 0.503 | 0.520 | 1.00 | 0.628 | pCi/L | 11/03/22 13:30 | 11/17/22 16:46 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.7 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:46 | 1 |
| Y Carrier | 84.9 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:46 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.63 | | 0.512 | 0.529 | 5.00 | 0.628 | pCi/L | | 12/02/22 10:28 | 1 |

Client Sample ID: EB-01

Lab Sample ID: 180-146922-9

Date Collected: 10/21/22 14:12

Matrix: Water

Date Received: 10/26/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0731 | U | 0.0746 | 0.0748 | 1.00 | 0.118 | pCi/L | 11/03/22 13:07 | 11/29/22 14:34 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.9 | | 40 - 110 | | | | | 11/03/22 13:07 | 11/29/22 14:34 | 1 |

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Client Sample ID: EB-01

Lab Sample ID: 180-146922-9

Date Collected: 10/21/22 14:12

Matrix: Water

Date Received: 10/26/22 09:00

Method: SW846 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.879 | | 0.418 | 0.426 | 1.00 | 0.568 | pCi/L | 11/03/22 13:30 | 11/17/22 16:46 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.9 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:46 | 1 |
| Y Carrier | 82.6 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:46 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.952 | | 0.425 | 0.433 | 5.00 | 0.568 | pCi/L | | 12/02/22 10:28 | 1 |

Client Sample ID: FB-01

Lab Sample ID: 180-146922-10

Date Collected: 10/21/22 14:02

Matrix: Water

Date Received: 10/26/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0586 | U | 0.0589 | 0.0592 | 1.00 | 0.0915 | pCi/L | 11/03/22 13:07 | 11/29/22 14:35 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 40 - 110 | | | | | 11/03/22 13:07 | 11/29/22 14:35 | 1 |

Method: SW846 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.27 | | 0.448 | 0.464 | 1.00 | 0.548 | pCi/L | 11/03/22 13:30 | 11/17/22 16:46 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:46 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:46 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.33 | | 0.452 | 0.468 | 5.00 | 0.548 | pCi/L | | 12/02/22 10:28 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-588391/1-A
Matrix: Water
Analysis Batch: 591519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588391

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|----------|--------------|-----------------|-----------------|------|-------|-------|----------------|----------------|---------|
| | Result | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | -0.03970 | U | 0.0482 | 0.0483 | 1.00 | 0.118 | pCi/L | 11/03/22 13:07 | 11/29/22 14:32 | 1 |
| Carrier | MB | | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | %Yield | MB Qualifier | 40 - 110 | | | | | 11/03/22 13:07 | 11/29/22 14:32 | 1 |
| | 94.4 | | | | | | | | | |

Lab Sample ID: LCS 160-588391/2-A
Matrix: Water
Analysis Batch: 591519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588391

| Analyte | LCS | | Spike | LCS | Total | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|--------|---------------|----------|--------|-----------------|------|-------|-------|------|-------------|
| | %Yield | LCS Qualifier | Added | Result | Uncert. (2σ+/-) | | | | | |
| Radium-226 | | | 11.3 | 9.575 | 1.01 | 1.00 | 0.117 | pCi/L | 84 | 75 - 125 |
| Carrier | LCS | | Limits | | | | | | | |
| Ba Carrier | %Yield | LCS Qualifier | 40 - 110 | | | | | | | |
| | 96.4 | | | | | | | | | |

Lab Sample ID: MB 160-589065/1-A
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 589065

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|--------------|-----------------|-----------------|------|--------|-------|----------------|----------------|---------|
| | Result | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | 0.04305 | U | 0.0534 | 0.0535 | 1.00 | 0.0878 | pCi/L | 11/07/22 09:48 | 11/30/22 15:51 | 1 |
| Carrier | MB | | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | %Yield | MB Qualifier | 40 - 110 | | | | | 11/07/22 09:48 | 11/30/22 15:51 | 1 |
| | 90.3 | | | | | | | | | |

Lab Sample ID: LCS 160-589065/2-A
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589065

| Analyte | LCS | | Spike | LCS | Total | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|--------|---------------|----------|--------|-----------------|------|--------|-------|------|-------------|
| | %Yield | LCS Qualifier | Added | Result | Uncert. (2σ+/-) | | | | | |
| Radium-226 | | | 11.3 | 10.67 | 1.11 | 1.00 | 0.0873 | pCi/L | 94 | 75 - 125 |
| Carrier | LCS | | Limits | | | | | | | |
| Ba Carrier | %Yield | LCS Qualifier | 40 - 110 | | | | | | | |
| | 87.7 | | | | | | | | | |

Lab Sample ID: LCSD 160-589065/3-A
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 589065

| Analyte | LCSD | | Spike | LCSD | Total | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|------------|--------|----------------|-------|--------|-----------------|------|--------|-------|------|-------------|------|-----------|
| | %Yield | LCSD Qualifier | Added | Result | Uncert. (2σ+/-) | | | | | | | |
| Radium-226 | | | 11.3 | 9.053 | 0.953 | 1.00 | 0.0836 | pCi/L | 80 | 75 - 125 | 0.78 | 1 |

Eurofins Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCSD 160-589065/3-A
Matrix: Water
Analysis Batch: 591652

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 589065

| Carrier | LCSD | | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 94.7 | | 40 - 110 |

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-588393/1-A
Matrix: Water
Analysis Batch: 590420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588393

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| | | | | | | | | | | |
| Radium-228 | 0.2949 | U | 0.355 | 0.356 | 1.00 | 0.586 | pCi/L | 11/03/22 13:30 | 11/17/22 16:47 | 1 |
| Carrier | | | | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.4 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:47 | 1 |
| Y Carrier | 83.4 | | 40 - 110 | | | | | 11/03/22 13:30 | 11/17/22 16:47 | 1 |

Lab Sample ID: LCS 160-588393/2-A
Matrix: Water
Analysis Batch: 590420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588393

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|-------------|
| | | | | | | | | | |
| Radium-228 | 8.44 | 10.33 | | 1.39 | 1.00 | 0.563 | pCi/L | 122 | 75 - 125 |
| Carrier | | | | | | | | | |
| Ba Carrier | 96.4 | | 40 - 110 | | | | | | |
| Y Carrier | 83.0 | | 40 - 110 | | | | | | |

Lab Sample ID: MB 160-589073/1-A
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 589073

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| | | | | | | | | | | |
| Radium-228 | 0.4941 | U | 0.354 | 0.357 | 1.00 | 0.536 | pCi/L | 11/07/22 10:41 | 11/18/22 09:24 | 1 |
| Carrier | | | | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.3 | | 40 - 110 | | | | | 11/07/22 10:41 | 11/18/22 09:24 | 1 |
| Y Carrier | 81.9 | | 40 - 110 | | | | | 11/07/22 10:41 | 11/18/22 09:24 | 1 |

Lab Sample ID: LCS 160-589073/2-A
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589073

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|-------------|
| | | | | | | | | | |
| Radium-228 | 8.44 | 11.39 | | 1.49 | 1.00 | 0.512 | pCi/L | 135 | 75 - 125 |

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

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

Lab Sample ID: LCS 160-589073/2-A
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589073

| Carrier | LCS | | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 87.7 | | 40 - 110 |
| Y Carrier | 82.2 | | 40 - 110 |

Lab Sample ID: LCSD 160-589073/3-A
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 589073

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec | | RER |
|------------|-------------|-------------|-----------|-----------------------|------|-------|-------|------|----------|------|-------|
| | | | | | | | | | Limits | RER | Limit |
| Radium-228 | 8.44 | 11.22 | | 1.44 | 1.00 | 0.519 | pCi/L | 133 | 75 - 125 | 0.06 | 1 |

| Carrier | LCSD | | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 94.7 | | 40 - 110 |
| Y Carrier | 82.2 | | 40 - 110 |

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Daniel Ash Pond B

Job ID: 180-146922-1

Rad

Prep Batch: 588391

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 180-146922-1 | BAW-1 | Total/NA | Water | PrecSep-21 | |
| 180-146922-2 | BAW-3 | Total/NA | Water | PrecSep-21 | |
| 180-146922-3 | BAW-4 | Total/NA | Water | PrecSep-21 | |
| 180-146922-4 | BAW-5 | Total/NA | Water | PrecSep-21 | |
| 180-146922-6 | BAW-8 | Total/NA | Water | PrecSep-21 | |
| 180-146922-7 | BAW-9 | Total/NA | Water | PrecSep-21 | |
| 180-146922-8 | DUP-01 | Total/NA | Water | PrecSep-21 | |
| 180-146922-9 | EB-01 | Total/NA | Water | PrecSep-21 | |
| 180-146922-10 | FB-01 | Total/NA | Water | PrecSep-21 | |
| MB 160-588391/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-588391/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |

Prep Batch: 588393

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 180-146922-1 | BAW-1 | Total/NA | Water | PrecSep_0 | |
| 180-146922-2 | BAW-3 | Total/NA | Water | PrecSep_0 | |
| 180-146922-3 | BAW-4 | Total/NA | Water | PrecSep_0 | |
| 180-146922-4 | BAW-5 | Total/NA | Water | PrecSep_0 | |
| 180-146922-6 | BAW-8 | Total/NA | Water | PrecSep_0 | |
| 180-146922-7 | BAW-9 | Total/NA | Water | PrecSep_0 | |
| 180-146922-8 | DUP-01 | Total/NA | Water | PrecSep_0 | |
| 180-146922-9 | EB-01 | Total/NA | Water | PrecSep_0 | |
| 180-146922-10 | FB-01 | Total/NA | Water | PrecSep_0 | |
| MB 160-588393/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-588393/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |

Prep Batch: 589065

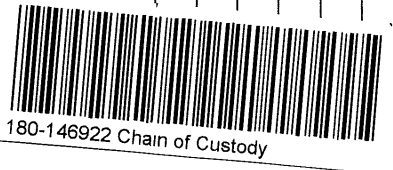
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 180-146922-5 | BAW-7 | Total/NA | Water | PrecSep-21 | |
| MB 160-589065/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-589065/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-589065/3-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

Prep Batch: 589073

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 180-146922-5 | BAW-7 | Total/NA | Water | PrecSep_0 | |
| MB 160-589073/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-589073/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-589073/3-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

Chain of Custody Record

| | | | | | | | | | |
|--|--|---|--|---|--|---|--|--|--|
| Client Information | | Address: 3535 Colonnade Pkwy Bin S 530 EC | | Due Date Requested: | | Lab PM: Brown, Shail | | Carrier Tracking No(s) | |
| Client Contact: <i>Hege...</i> | | City: Birmingham | | TAT Requested (days): | | E-Mail: shall.brown@eurofinset.com | | COC No | |
| SCS Contacts: 850-336-0192 | | State/Zip: Alabama | | PO #: SCS10382606 | | Phone: 205.992.6283 | | Page: 1 of 1 | |
| Company: SCS | | Email: | | WO #: | | Project #: | | Job #: | |
| Address: 18020047 | | Project Name: Plant Daniel Ash Pond B | | SSON#: | | SCS Contacts: | | Analysis Requested | |
| City: | | Site: | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | |
| Matrix (W=water, S=solid, O=wastewater, IAT=Tissue, A=Air) | | Preservation Code: | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | |
| Field Filtered Sample (Yes or No) | | Perform MS/MSD (Yes or No) | | Custom 14 (AppII and IV) + Mercury | | Chloride Fluoride and Sulfate | | Total Dissolved Solids | |
| Radium 226 Radium 228 + Combined | | Total Number of Containers | | Special Instructions/Note: | | Preservation Codes: | | Special Instructions/Note: | |
| A - HCL | | M - Hexane | | B - NaOH | | N - None | | O - AsNaO2 | |
| C - Zn Acetate | | P - Na2O4S | | D - Nitric Acid | | Q - Na2SO3 | | R - Na2SO3 | |
| E - NaHSO4 | | S - H2SO4 | | G - Amchlor | | H - Ascorbic Acid | | T - TSP Dodecahydrate | |
| F - MeOH | | I - Ice | | J - DI Water | | U - Acetone | | V - MCAA | |
| H - Ascorbic Acid | | K - EDTA | | L - EDA | | W - pH 4-5 | | Z - other (specify) | |
| Other: | | | | | | | | | |
| Sample Identification | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | | Matrix (W=water, S=solid, O=wastewater, IAT=Tissue, A=Air) | |
| BAW-1 | | 10-21-22 | | 1413 | | G | | W | |
| BAW-3 | | 10-21-22 | | 1714 | | G | | W | |
| BAW-4 | | 10-21-22 | | 1253 | | G | | W | |
| BAW-5 | | 10-21-22 | | 0844 | | G | | W | |
| BAW-7 | | 10-21-22 | | 1551 | | G | | W | |
| BAW-8 | | 10-21-22 | | 1155 | | G | | W | |
| BAW-9 | | 10-21-22 | | 0955 | | G | | W | |
| DWP-01 | | 10-21-22 | | 1313 | | G | | W | |
| EB-01 | | 10-21-22 | | 1412 | | G | | W | |
| FB-01 | | 10-21-22 | | 1403 | | G | | W | |
| Possible Hazard Identification | | Non-Hazard <input type="checkbox"/> | | Flammable <input type="checkbox"/> | | Skin Irritant <input type="checkbox"/> | | Radiological <input type="checkbox"/> | |
| Deliverable Requested I, II, III, IV, Other (specify) | | Poison B <input type="checkbox"/> | | Unknown <input type="checkbox"/> | | Return To Client <input type="checkbox"/> | | Disposal By Lab <input type="checkbox"/> | |
| Empty Kit Relinquished by | | Date | | Time | | Method of Shipment: | | Archive For | |
| Relinquished by: <i>[Signature]</i> | | Date/Time: 10-24-22 0734 | | Company: PPH EMV | | Received by: <i>[Signature]</i> | | Date/Time: 10-25-22 9:00 | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | |
| Custody Seals Intact: <input type="checkbox"/> | | 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"/> | |
| Δ Yes Δ No | | | | | | | | Months | |



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

ORIGIN ID:PFNA (412) 963-7058

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 25OCT22
ACTWGT: 61.00 LB
CAD: 6994761/SSFE2341
DIMS: 22x14x13 IN

BILL THIRD PARTY

Part # 160297-436-3R35B/1508/5/23

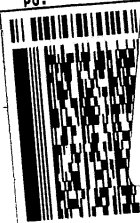


TO TEST AMERICA

301 ALPHA DR

PITTSBURGH PA 15238

(000) 000-0000
INV: PG: REF: DEPT:



Uncorrected temp
Thermometer ID

4.2 °C

FedEx Express



CF 0 Initials MS

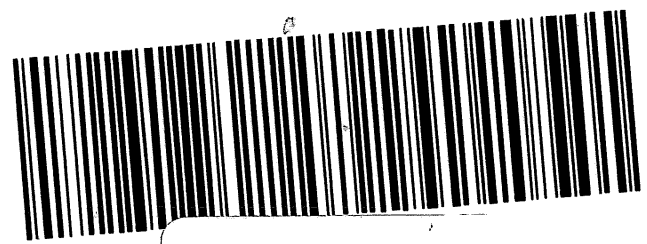
PT-WI-SR-001 effective 7/26/13

WED - 26 OCT 10:30A
PRIORITY OVERNIGHT

1 of 2
TRK# 2795 5815 8794
0201
MASTER

XN AGCA

15238
PA-US PIT



10:26
8794

A 10:30 99 RT FZ

ORIGIN ID:PFNA (412) 963-7058

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 25OCT22
ACTWGT: 63.00 LB
CAD: 6994761/SSFE2341
DIMS: 22x14x13 IN

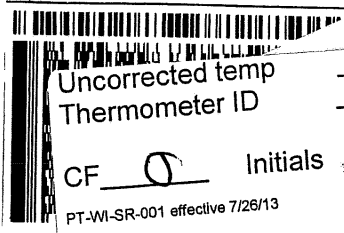
BILL THIRD PARTY

TO TEST AMERICA

301 ALPHA DR

PITTSBURGH PA 15238

(000) 000-0000
INV: PG: REF:



Uncorrected temp
Thermometer ID

4.5 °C

FedEx Express



CF 0 Initials MS

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

2 of 2
MPS# 2795 5815 8809
0263
Mstr# 2795 5815 8794

WED - 26 OCT 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PI



Chain of Custody Record

| | | | | | |
|--|---|--|--|--|---|
| Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: Eurofins America Laboratories, Inc. Address: 13715 Rider Trail North, Earth City, MO 63045 Phone: 314-298-6566 (Tel) 314-298-8757 (Fax) Email: [Redacted] Project Name: Plant Daniel Ash Pond B Site: SSO2W# | | Sampler: Brown, Shali Lab PM: Brown, Shali E-Mail: Shali.Brown@eurofins.com Phone: [Redacted] | | Carrier Tracking No(s): 180-472773 1 State of Origin: Mississippi Page: Page 1 of 2 Job #: 180-146922-1 | |
| Due Date Requested: 1/28/2022 TAT Requested (days): | | | | | |
| Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 9320_R428PrncScp_0 Standard Target List <input checked="" type="checkbox"/> 9315_R428PrncScp_21 Radium 226 <input checked="" type="checkbox"/> R428R428_GFPc <input checked="" type="checkbox"/> | | | | | |
| Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - HNO3 E - H2SO4 F - MeOH G - Amchlor H - Ascorbic Acid I - DI Water J - EDTA K - EDTA L - EDA Z - other (specify) Other: | | | | | |
| Total Number of containers: | | | | | |
| Special Instructions/Note: | | | | | |
| Sample Identification - Client ID (Lab ID) BAW-1 (180-146922-1) BAW-3 (180-146922-2) BAW-4 (180-146922-3) BAW-5 (180-146922-4) BAW-7 (180-146922-5) BAW-8 (180-146922-6) BAW-9 (180-146922-7) DUP-01 (180-146922-8) EB-01 (180-146922-9) | Sample Date 10/21/22 10/21/22 10/21/22 10/21/22 10/21/22 10/21/22 10/21/22 10/21/22 10/21/22 | Sample Time Central Central Central Central Central Central Central Central Central | Matrix Type Water Water Water Water Water Water Water Water Water | Preservation Code 14-13 12-53 08-44 15-51 09-55 13-13 14-12 14-12 | Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> |

Note: Since laboratory accreditation are subject to change, Eurofins Pittsburgh 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 for the analyte, Eurofins Pittsburgh will forward the sample to a laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the agreed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Reinquished by: [Redacted] Date: [Redacted]
 Reinquished by: FEDEX
 Reinquished by: [Redacted] Date/Time: 10/28/2022 08:00
 Reinquished by: [Redacted] Date/Time: [Redacted]
 Reinquished by: [Redacted] Date/Time: [Redacted]
 Custody Seals Intact: [Redacted] Custody Seal No. [Redacted]
 Δ Yes Δ No



| | | | | | | | | | |
|---|--|---|--|--|--|---|--|---|--|
| Client Information (Sub Contract Lab) | | Sampler | | Lab PM | | Carrier Tracking No(s) | | COC No | |
| Client Contact: Shipping/Receiving | | Phone | | E-Mail | | State of Origin | | 180-472773 2 | |
| Company: TestAmerica Laboratories, Inc. | | Address: 13715 Rider Trail North, Earth City, MO, 63045 | | Phone: 314-298-8566(Tel) 314-298-8757(Fax) | | E-Mail: Shall.Brown@eurofins.com | | Page 2 of 2 | |
| City: Earth City, MO, 63045 | | State: Mo | | Zip: MO, 63045 | | Accreditations Required (See note) | | Job # 180-146922-1 | |
| Project Name: Plant Daniel Ash Pond B | | Project # 18020047 | | WO # | | Analysis Requested | | Preservation Codes: | |
| Site: S50WV | | Sample Date: 10/21/22 | | Sample Time: 14:02 | | Sample Type: (C=comb, G=grab) | | M - Hexane B - NaOH C - Nitric Acid D - Nitric Acid E - NH4SO4 F - HNO3 G - Ammonium Acetate H - Acetic Acid I - Ice J - DI Water K - EDTA L - EDA Other: | |
| Sample Identification - Client ID (Lab ID): FB-01 (180-146922-10) | | Sample Date: 10/21/22 | | Sample Time: 14:02 | | Sample Type: (C=comb, G=grab) | | M - Hexane O - ANAO2 P - Na2O4S Q - Na2SO3 R - NaOH S - H2SO4 T - TSP Dodecylsulfate U - Acetone V - pH 4.5 W - pH 7 Y - Trizma Z - other (specify) | |
| Matrix (Residue, Swab, Overhead, etc.) | | Sample Type (C=comb, G=grab) | | Preservation Code | | Matrix | | Special Instructions/Note: | |
| Water | | Water | | Water | | Water | | | |
| Form M/MSD (Yes or No) | | Shield Filtered Sample (Yes or No) | | Perform M/MSD (Yes or No) | | 9320_Ra228Pr/cscsp_Standard Target List | | Total Number of containers | |
| X | | X | | X | | 9315_Ra228Pr/cscsp_21 Radium 226 | | 2 | |
| R4228R4228_GPFC | | | | | | | | | |

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh 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 hold the accreditation for the analyte, Eurofins Pittsburgh will forward the sample to a laboratory that does. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

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

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *MD* Date/Time: 10-28-22 1800
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:

Received by: *MD* Date/Time: 10/28/22 1800
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Method of Shipment: **FED EX**
 Company: **EXPATL**



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-146922-1

Login Number: 146922

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

| 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: 180-146922-1

Login Number: 146922

List Number: 2

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 10/31/22 12:37 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 | |



Low-Flow Test Report:

Test Date / Time: 10/5/2022 4:46:07 PM

Project: Daniel CCR BAW-1

Operator Name: Rick Hagendorfer

| | | |
|--|---|--|
| Location Name: Daniel CCR BAW-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 55.6 ft Total Depth: 60.6 ft Initial Depth to Water: 46.52 ft | Pump Type: BP Tubing Type: PE Pump Intake From TOC: 58.1 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.07 ft | Instrument Used: Aqua TROLL 400 Serial Number: 852546 |
|--|---|--|

Test Notes:

Weather Conditions:

P/C 84.

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 | +/- 0.3 | |
| 10/5/2022 4:46 PM | 00:00 | 6.31 pH | 33.89 °C | 41.19 µS/cm | 6.77 mg/L | | 68.8 mV | 46.52 ft | 400.00 ml/min |
| 10/5/2022 4:51 PM | 05:00 | 4.95 pH | 23.69 °C | 51.02 µS/cm | 3.85 mg/L | 0.16 NTU | 71.8 mV | 46.59 ft | 400.00 ml/min |
| 10/5/2022 4:56 PM | 10:00 | 4.91 pH | 23.07 °C | 50.62 µS/cm | 3.73 mg/L | 0.96 NTU | 73.9 mV | 46.59 ft | 400.00 ml/min |
| 10/5/2022 5:01 PM | 15:00 | 4.91 pH | 22.85 °C | 50.59 µS/cm | 3.73 mg/L | 0.66 NTU | 76.1 mV | 46.59 ft | 400.00 ml/min |
| 10/5/2022 5:06 PM | 20:00 | 4.91 pH | 22.79 °C | 50.55 µS/cm | 3.71 mg/L | 0.38 NTU | 77.0 mV | 46.59 ft | 400.00 ml/min |
| 10/5/2022 5:11 PM | 25:00 | 4.91 pH | 22.71 °C | 50.41 µS/cm | 3.70 mg/L | 0.30 NTU | 78.5 mV | 46.59 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|-------------------|
| BAW-1 | Sample time 1714. |

Low-Flow Test Report:

Test Date / Time: 10/5/2022 5:50:45 PM

Project: Daniel CCR BAW-3

Operator Name: Rick Hagendorfer

| | | |
|---|---|--|
| Location Name: Daniel CCR BAW-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 58.4 ft Total Depth: 68.4 ft Initial Depth to Water: 58.31 ft | Pump Type: BP Tubing Type: PE Pump Intake From TOC: 63.4 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.05 ft | Instrument Used: Aqua TROLL 400 Serial Number: 852546 |
|---|---|--|

Test Notes:

Weather Conditions:

Sunny 81.

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 | +/- 0.3 | |
| 10/5/2022 5:50 PM | 00:00 | 4.56 pH | 24.51 °C | 51.18 µS/cm | 1.75 mg/L | | 86.6 mV | 58.31 ft | 400.00 ml/min |
| 10/5/2022 5:55 PM | 05:00 | 4.53 pH | 24.06 °C | 52.56 µS/cm | 0.83 mg/L | 0.97 NTU | 87.7 mV | 58.36 ft | 400.00 ml/min |
| 10/5/2022 6:00 PM | 10:00 | 4.51 pH | 23.96 °C | 52.21 µS/cm | 0.74 mg/L | 1.09 NTU | 89.5 mV | 58.36 ft | 400.00 ml/min |
| 10/5/2022 6:05 PM | 15:00 | 4.51 pH | 23.85 °C | 52.01 µS/cm | 0.70 mg/L | 1.34 NTU | 89.3 mV | 58.36 ft | 400.00 ml/min |
| 10/5/2022 6:10 PM | 20:00 | 4.51 pH | 23.78 °C | 51.92 µS/cm | 0.68 mg/L | 0.62 NTU | 90.8 mV | 58.36 ft | 400.00 ml/min |
| 10/5/2022 6:15 PM | 25:00 | 4.51 pH | 23.74 °C | 51.93 µS/cm | 0.69 mg/L | 0.31 NTU | 90.9 mV | 58.36 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|-------------------|
| BAW-3 | Sample time 1820. |

Low-Flow Test Report:

Test Date / Time: 10/5/2022 1:40:45 PM

Project: Daniel CCR BAW-4

Operator Name: Rick Hagendorfer

| | | |
|---|---|--|
| Location Name: Daniel CCR BAW-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 59.9 ft Total Depth: 69.9 ft Initial Depth to Water: 51.84 ft | Pump Type: BP Tubing Type: PE Pump Intake From TOC: 64.9 ft Estimated Total Volume Pumped: 34000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.04 ft | Instrument Used: Aqua TROLL 400 Serial Number: 852546 |
|---|---|--|

Test Notes:

Weather Conditions:

P/C 83

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 | +/- 0.3 | |
| 10/5/2022 1:40 PM | 00:00 | 4.07 pH | 25.23 °C | 4,262.8 µS/cm | 8.49 mg/L | | 210.1 mV | 51.84 ft | 400.00 ml/min |
| 10/5/2022 1:45 PM | 05:00 | 5.45 pH | 23.80 °C | 80.37 µS/cm | 0.30 mg/L | 69.20 NTU | 81.2 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 1:50 PM | 10:00 | 5.48 pH | 23.73 °C | 82.09 µS/cm | 0.25 mg/L | 10.40 NTU | 75.5 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 1:55 PM | 15:00 | 5.50 pH | 23.85 °C | 83.13 µS/cm | 0.24 mg/L | 10.00 NTU | 70.2 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 2:00 PM | 20:00 | 5.52 pH | 24.35 °C | 83.93 µS/cm | 0.23 mg/L | 3.21 NTU | 65.9 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 2:05 PM | 25:00 | 5.54 pH | 23.79 °C | 84.28 µS/cm | 0.23 mg/L | 2.23 NTU | 62.8 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 2:10 PM | 30:00 | 5.55 pH | 23.80 °C | 84.53 µS/cm | 0.23 mg/L | 1.81 NTU | 59.8 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 2:15 PM | 35:00 | 5.54 pH | 23.70 °C | 84.78 µS/cm | 0.22 mg/L | 2.11 NTU | 57.8 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 2:20 PM | 40:00 | 5.54 pH | 23.70 °C | 84.90 µS/cm | 0.23 mg/L | 2.24 NTU | 55.3 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 2:25 PM | 45:00 | 5.55 pH | 23.73 °C | 84.59 µS/cm | 0.22 mg/L | 2.73 NTU | 53.0 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 2:30 PM | 50:00 | 5.56 pH | 23.70 °C | 84.33 µS/cm | 0.22 mg/L | 3.39 NTU | 51.1 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 2:35 PM | 55:00 | 5.56 pH | 23.60 °C | 84.45 µS/cm | 0.22 mg/L | 2.93 NTU | 49.6 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 2:40 PM | 01:00:00 | 5.55 pH | 23.61 °C | 84.79 µS/cm | 0.22 mg/L | 2.95 NTU | 48.0 mV | 51.88 ft | 400.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|-------------|-----------|----------|---------|----------|---------------|
| 10/5/2022 2:45 PM | 01:05:00 | 5.55 pH | 23.52 °C | 84.30 µS/cm | 0.21 mg/L | 3.62 NTU | 46.7 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 2:50 PM | 01:10:00 | 5.56 pH | 23.50 °C | 84.63 µS/cm | 0.22 mg/L | 3.96 NTU | 45.1 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 2:55 PM | 01:15:00 | 5.57 pH | 23.88 °C | 84.95 µS/cm | 0.21 mg/L | 2.36 NTU | 42.8 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 3:00 PM | 01:20:00 | 5.57 pH | 24.06 °C | 84.87 µS/cm | 0.21 mg/L | 2.08 NTU | 41.7 mV | 51.88 ft | 400.00 ml/min |
| 10/5/2022 3:05 PM | 01:25:00 | 5.57 pH | 24.06 °C | 84.97 µS/cm | 0.21 mg/L | 2.04 NTU | 40.6 mV | 51.88 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| BAW-4 | Sample time 1510. Dup-03 fake sample time 1410. |

Low-Flow Test Report:

Test Date / Time: 10/6/2022 10:56:55 AM

Project: Daniel CCR BAW-5

Operator Name: Trevor Braddock

| | | |
|--|--|--|
| Location Name: Daniel ccr baw-5 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 59.1 ft Total Depth: 69.1 ft Initial Depth to Water: 52.75 ft | Pump Type: QED Tubing Type: Pe Pump Intake From TOC: 64.1 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.09 ft | Instrument Used: Aqua TROLL 400 Serial Number: 736137 |
|--|--|--|

Test Notes:

Weather Conditions:

Sunny 82

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 | +/- 20 | +/- 0.3 | |
| 10/6/2022 10:56 AM | 00:00 | 6.39 pH | 17.71 °C | 199.78 µS/cm | 1.57 mg/L | 1.54 NTU | 30.9 mV | 52.75 ft | 400.00 ml/min |
| 10/6/2022 11:01 AM | 05:00 | 6.28 pH | 15.77 °C | 207.13 µS/cm | 0.37 mg/L | 1.52 NTU | 31.6 mV | 52.84 ft | 400.00 ml/min |
| 10/6/2022 11:06 AM | 10:00 | 6.27 pH | 15.91 °C | 206.27 µS/cm | 0.30 mg/L | 0.81 NTU | 31.9 mV | 52.84 ft | 400.00 ml/min |
| 10/6/2022 11:11 AM | 15:00 | 6.27 pH | 15.77 °C | 206.96 µS/cm | 0.29 mg/L | 0.84 NTU | 31.7 mV | 52.84 ft | 400.00 ml/min |
| 10/6/2022 11:16 AM | 20:00 | 6.27 pH | 15.82 °C | 206.80 µS/cm | 0.28 mg/L | 0.75 NTU | 31.5 mV | 52.84 ft | 400.00 ml/min |
| 10/6/2022 11:21 AM | 25:00 | 6.27 pH | 15.63 °C | 207.54 µS/cm | 0.29 mg/L | 0.81 NTU | 31.4 mV | 52.84 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|------------------|
| Baw-5 | Sample time 1123 |

Low-Flow Test Report:

Test Date / Time: 10/6/2022 9:18:58 AM

Project: Daniel CCR BAW-7

Operator Name: Rick Hagendorfer

| | | |
|---|---|--|
| Location Name: Daniel CCR BAW-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 58.2 ft Total Depth: 68.2 ft Initial Depth to Water: 57.56 ft | Pump Type: BP Tubing Type: PE Pump Intake From TOC: 63.2 ft Estimated Total Volume Pumped: 66000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.16 ft | Instrument Used: Aqua TROLL 400 Serial Number: 852546 |
|---|---|--|

Test Notes:

Well has been modified. Bottom depths are measured from T.O.C. So bottom depth is different for this event.

Weather Conditions:

Sunny 73

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 | +/- 0.3 | |
| 10/6/2022 9:18 AM | 00:00 | 5.38 pH | 23.31 °C | 210.00 µS/cm | 3.42 mg/L | 24.10 NTU | 104.9 mV | 57.56 ft | 400.00 ml/min |
| 10/6/2022 9:23 AM | 05:00 | 4.67 pH | 22.67 °C | 212.34 µS/cm | 1.81 mg/L | 16.40 NTU | 103.1 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 9:28 AM | 10:00 | 4.66 pH | 22.47 °C | 210.34 µS/cm | 1.75 mg/L | 7.40 NTU | 106.2 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 9:33 AM | 15:00 | 4.66 pH | 22.45 °C | 209.21 µS/cm | 1.71 mg/L | 7.61 NTU | 108.4 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 9:38 AM | 20:00 | 4.67 pH | 22.53 °C | 214.33 µS/cm | 1.72 mg/L | 7.24 NTU | 110.1 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 9:43 AM | 25:00 | 4.68 pH | 22.54 °C | 213.28 µS/cm | 1.66 mg/L | 7.00 NTU | 110.9 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 9:48 AM | 30:00 | 4.67 pH | 22.62 °C | 215.84 µS/cm | 1.58 mg/L | 7.16 NTU | 112.6 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 9:53 AM | 35:00 | 4.68 pH | 22.62 °C | 215.13 µS/cm | 1.55 mg/L | 5.26 NTU | 113.4 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 9:58 AM | 40:00 | 4.68 pH | 22.71 °C | 216.67 µS/cm | 1.51 mg/L | 4.97 NTU | 114.0 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 10:03 AM | 45:00 | 4.68 pH | 22.68 °C | 217.52 µS/cm | 1.46 mg/L | 5.06 NTU | 115.5 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 10:08 AM | 50:00 | 4.68 pH | 22.76 °C | 221.37 µS/cm | 1.43 mg/L | 4.99 NTU | 116.0 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 10:13 AM | 55:00 | 4.69 pH | 22.83 °C | 218.44 µS/cm | 1.41 mg/L | 4.85 NTU | 116.2 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 10:18 AM | 01:00:00 | 4.68 pH | 22.77 °C | 215.87 µS/cm | 1.52 mg/L | 3.75 NTU | 117.0 mV | 57.72 ft | 400.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|---------------|
| 10/6/2022 10:23 AM | 01:05:00 | 4.69 pH | 22.82 °C | 215.26 µS/cm | 1.52 mg/L | 3.62 NTU | 117.0 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 10:28 AM | 01:10:00 | 4.69 pH | 22.92 °C | 217.67 µS/cm | 1.38 mg/L | 3.58 NTU | 117.9 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 10:33 AM | 01:15:00 | 4.69 pH | 22.98 °C | 220.77 µS/cm | 1.33 mg/L | 3.43 NTU | 118.3 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 10:38 AM | 01:20:00 | 4.70 pH | 23.00 °C | 221.45 µS/cm | 1.31 mg/L | 3.46 NTU | 118.7 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 10:43 AM | 01:25:00 | 4.70 pH | 22.93 °C | 221.40 µS/cm | 1.29 mg/L | 3.24 NTU | 119.0 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 10:48 AM | 01:30:00 | 4.70 pH | 23.00 °C | 220.72 µS/cm | 1.28 mg/L | 3.18 NTU | 119.6 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 10:53 AM | 01:35:00 | 4.70 pH | 22.98 °C | 221.77 µS/cm | 1.25 mg/L | 3.10 NTU | 120.1 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 10:58 AM | 01:40:00 | 4.70 pH | 23.02 °C | 219.36 µS/cm | 1.29 mg/L | 2.86 NTU | 120.5 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 11:03 AM | 01:45:00 | 4.70 pH | 23.08 °C | 220.93 µS/cm | 1.25 mg/L | 2.78 NTU | 120.4 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 11:08 AM | 01:50:00 | 4.70 pH | 23.12 °C | 220.30 µS/cm | 1.27 mg/L | 2.60 NTU | 120.7 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 11:13 AM | 01:55:00 | 4.70 pH | 23.16 °C | 220.67 µS/cm | 1.26 mg/L | 2.54 NTU | 121.1 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 11:18 AM | 02:00:00 | 4.70 pH | 23.28 °C | 219.68 µS/cm | 1.23 mg/L | 2.45 NTU | 121.5 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 11:23 AM | 02:05:00 | 4.70 pH | 23.28 °C | 221.01 µS/cm | 1.24 mg/L | 2.39 NTU | 121.6 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 11:28 AM | 02:10:00 | 4.71 pH | 23.31 °C | 217.07 µS/cm | 1.36 mg/L | 2.00 NTU | 121.4 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 11:33 AM | 02:15:00 | 4.71 pH | 23.25 °C | 220.29 µS/cm | 1.27 mg/L | 2.10 NTU | 122.1 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 11:38 AM | 02:20:00 | 4.71 pH | 23.43 °C | 222.48 µS/cm | 1.23 mg/L | 2.45 NTU | 122.2 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 11:43 AM | 02:25:00 | 4.71 pH | 23.61 °C | 220.98 µS/cm | 1.22 mg/L | 2.13 NTU | 122.1 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 11:48 AM | 02:30:00 | 4.70 pH | 23.42 °C | 219.34 µS/cm | 1.21 mg/L | 1.94 NTU | 122.5 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 11:53 AM | 02:35:00 | 4.71 pH | 23.65 °C | 221.10 µS/cm | 1.21 mg/L | 1.96 NTU | 122.3 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 11:58 AM | 02:40:00 | 4.71 pH | 23.70 °C | 221.73 µS/cm | 1.21 mg/L | 1.99 NTU | 122.7 mV | 57.72 ft | 400.00 ml/min |
| 10/6/2022 12:03 PM | 02:45:00 | 4.71 pH | 23.65 °C | 219.75 µS/cm | 1.21 mg/L | 1.98 NTU | 122.7 mV | 57.72 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|---|
| BAW-7 | Sample time 1207. Dup-04 fake sample time 1107. EB-03 sample time 0855. FB-03 sample time 0931. |

Low-Flow Test Report:

Test Date / Time: 10/6/2022 9:42:17 AM

Project: Daniel CCR BAW-8

Operator Name: Trevor Braddock

| | | |
|--|--|--|
| Location Name: Daniel CCR BAW-8 Well Diameter: 2 in Screen Length: 63.7 ft Top of Screen: 58.7 ft Total Depth: 68.7 ft Initial Depth to Water: 54.34 ft | Pump Type: BP Tubing Type: Pe Pump Intake From TOC: 63.7 ft Estimated Total Volume Pumped: 8000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.08 ft | Instrument Used: Aqua TROLL 400 Serial Number: 736137 |
|--|--|--|

Test Notes:

Weather Conditions:

Sunny 73

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 | +/- 20 | +/- 0.3 | |
| 10/6/2022 9:42 AM | 00:00 | 6.16 pH | 16.49 °C | 383.46 µS/cm | 0.24 mg/L | 0.60 NTU | 25.4 mV | 54.34 ft | 400.00 ml/min |
| 10/6/2022 9:47 AM | 05:00 | 6.17 pH | 15.88 °C | 387.46 µS/cm | 0.22 mg/L | 0.63 NTU | 20.5 mV | 54.42 ft | 400.00 ml/min |
| 10/6/2022 9:52 AM | 10:00 | 6.17 pH | 15.92 °C | 390.29 µS/cm | 0.21 mg/L | 0.54 NTU | 15.9 mV | 54.42 ft | 400.00 ml/min |
| 10/6/2022 9:57 AM | 15:00 | 6.18 pH | 15.95 °C | 390.43 µS/cm | 0.21 mg/L | 0.47 NTU | 11.1 mV | 54.42 ft | 400.00 ml/min |
| 10/6/2022 10:02 AM | 20:00 | 6.19 pH | 15.92 °C | 388.33 µS/cm | 0.21 mg/L | 0.33 NTU | 7.0 mV | 54.42 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|------------------|
| BAW-8 | Sample time 1002 |

Low-Flow Test Report:

Test Date / Time: 10/6/2022 8:14:00 AM

Project: Daniel CCR BAW-9

Operator Name: Trevor Braddock

| | | |
|--|--|--|
| Location Name: Daniel CCR BAW-9 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 53.1 ft Total Depth: 63.1 ft Initial Depth to Water: 52.61 ft | Pump Type: BP Tubing Type: Pe Pump Intake From TOC: 58.1 ft Estimated Total Volume Pumped: 8000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.13 ft | Instrument Used: Aqua TROLL 400 Serial Number: 736137 |
|--|--|--|

Test Notes:

Weather Conditions:

Sunny 62

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 | +/- 20 | +/- 0.3 | |
| 10/6/2022 8:14 AM | 00:00 | 6.00 pH | 15.23 °C | 325.45 µS/cm | 0.40 mg/L | 3.79 NTU | 86.9 mV | 52.61 ft | 400.00 ml/min |
| 10/6/2022 8:19 AM | 05:00 | 6.01 pH | 15.14 °C | 326.69 µS/cm | 0.36 mg/L | 1.93 NTU | 77.8 mV | 52.74 ft | 400.00 ml/min |
| 10/6/2022 8:24 AM | 10:00 | 6.02 pH | 15.21 °C | 326.36 µS/cm | 0.29 mg/L | 1.40 NTU | 69.5 mV | 52.74 ft | 400.00 ml/min |
| 10/6/2022 8:29 AM | 15:00 | 6.03 pH | 15.27 °C | 325.95 µS/cm | 0.24 mg/L | 1.02 NTU | 62.9 mV | 52.74 ft | 400.00 ml/min |
| 10/6/2022 8:34 AM | 20:00 | 6.03 pH | 15.39 °C | 325.94 µS/cm | 0.25 mg/L | 1.09 NTU | 56.9 mV | 52.74 ft | 400.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|------------------|
| BAW-9 | Sample time 0836 |

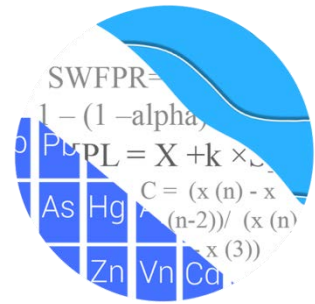
Appendix B

1st
Semi-Annual
Monitoring Event

GROUNDWATER STATS CONSULTING

May 16, 2022

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243



Re: Plant Daniel Bottom Ash Pond
2022 Annual Statistical Analysis – March 2022 Sample Event

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the 2022 Groundwater Detection and Assessment Monitoring Annual report for Mississippi Power Company's Plant Daniel Bottom Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at Daniel Bottom Ash Pond for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** BAW-1 and BAW-2A
- **Downgradient wells:** BAW-3, BAW-4, BAW-5, and BAW-7

Upgradient well BAW-2 was last sampled in October 2017 and has since been abandoned; however, data for this well are included to represent historical naturally occurring groundwater quality upgradient of the ash pond. Replacement upgradient well BAW-2A was first sampled in March 2018 and has since been sampled to supplement existing upgradient data for BAW-2.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting.

The CCR program monitors the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- **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

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of Appendix IV downgradient well/constituent pairs containing 100% non-detects follow this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data. This generally gives the most conservative limit in each case.

Time series plots for Appendix III and IV parameters are provided for all wells and are used to evaluate concentrations over time (Figure A). Additionally, box plots are included for all constituents at upgradient and downgradient wells (Figure B). Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graph. A summary of these values follows this letter (Figure C). 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.

During the previous screening, data at all wells were evaluated 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. Power curves were provided with the screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance recommendations as discussed below.

Summary of Statistical Methods

Based on the evaluation for federal regulatory requirements, the following methods were selected for Appendix III constituents:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric prediction limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric prediction limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as "<" the original reporting limit.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. In some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening Conducted in October 2017

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. No suspected outliers were observed in any of the proposed background data at upgradient wells. When any values are identified as outliers, they are plotted in a lighter font on the time series graph.

Seasonality

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

Trend Test Evaluation

While trends may be visual, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed a couple statistically significant decreasing and increasing trends. All trends noted were relatively low in magnitude when compared to average concentrations, therefore, no adjustments were made to any of the data sets.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA showed no variation for calcium, chloride, pH, sulfate, and TDS, making these parameters eligible for interwell methods. Boron and fluoride contained 100% non-detects and, therefore, could not be tested with the ANOVA. These parameters are also eligible for interwell methods since no variation is present. A summary table of the ANOVA results was included with the October 2017 screening.

Background Update – Appendix III Parameters – November 2019

Prior to updating background data, samples were re-evaluated for outliers at upgradient wells for all constituents. An updated summary of Tukey's test results and flagged outliers was included with the 2019 Background Update report.

The Sen's Slope/Mann-Kendall trend test was used to determine whether concentrations are statistically increasing, decreasing or stable at upgradient wells. No statistically significant increasing or decreasing trends were noted with the exception of decreasing trends for calcium and pH in well BAW-2, which has since been abandoned. The magnitude of these trends, however, was low relative to the average concentrations in these wells. Therefore, no adjustments were required at that time; and these results were included in the 2019 Background Update report.

Statistical Analysis of Appendix III Parameters – March 2022

Prior to constructing interwell prediction limits, data through the March 2022 sample event at upgradient wells were re-evaluated for outliers using visual screening. No new outliers were suspected or flagged during this analysis. Tukey's outlier test had previously identified an outlier for calcium at well BAW-2 during the November 2019 statistical analysis; therefore, this value remains flagged. A summary of flagged data follows this

report (Figure C). Additionally, any flagged values are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages.

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample strategy, were established for each of the Appendix III parameters using pooled historical upgradient well data through March 2022 (Figure D). The reported measurements at downgradient wells for the March 2022 sample event were compared to the interwell prediction limits to determine whether initial exceedances are present.

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 the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary. Complete graphical results of the prediction limits may be found following this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: BAW-5 and BAW-7
- Calcium: BAW-4 and BAW-5
- Chloride: BAW-4
- Fluoride: BAW-5
- pH: BAW-4 and BAW-5
- Sulfate: BAW-3, BAW-4, BAW-5, and BAW-7
- TDS: BAW-4 and BAW-5

Trend Test Evaluation

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. The existence of similar trends in both upgradient and downgradient wells is an indication of natural variability in groundwater that is unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Sulfate: BAW-4

Decreasing:

- Calcium: BAW-2 (upgradient)
- pH: BAW-2 (upgradient) and BAW-5
- Sulfate: BAW-1 (upgradient)

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits) or site-specific limits that are based on upgradient groundwater quality. Site-specific background limits are determined using upper tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. The methods are described below.

Evaluation of Appendix IV Parameters – March 2022

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged during this analysis. Tukey's outlier test had previously identified an outlier for lithium at upgradient well BAW-1 during the November 2019 statistical analysis, and this value remains flagged. A summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Parametric upper tolerance limits were used to calculate background limits from pooled upgradient well data through March 2022 for Appendix IV parameters with a target of 95% confidence and 95% coverage to determine background limits (Figure F). The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The interwell upper tolerance limits were compared to the Maximum Contaminant Levels (MCLs), CCR Rule-Specified levels, and background limits in the Groundwater Protection Standard (GWPS) table following this letter to determine the highest limit for use as the GWPS in the Confidence Interval comparisons (Figure G).

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using all data through March 2022 for each of the Appendix IV parameters and compared to the GWPS, i.e., the highest limit of the MCL, CCR Rule-Specified level, or background limit as discussed above (Figure H). Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. Complete graphical results of the confidence interval follow this letter. An exceedance was identified for the following well/constituent pair:

- Lithium: BAW-5

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

For Groundwater Stats Consulting,



Abdul Diane
Groundwater Analyst



Andrew T. Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient

Analysis Run 5/2/2022 5:17 PM View: Appendix IV - Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Antimony (mg/L)
BAW-3, BAW-4, BAW-5, BAW-7

Arsenic (mg/L)
BAW-3

Beryllium (mg/L)
BAW-3, BAW-4, BAW-5

Cadmium (mg/L)
BAW-4, BAW-7

Molybdenum (mg/L)
BAW-3

Selenium (mg/L)
BAW-4

Thallium (mg/L)
BAW-4, BAW-5

Appendix III Interwell Prediction Limits - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/9/2022, 5:57 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Obsrv. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------------|-------|------------|------------|-----------|--------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L) | BAW-5 | 0.0928 | n/a | 3/16/2022 | 0.695 | Yes | 42 | n/a | n/a | 88.1 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-7 | 0.0928 | n/a | 3/16/2022 | 0.247 | Yes | 42 | n/a | n/a | 88.1 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | BAW-4 | 2.8 | n/a | 3/16/2022 | 8.94 | Yes | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | BAW-5 | 2.8 | n/a | 3/16/2022 | 23.8 | Yes | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-4 | 16.4 | n/a | 3/16/2022 | 17.9 | Yes | 40 | n/a | n/a | 0 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | BAW-5 | 0.1 | n/a | 3/16/2022 | 0.176 | Yes | 42 | n/a | n/a | 90.48 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| pH (SU) | BAW-4 | 5.399 | 4.542 | 3/16/2022 | 5.56 | Yes | 40 | 2.227 | 0.05266 | 0 | None | sqrt(x) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-5 | 5.399 | 4.542 | 3/16/2022 | 6.2 | Yes | 40 | 2.227 | 0.05266 | 0 | None | sqrt(x) | 0.0009398 | Param Inter 1 of 2 |
| Sulfate (mg/L) | BAW-3 | 5.37 | n/a | 3/16/2022 | 6.85 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-4 | 5.37 | n/a | 3/16/2022 | 5.64 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-5 | 5.37 | n/a | 3/16/2022 | 23.1 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-7 | 5.37 | n/a | 3/16/2022 | 5.93 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-4 | 58.7 | n/a | 3/16/2022 | 66 | Yes | 40 | 4.916 | 1.503 | 5 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-5 | 58.7 | n/a | 3/16/2022 | 133 | Yes | 40 | 4.916 | 1.503 | 5 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 |

Appendix III Interwell Prediction Limits - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/9/2022, 5:57 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------------------|--------------|---------------|--------------|------------------|--------------|------------|-----------|--------------|----------------|--------------|-------------|----------------|------------------|------------------------------------|
| Boron (mg/L) | BAW-3 | 0.0928 | n/a | 3/16/2022 | 0.08ND | No | 42 | n/a | n/a | 88.1 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-4 | 0.0928 | n/a | 3/16/2022 | 0.084 | No | 42 | n/a | n/a | 88.1 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-5 | 0.0928 | n/a | 3/16/2022 | 0.695 | Yes | 42 | n/a | n/a | 88.1 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-7 | 0.0928 | n/a | 3/16/2022 | 0.247 | Yes | 42 | n/a | n/a | 88.1 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | BAW-3 | 2.8 | n/a | 3/16/2022 | 0.78 | No | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | BAW-4 | 2.8 | n/a | 3/16/2022 | 8.94 | Yes | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | BAW-5 | 2.8 | n/a | 3/16/2022 | 23.8 | Yes | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | BAW-7 | 2.8 | n/a | 3/16/2022 | 1.28 | No | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-3 | 16.4 | n/a | 3/16/2022 | 7.94 | No | 40 | n/a | n/a | 0 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-4 | 16.4 | n/a | 3/16/2022 | 17.9 | Yes | 40 | n/a | n/a | 0 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-5 | 16.4 | n/a | 3/16/2022 | 10.6 | No | 40 | n/a | n/a | 0 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-7 | 16.4 | n/a | 3/16/2022 | 13 | No | 40 | n/a | n/a | 0 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | BAW-3 | 0.1 | n/a | 3/16/2022 | 0.0307J | No | 42 | n/a | n/a | 90.48 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | BAW-4 | 0.1 | n/a | 3/16/2022 | 0.0462J | No | 42 | n/a | n/a | 90.48 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | BAW-5 | 0.1 | n/a | 3/16/2022 | 0.176 | Yes | 42 | n/a | n/a | 90.48 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | BAW-7 | 0.1 | n/a | 3/16/2022 | 0.0266J | No | 42 | n/a | n/a | 90.48 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| pH (SU) | BAW-3 | 5.399 | 4.542 | 3/16/2022 | 4.64 | No | 40 | 2.227 | 0.05266 | 0 | None | sqrt(x) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-4 | 5.399 | 4.542 | 3/16/2022 | 5.56 | Yes | 40 | 2.227 | 0.05266 | 0 | None | sqrt(x) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-5 | 5.399 | 4.542 | 3/16/2022 | 6.2 | Yes | 40 | 2.227 | 0.05266 | 0 | None | sqrt(x) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-7 | 5.399 | 4.542 | 3/16/2022 | 4.75 | No | 40 | 2.227 | 0.05266 | 0 | None | sqrt(x) | 0.0009398 | Param Inter 1 of 2 |
| Sulfate (mg/L) | BAW-3 | 5.37 | n/a | 3/16/2022 | 6.85 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-4 | 5.37 | n/a | 3/16/2022 | 5.64 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-5 | 5.37 | n/a | 3/16/2022 | 23.1 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-7 | 5.37 | n/a | 3/16/2022 | 5.93 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-3 | 58.7 | n/a | 3/16/2022 | 26 | No | 40 | 4.916 | 1.503 | 5 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-4 | 58.7 | n/a | 3/16/2022 | 66 | Yes | 40 | 4.916 | 1.503 | 5 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-5 | 58.7 | n/a | 3/16/2022 | 133 | Yes | 40 | 4.916 | 1.503 | 5 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-7 | 58.7 | n/a | 3/16/2022 | 37 | No | 40 | 4.916 | 1.503 | 5 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 |

Appendix III Trend Test Summary - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/9/2022, 6:05 AM

| <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> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Calcium (mg/L) | BAW-2 (bg) | -0.4143 | -23 | -21 | Yes | 8 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-2 (bg) | -0.5393 | -29 | -25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-5 | -0.07651 | -120 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-1 (bg) | -0.4138 | -91 | -81 | Yes | 20 | 55 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-4 | 0.2517 | 91 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |

Appendix III Trend Test Summary - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/9/2022, 6:05 AM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|-------------------|-----------------|-------------|------------|------------|-----------|-----------|------------|------------|-------------|-----------|
| Boron (mg/L) | BAW-1 (bg) | 0 | 10 | 87 | No | 21 | 95.24 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-2 (bg) | 0 | 0 | 25 | No | 9 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-2A (bg) | 0 | -18 | -38 | No | 12 | 66.67 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-5 | -0.008655 | -21 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-7 | 0 | 51 | 87 | No | 21 | 85.71 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-1 (bg) | 0.02611 | 44 | 87 | No | 21 | 4.762 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-2 (bg) | -0.4143 | -23 | -21 | Yes | 8 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-2A (bg) | -0.06268 | -36 | -38 | No | 12 | 8.333 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-4 | 0.2004 | 75 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-5 | -0.5605 | -46 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | BAW-1 (bg) | 0.05579 | 20 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | BAW-2 (bg) | 1.001 | 18 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | BAW-2A (bg) | 1.003 | 21 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | BAW-4 | 0.08219 | 18 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | BAW-1 (bg) | 0 | -31 | -87 | No | 21 | 90.48 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | BAW-2 (bg) | 0 | 0 | 25 | No | 9 | 100 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | BAW-2A (bg) | 0 | -1 | -38 | No | 12 | 83.33 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | BAW-5 | 0 | -13 | -87 | No | 21 | 4.762 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-1 (bg) | -0.0225 | -34 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-2 (bg) | -0.5393 | -29 | -25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-2A (bg) | -0.07555 | -24 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-4 | 0.03938 | 50 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-5 | -0.07651 | -120 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-1 (bg) | -0.4138 | -91 | -81 | Yes | 20 | 55 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-2 (bg) | 0 | -11 | -25 | No | 9 | 77.78 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-2A (bg) | 0.6255 | 20 | 34 | No | 11 | 9.091 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-3 | 0.008336 | 16 | 81 | No | 20 | 20 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-4 | 0.2517 | 91 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-5 | 0.02583 | 2 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-7 | -0.1687 | -56 | -81 | No | 20 | 45 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-1 (bg) | 1.23 | 37 | 81 | No | 20 | 10 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-2 (bg) | -5.236 | -4 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-2A (bg) | 0.9444 | 5 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-4 | 1.829 | 15 | 81 | No | 20 | 5 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-5 | -2.531 | -24 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |

Upper Tolerance Limits Summary Table

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/2/2022, 5:11 PM

| <u>Constituent</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------------|-------------------|-------------|----------------|-------------|-------------|-------------|------------------|--------------|---------------------|
| Antimony (mg/L) | 0.002 | n/a | n/a | n/a | n/a | 34 | 97.06 | n/a | 0.1748 | NP Inter(NDs) |
| Arsenic (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 40 | 100 | n/a | 0.1285 | NP Inter(NDs) |
| Barium (mg/L) | 0.05 | n/a | n/a | n/a | n/a | 40 | 2.5 | n/a | 0.1285 | NP Inter(normality) |
| Beryllium (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 36 | 97.22 | n/a | 0.1578 | NP Inter(NDs) |
| Cadmium (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 40 | 97.5 | n/a | 0.1285 | NP Inter(NDs) |
| Chromium (mg/L) | 0.00286 | n/a | n/a | n/a | n/a | 38 | 89.47 | n/a | 0.1424 | NP Inter(NDs) |
| Cobalt (mg/L) | 0.00177 | n/a | n/a | n/a | n/a | 40 | 7.5 | n/a | 0.1285 | NP Inter(normality) |
| Combined Radium 226 + 228 (pCi/L) | 2.5 | n/a | n/a | n/a | n/a | 40 | 5 | n/a | 0.1285 | NP Inter(normality) |
| Fluoride (mg/L) | 0.1 | n/a | n/a | n/a | n/a | 42 | 90.48 | n/a | 0.116 | NP Inter(NDs) |
| Lead (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 38 | 100 | n/a | 0.1424 | NP Inter(NDs) |
| Lithium (mg/L) | 0.00505 | n/a | n/a | n/a | n/a | 39 | 69.23 | n/a | 0.1353 | NP Inter(NDs) |
| Mercury (mg/L) | 0.0002 | n/a | n/a | n/a | n/a | 32 | 93.75 | n/a | 0.1937 | NP Inter(NDs) |
| Molybdenum (mg/L) | 0.005 | n/a | n/a | n/a | n/a | 36 | 88.89 | n/a | 0.1578 | NP Inter(NDs) |
| Selenium (mg/L) | 0.005 | n/a | n/a | n/a | n/a | 36 | 83.33 | n/a | 0.1578 | NP Inter(NDs) |
| Thallium (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 36 | 97.22 | n/a | 0.1578 | NP Inter(NDs) |

| PLANT DANIEL BOTTOM ASH 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 | | 0.001 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.05 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.001 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.001 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0029 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.0018 | 0.006 |
| Combined Radium, Total (pCi/L) | 5 | | 2.5 | 5 |
| Fluoride, Total (mg/L) | 4 | | 0.1 | 4 |
| Lead, Total (mg/L) | 0.015 | | 0.001 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.0051 | 0.04 |
| Mercury, Total (mg/L) | 0.002 | | 0.0002 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.005 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Interval Summary Table - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/2/2022, 5:21 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|------------------|-------------|------------------|--------------|---------------|
| Lithium (mg/L) | BAW-5 | 0.193 | 0.156 | 0.04 | Yes | 20 | 0.03845 | 0 | x^2 | 0.01 | Param. |

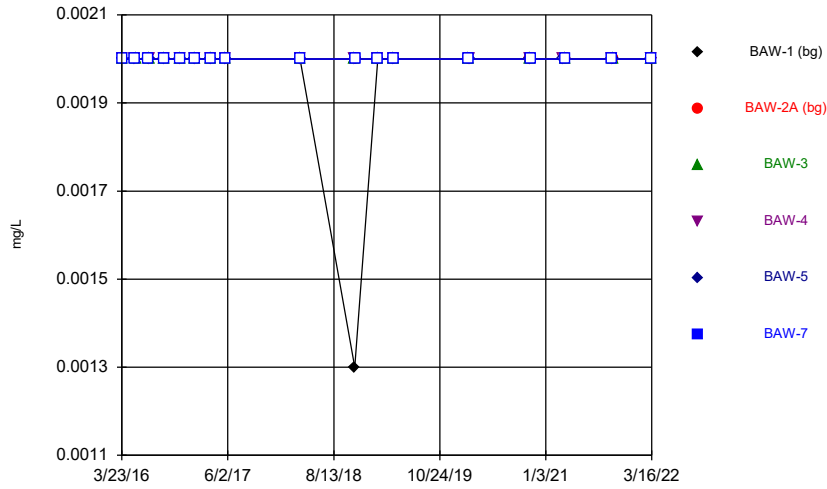
Confidence Interval Summary Table - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/2/2022, 5:21 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Std. Dev. | %NDs | Transform | Alpha | Method |
|-----------------------------------|--------------|--------------|--------------|-------------|------------|-----------|----------------|----------|------------|-------------|----------------|
| Arsenic (mg/L) | BAW-4 | 0.001 | 0.00069 | 0.01 | No | 20 | 0.0008342 | 20 | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | BAW-5 | 0.003662 | 0.001725 | 0.01 | No | 20 | 0.002944 | 0 | ln(x) | 0.01 | Param. |
| Arsenic (mg/L) | BAW-7 | 0.001 | 0.00052 | 0.01 | No | 20 | 0.0001509 | 90 | No | 0.01 | NP (NDs) |
| Barium (mg/L) | BAW-3 | 0.02989 | 0.02182 | 2 | No | 20 | 0.007104 | 0 | No | 0.01 | Param. |
| Barium (mg/L) | BAW-4 | 0.0116 | 0.00888 | 2 | No | 20 | 0.006939 | 0 | No | 0.01 | NP (normality) |
| Barium (mg/L) | BAW-5 | 0.046 | 0.039 | 2 | No | 20 | 0.007047 | 0 | No | 0.01 | NP (normality) |
| Barium (mg/L) | BAW-7 | 0.013 | 0.011 | 2 | No | 20 | 0.003649 | 0 | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | BAW-7 | 0.001 | 0.000185 | 0.004 | No | 18 | 0.0001921 | 94.44 | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | BAW-3 | 0.0008978 | 0.0006141 | 0.005 | No | 20 | 0.0002498 | 5 | No | 0.01 | Param. |
| Cadmium (mg/L) | BAW-5 | 0.001 | 0.000155 | 0.005 | No | 20 | 0.0001889 | 95 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-3 | 0.003 | 0.00165 | 0.1 | No | 19 | 0.0002472 | 89.47 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-4 | 0.002 | 0.0015 | 0.1 | No | 19 | 0.0002494 | 84.21 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-5 | 0.0024 | 0.0012 | 0.1 | No | 19 | 0.0007243 | 84.21 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-7 | 0.00206 | 0.002 | 0.1 | No | 19 | 0.00001376 | 94.74 | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | BAW-3 | 0.006089 | 0.004786 | 0.006 | No | 20 | 0.001148 | 0 | No | 0.01 | Param. |
| Cobalt (mg/L) | BAW-4 | 0.001376 | 0.0009965 | 0.006 | No | 20 | 0.0003586 | 0 | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | BAW-5 | 0.000802 | 0.00042 | 0.006 | No | 20 | 0.000124 | 85 | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | BAW-7 | 0.0009944 | 0.0007674 | 0.006 | No | 20 | 0.0001999 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | BAW-3 | 0.646 | 0.126 | 5 | No | 20 | 0.7213 | 10 | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-4 | 0.7846 | 0.09941 | 5 | No | 20 | 0.8414 | 15 | x^(1/3) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | BAW-5 | 0.7838 | 0.3114 | 5 | No | 19 | 0.5517 | 5.263 | x^(1/3) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | BAW-7 | 1.005 | 0.2552 | 5 | No | 20 | 0.8193 | 15 | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | BAW-3 | 0.1 | 0.034 | 4 | No | 21 | 0.02036 | 90.48 | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | BAW-4 | 0.1 | 0.04 | 4 | No | 21 | 0.02667 | 28.57 | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | BAW-5 | 0.07 | 0.05 | 4 | No | 21 | 0.02897 | 4.762 | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | BAW-7 | 0.1 | 0.0415 | 4 | No | 21 | 0.01998 | 90.48 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-3 | 0.001 | 0.00015 | 0.015 | No | 19 | 0.0003872 | 52.63 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-4 | 0.001 | 0.00042 | 0.015 | No | 19 | 0.0003031 | 78.95 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-5 | 0.001 | 0.000152 | 0.015 | No | 19 | 0.0001945 | 94.74 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-7 | 0.001 | 0.000129 | 0.015 | No | 19 | 0.0001998 | 94.74 | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | BAW-3 | 0.005 | 0.0038 | 0.04 | No | 20 | 0.001287 | 70 | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | BAW-4 | 0.02735 | 0.01998 | 0.04 | No | 20 | 0.006551 | 0 | sqrt(x) | 0.01 | Param. |
| Lithium (mg/L) | BAW-5 | 0.193 | 0.156 | 0.04 | Yes | 20 | 0.03845 | 0 | x^2 | 0.01 | Param. |
| Lithium (mg/L) | BAW-7 | 0.005 | 0.0035 | 0.04 | No | 20 | 0.0009717 | 60 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-3 | 0.000497 | 0.00013 | 0.002 | No | 16 | 0.00008398 | 81.25 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-4 | 0.0002 | 0.00013 | 0.002 | No | 16 | 0.00003522 | 87.5 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-5 | 0.0002 | 0.000074 | 0.002 | No | 16 | 0.0000315 | 93.75 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-7 | 0.000235 | 0.000151 | 0.002 | No | 16 | 0.0002549 | 75 | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | BAW-4 | 0.005 | 0.0032 | 0.1 | No | 18 | 0.001595 | 77.78 | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | BAW-5 | 0.003899 | 0.001363 | 0.1 | No | 18 | 0.002084 | 33.33 | No | 0.01 | Param. |
| Molybdenum (mg/L) | BAW-7 | 0.005 | 0.0038 | 0.1 | No | 18 | 0.0002828 | 94.44 | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | BAW-3 | 0.005 | 0.00038 | 0.05 | No | 18 | 0.002271 | 61.11 | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | BAW-5 | 0.005 | 0.00033 | 0.05 | No | 18 | 0.001101 | 94.44 | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | BAW-7 | 0.005 | 0.00036 | 0.05 | No | 18 | 0.002039 | 72.22 | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | BAW-3 | 0.001 | 0.000276 | 0.002 | No | 18 | 0.000364 | 77.78 | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | BAW-7 | 0.001 | 0.000153 | 0.002 | No | 18 | 0.0001996 | 94.44 | No | 0.01 | NP (NDs) |

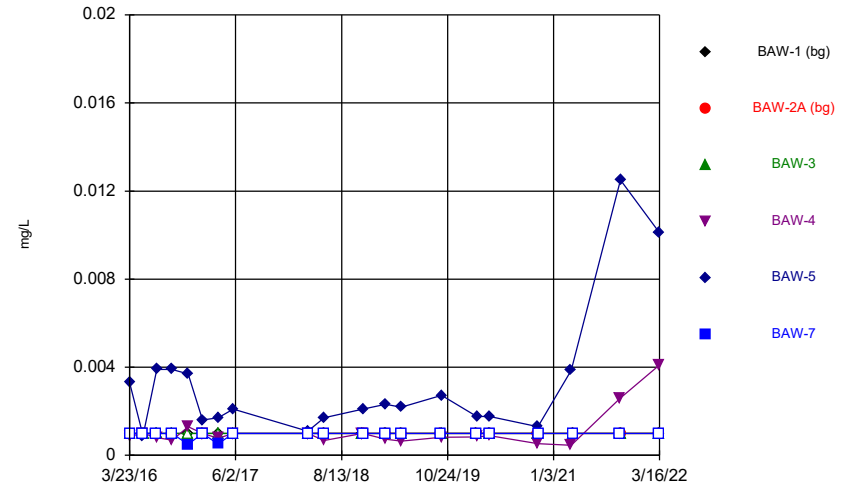
FIGURE A.

Time Series



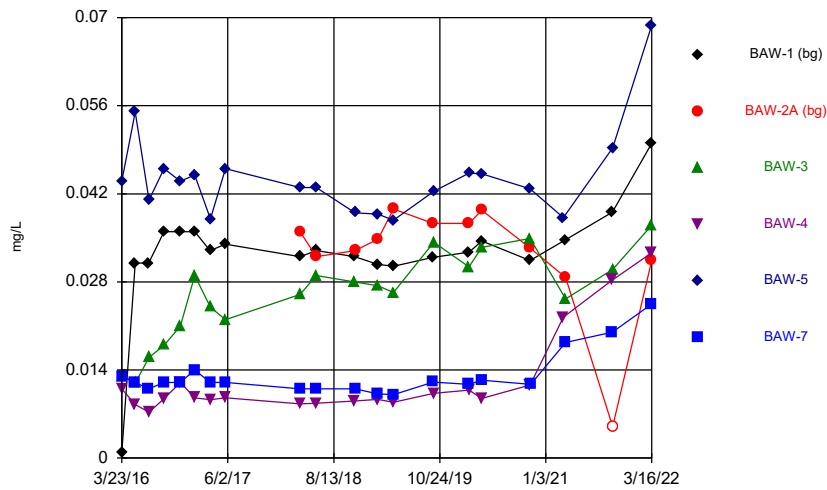
Constituent: Antimony Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



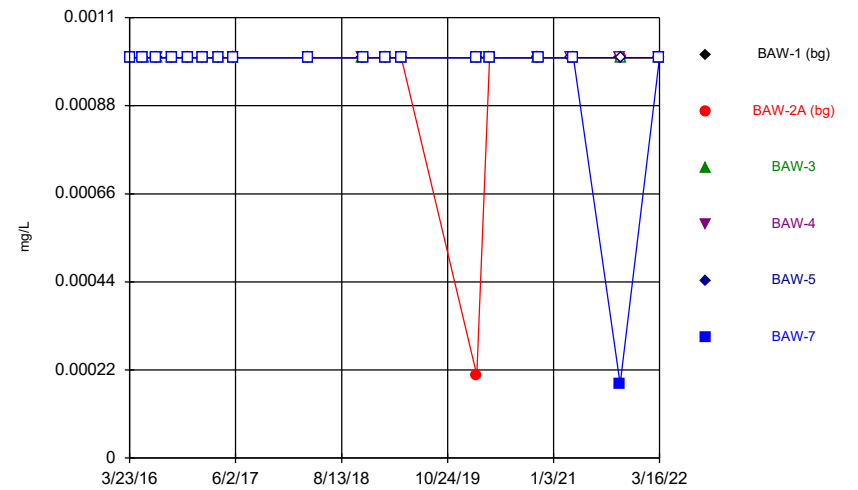
Constituent: Arsenic Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



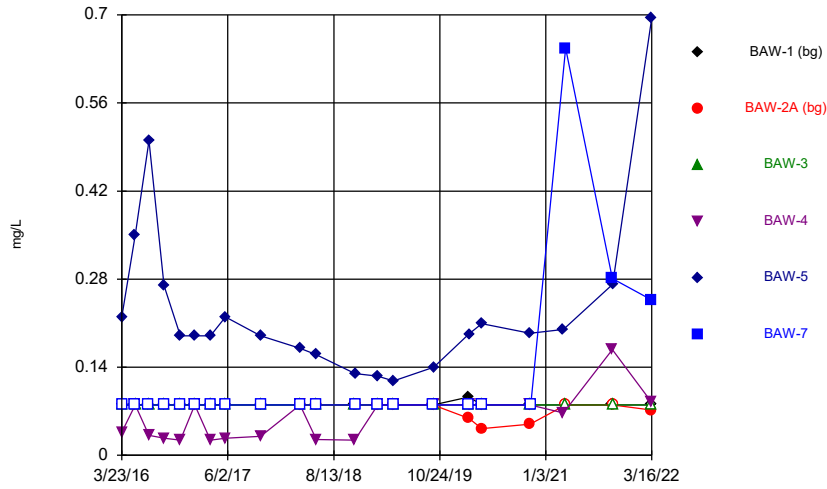
Constituent: Barium Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



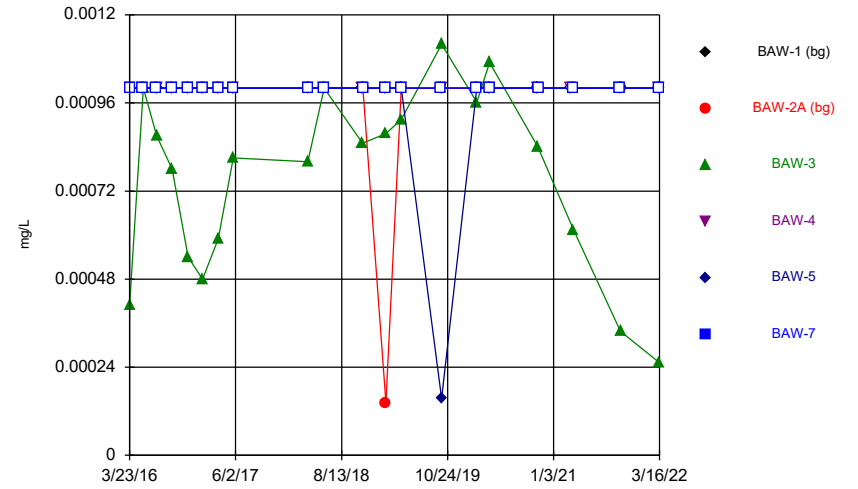
Constituent: Beryllium Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



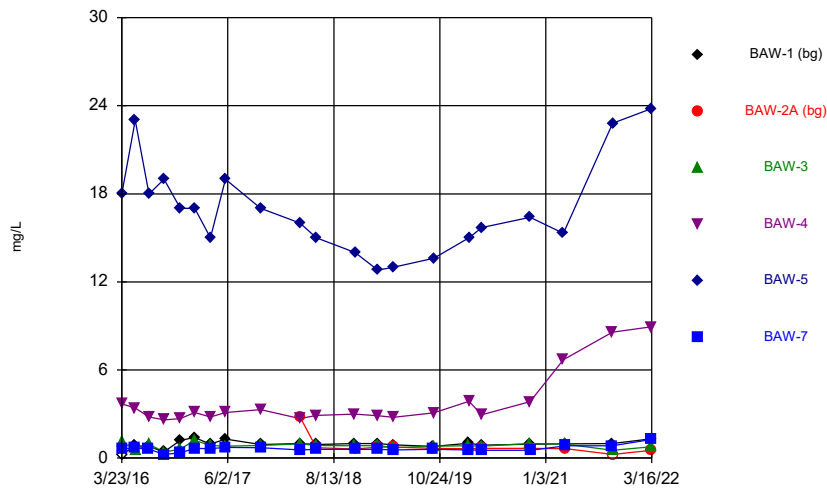
Constituent: Boron Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



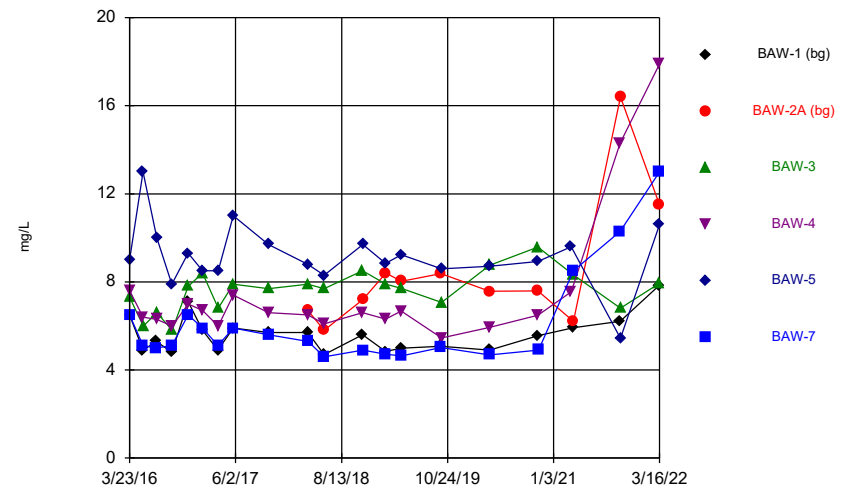
Constituent: Cadmium Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



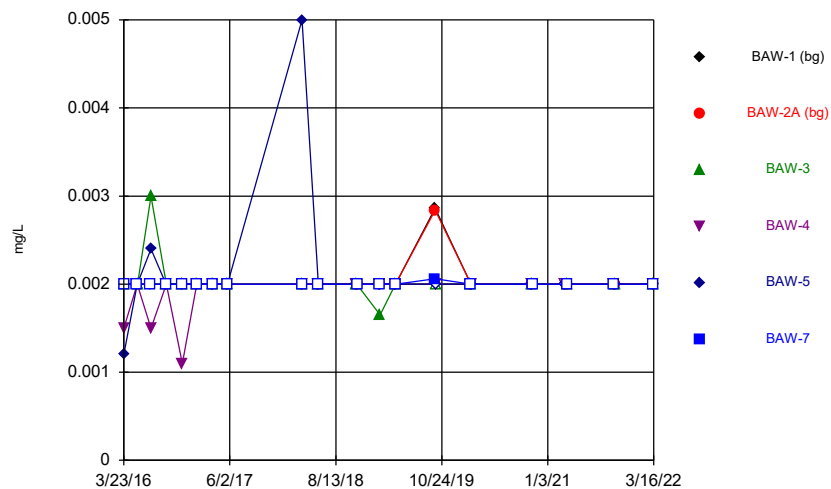
Constituent: Calcium Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



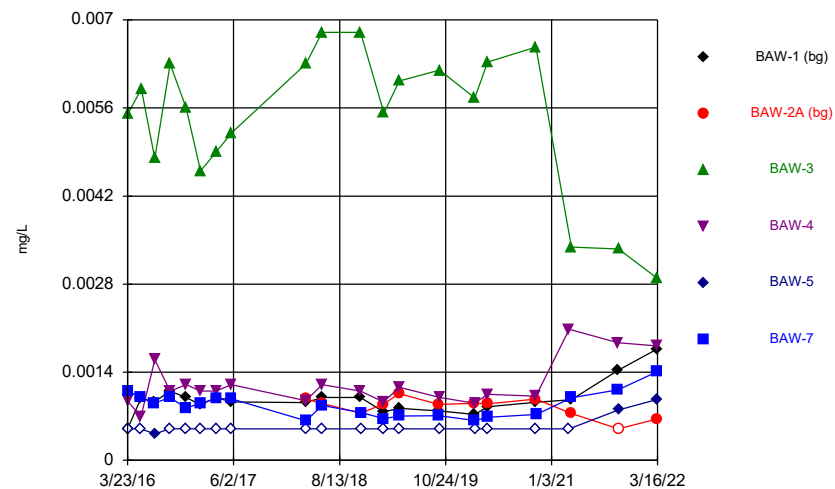
Constituent: Chloride Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



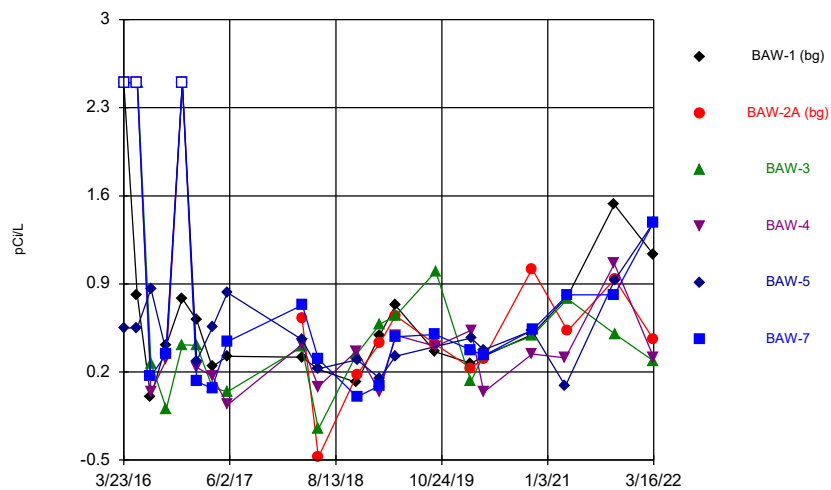
Constituent: Chromium Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



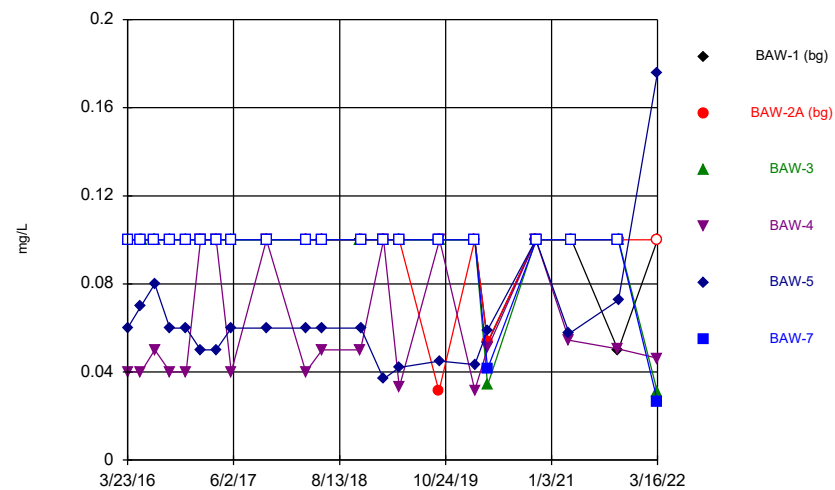
Constituent: Cobalt Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



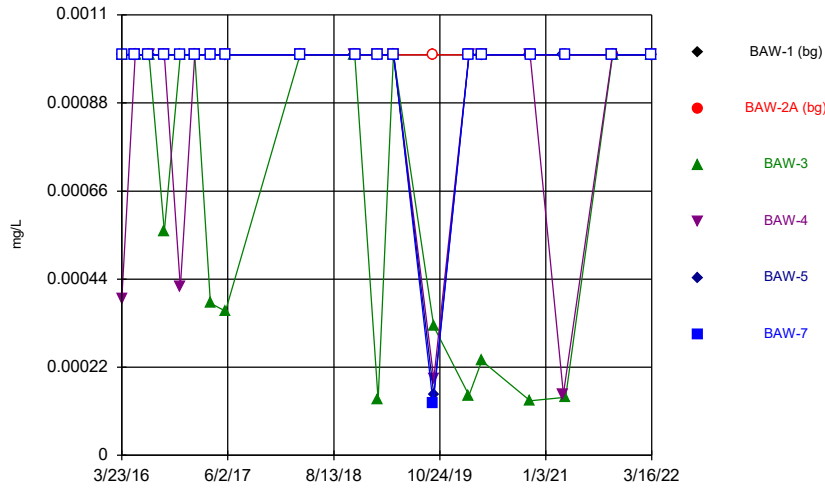
Constituent: Combined Radium 226 + 228 Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



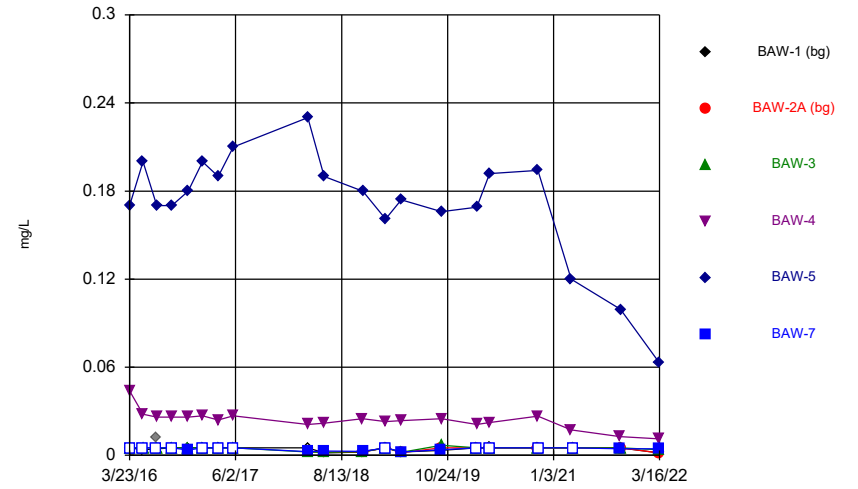
Constituent: Fluoride Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



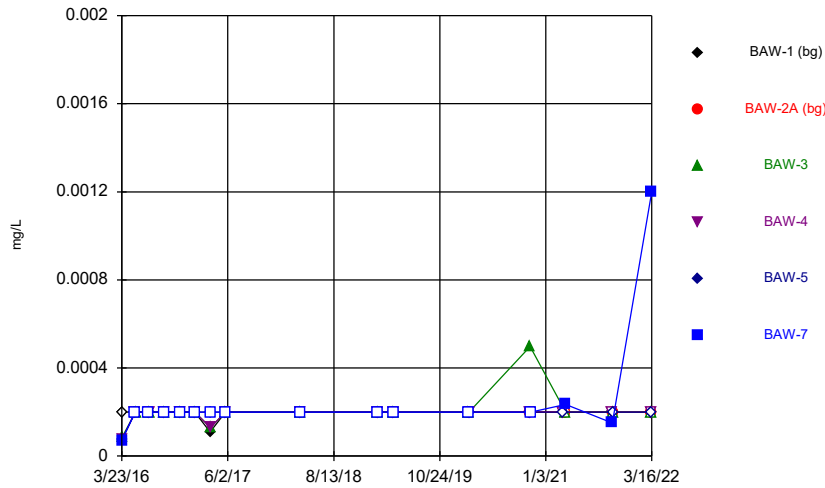
Constituent: Lead Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



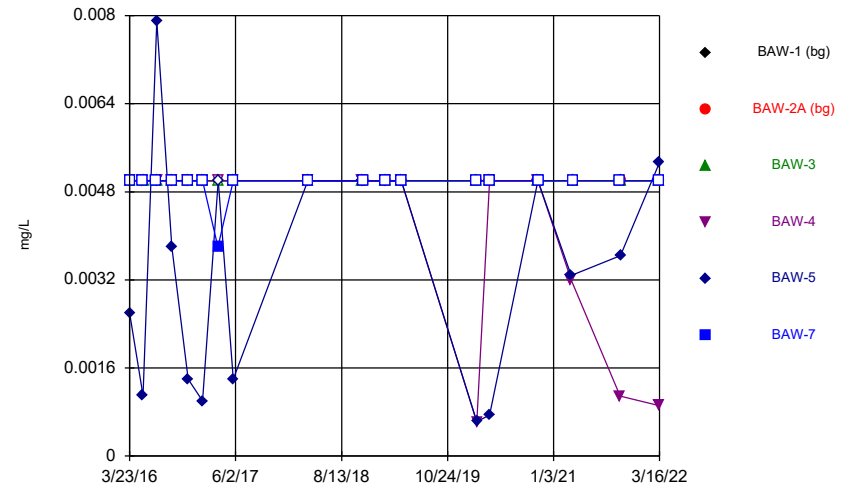
Constituent: Lithium Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



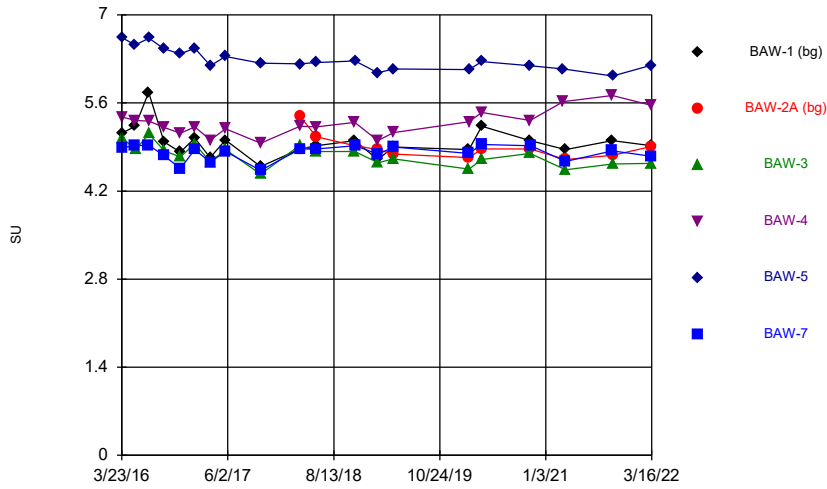
Constituent: Mercury Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



Constituent: Molybdenum Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

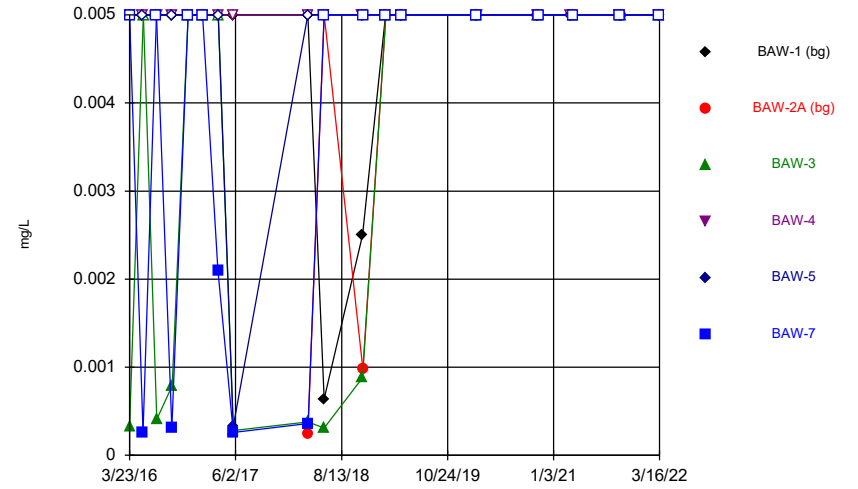
Time Series



Constituent: pH Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Hollow symbols indicate censored values.

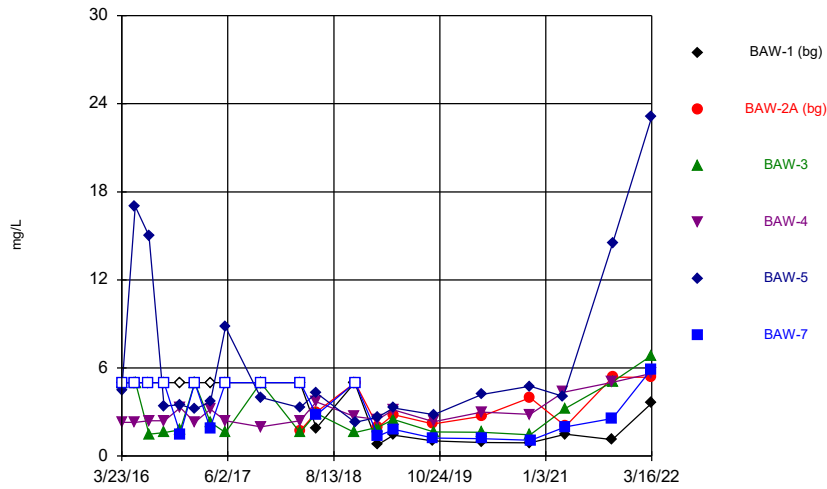
Time Series



Constituent: Selenium Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Hollow symbols indicate censored values.

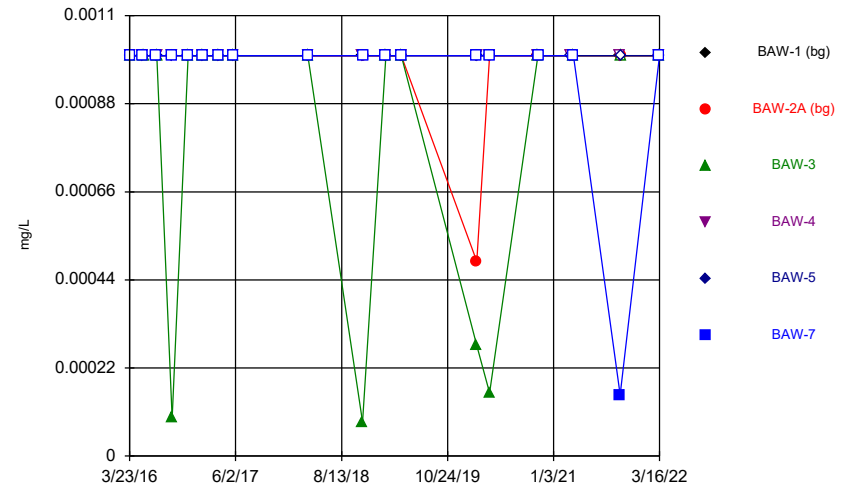
Time Series



Constituent: Sulfate Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

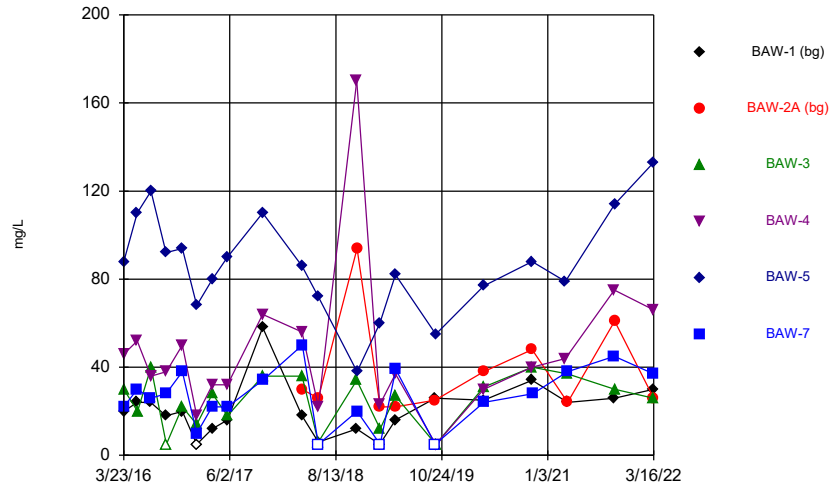
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/9/2022 5:38 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|-------------|--------|--------------|-------------|-------------|
| 3/23/2016 | <0.001 | | <0.001 | 0.00087 (J) | 0.0033 | <0.001 |
| 5/17/2016 | <0.001 | | | <0.001 | 0.00089 (J) | <0.001 |
| 5/18/2016 | | | <0.001 | | | |
| 7/12/2016 | <0.001 | | | | | <0.001 |
| 7/13/2016 | | | <0.001 | 0.00081 (J) | 0.0039 | |
| 9/13/2016 | <0.001 | | | | 0.0039 | <0.001 |
| 9/14/2016 | | | <0.001 | 0.00069 (J) | | |
| 11/19/2016 | <0.001 | | <0.001 | 0.0013 | 0.0037 | 0.0005 (J) |
| 1/17/2017 | <0.001 | | <0.001 | | | <0.001 |
| 1/18/2017 | | | | <0.001 | 0.0016 | |
| 3/22/2017 | <0.001 | | | | | 0.00052 (J) |
| 3/23/2017 | | | <0.001 | 0.00078 (J) | 0.0017 | |
| 5/24/2017 | <0.001 | | <0.001 | 0.001 (J) | 0.0021 | <0.001 |
| 3/28/2018 | <0.001 | <0.001 | <0.001 | <0.001 | 0.0011 (J) | |
| 3/29/2018 | | | | | | <0.001 |
| 6/2/2018 | <0.001 | <0.001 | <0.001 | 0.00068 (J) | 0.0017 | <0.001 |
| 11/8/2018 | <0.001 | | <0.001 | <0.001 | | |
| 11/9/2018 | | <0.001 | | | 0.0021 | <0.001 |
| 2/11/2019 | <0.001 | | | 0.000737 (J) | 0.00232 | |
| 2/12/2019 | | <0.001 | <0.001 | | | <0.001 |
| 4/17/2019 | <0.001 | <0.001 | <0.001 | 0.000645 (J) | 0.00218 | |
| 4/18/2019 | | | | | | <0.001 |
| 9/27/2019 | <0.001 | <0.001 | | | | <0.001 |
| 9/30/2019 | | | <0.001 | 0.000821 (J) | 0.00272 | |
| 2/21/2020 | <0.001 | <0.001 | <0.001 | | | <0.001 |
| 2/22/2020 | | | | 0.000837 (J) | 0.00177 | |
| 4/14/2020 | <0.001 | <0.001 | <0.001 | 0.000896 (J) | 0.00177 | <0.001 |
| 10/30/2020 | <0.001 | <0.001 | <0.001 | 0.000529 (J) | 0.0013 | |
| 11/2/2020 | | | | | | <0.001 |
| 3/17/2021 | | | | 0.000454 (J) | 0.00385 | |
| 3/26/2021 | <0.001 | <0.001 | <0.001 | | | <0.001 |
| 10/5/2021 | <0.001 | | | 0.00259 | | <0.001 |
| 10/6/2021 | | <0.001 | <0.001 | | 0.0125 | |
| 3/16/2022 | <0.001 | <0.001 | <0.001 | 0.00411 | 0.0101 | <0.001 |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|-------------|-------------|--------|-------------|--------|--------|
| 3/23/2016 | 0.00084 (J) | | 0.013 | 0.011 | 0.044 | 0.013 |
| 5/17/2016 | 0.031 | | | 0.0085 | 0.055 | 0.012 |
| 5/18/2016 | | | 0.012 | | | |
| 7/12/2016 | 0.031 | | | | | 0.011 |
| 7/13/2016 | | | 0.016 | 0.0073 | 0.041 | |
| 9/13/2016 | 0.036 | | | | 0.046 | 0.012 |
| 9/14/2016 | | | 0.018 | 0.0095 | | |
| 11/19/2016 | 0.036 | | 0.021 | 0.012 | 0.044 | 0.012 |
| 1/17/2017 | 0.036 | | 0.029 | | | 0.014 |
| 1/18/2017 | | | | 0.0096 | 0.045 | |
| 3/22/2017 | 0.033 | | | | | 0.012 |
| 3/23/2017 | | | 0.024 | 0.0093 | 0.038 | |
| 5/24/2017 | 0.034 | | 0.022 | 0.0096 | 0.046 | 0.012 |
| 3/28/2018 | 0.032 | 0.036 | 0.026 | 0.0086 | 0.043 | |
| 3/29/2018 | | | | | | 0.011 |
| 6/2/2018 | 0.033 | 0.032 | 0.029 | 0.0087 | 0.043 | 0.011 |
| 11/8/2018 | 0.032 | | 0.028 | 0.0091 | | |
| 11/9/2018 | | 0.033 | | | 0.039 | 0.011 |
| 2/11/2019 | 0.0308 | | | 0.00931 | 0.0388 | |
| 2/12/2019 | | 0.0348 | 0.0274 | | | 0.0102 |
| 4/17/2019 | 0.0305 | 0.0396 | 0.0263 | 0.00888 | 0.0378 | |
| 4/18/2019 | | | | | | 0.0101 |
| 9/27/2019 | 0.0319 | 0.0373 | | | | 0.0121 |
| 9/30/2019 | | | 0.0343 | 0.0103 | 0.0424 | |
| 2/21/2020 | 0.0327 | 0.0373 | 0.0304 | | | 0.0117 |
| 2/22/2020 | | | | 0.0108 | 0.0453 | |
| 4/14/2020 | 0.0345 | 0.0394 | 0.0335 | 0.00949 (J) | 0.0452 | 0.0124 |
| 10/30/2020 | 0.0314 | 0.0334 | 0.0349 | 0.0116 | 0.0428 | |
| 11/2/2020 | | | | | | 0.0117 |
| 3/17/2021 | | | | 0.0224 | 0.0382 | |
| 3/26/2021 | 0.0347 | 0.0287 | 0.0253 | | | 0.0184 |
| 10/5/2021 | 0.0391 | | | 0.0283 | | 0.02 |
| 10/6/2021 | | <0.01 | 0.03 | | 0.0493 | |
| 3/16/2022 | 0.05 | 0.0314 | 0.037 | 0.0326 | 0.0688 | 0.0245 |

Time Series

Constituent: Boron (mg/L) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|-------------|-------|------------|-------|-------|
| 3/23/2016 | <0.08 | | <0.08 | 0.037 (J) | 0.22 | <0.08 |
| 5/17/2016 | <0.08 | | | <0.08 | 0.35 | <0.08 |
| 5/18/2016 | | | <0.08 | | | |
| 7/12/2016 | <0.08 | | | | | <0.08 |
| 7/13/2016 | | | <0.08 | 0.032 (J) | 0.5 | |
| 9/13/2016 | <0.08 | | | | 0.27 | <0.08 |
| 9/14/2016 | | | <0.08 | 0.027 (J) | | |
| 11/19/2016 | <0.08 | | <0.08 | 0.024 (J) | 0.19 | <0.08 |
| 1/17/2017 | <0.08 | | <0.08 | | | <0.08 |
| 1/18/2017 | | | | <0.08 | 0.19 | |
| 3/22/2017 | <0.08 | | | | | <0.08 |
| 3/23/2017 | | | <0.08 | 0.024 (J) | 0.19 | |
| 5/24/2017 | <0.08 | | <0.08 | 0.027 (J) | 0.22 | <0.08 |
| 10/16/2017 | <0.08 | | <0.08 | 0.03 (J) | 0.19 | <0.08 |
| 3/28/2018 | <0.08 | <0.08 | <0.08 | <0.08 | 0.17 | |
| 3/29/2018 | | | | | | <0.08 |
| 6/2/2018 | <0.08 | <0.08 | <0.08 | 0.025 (J) | 0.16 | <0.08 |
| 11/8/2018 | <0.08 | | <0.08 | 0.024 (J) | | |
| 11/9/2018 | | <0.08 | | | 0.13 | <0.08 |
| 2/11/2019 | <0.08 | | | <0.08 | 0.126 | |
| 2/12/2019 | | <0.08 | <0.08 | | | <0.08 |
| 4/17/2019 | <0.08 | <0.08 | <0.08 | <0.08 | 0.118 | |
| 4/18/2019 | | | | | | <0.08 |
| 9/27/2019 | <0.08 | <0.08 | | | | <0.08 |
| 9/30/2019 | | | <0.08 | <0.08 | 0.14 | |
| 2/21/2020 | 0.0928 | 0.0589 (J) | <0.08 | | | <0.08 |
| 2/22/2020 | | | | <0.08 | 0.193 | |
| 4/14/2020 | <0.08 | 0.0424 (J) | <0.08 | <0.08 | 0.209 | <0.08 |
| 10/30/2020 | <0.08 | 0.0495 (J) | <0.08 | <0.08 | 0.194 | |
| 11/2/2020 | | | | | | <0.08 |
| 3/17/2021 | | | | 0.0673 (J) | 0.2 | |
| 3/26/2021 | <0.08 | <0.08 | <0.08 | | | 0.647 |
| 10/5/2021 | <0.08 | | | 0.168 | | 0.281 |
| 10/6/2021 | | <0.08 | <0.08 | | 0.272 | |
| 3/16/2022 | <0.08 | 0.0717 (J) | <0.08 | 0.084 | 0.695 | 0.247 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|--------------|--------------|--------|--------------|--------|
| 3/23/2016 | <0.001 | | 0.00041 (J) | <0.001 | <0.001 | <0.001 |
| 5/17/2016 | <0.001 | | | <0.001 | <0.001 | <0.001 |
| 5/18/2016 | | | <0.001 | | | |
| 7/12/2016 | <0.001 | | | | | <0.001 |
| 7/13/2016 | | | 0.00087 (J) | <0.001 | <0.001 | |
| 9/13/2016 | <0.001 | | | | <0.001 | <0.001 |
| 9/14/2016 | | | 0.00078 (J) | <0.001 | | |
| 11/19/2016 | <0.001 | | 0.00054 (J) | <0.001 | <0.001 | <0.001 |
| 1/17/2017 | <0.001 | | 0.00048 (J) | | | <0.001 |
| 1/18/2017 | | | | <0.001 | <0.001 | |
| 3/22/2017 | <0.001 | | | | | <0.001 |
| 3/23/2017 | | | 0.00059 (J) | <0.001 | <0.001 | |
| 5/24/2017 | <0.001 | | 0.00081 (J) | <0.001 | <0.001 | <0.001 |
| 3/28/2018 | <0.001 | <0.001 | 0.0008 (J) | <0.001 | <0.001 | |
| 3/29/2018 | | | | | | <0.001 |
| 6/2/2018 | <0.001 | <0.001 | 0.001 (J) | <0.001 | <0.001 | <0.001 |
| 11/8/2018 | <0.001 | | 0.00085 (J) | <0.001 | | |
| 11/9/2018 | | <0.001 | | | <0.001 | <0.001 |
| 2/11/2019 | <0.001 | | | <0.001 | <0.001 | |
| 2/12/2019 | | 0.000143 (J) | 0.000877 (J) | | | <0.001 |
| 4/17/2019 | <0.001 | <0.001 | 0.000915 (J) | <0.001 | <0.001 | |
| 4/18/2019 | | | | | | <0.001 |
| 9/27/2019 | <0.001 | <0.001 | | | | <0.001 |
| 9/30/2019 | | | 0.00112 (J) | <0.001 | 0.000155 (J) | |
| 2/21/2020 | <0.001 | <0.001 | 0.000962 (J) | | | <0.001 |
| 2/22/2020 | | | | <0.001 | <0.001 | |
| 4/14/2020 | <0.001 | <0.001 | 0.00107 (J) | <0.001 | <0.001 | <0.001 |
| 10/30/2020 | <0.001 | <0.001 | 0.00084 (J) | <0.001 | <0.001 | |
| 11/2/2020 | | | | | | <0.001 |
| 3/17/2021 | | | | <0.001 | <0.001 | |
| 3/26/2021 | <0.001 | <0.001 | 0.000615 (J) | | | <0.001 |
| 10/5/2021 | <0.001 | | | <0.001 | | <0.001 |
| 10/6/2021 | | <0.001 | 0.000338 (J) | | <0.001 | |
| 3/16/2022 | <0.001 | <0.001 | 0.000252 (J) | <0.001 | <0.001 | <0.001 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016 | <0.5 | | 1.1 | 3.7 | 18 | 0.65 |
| 5/17/2016 | 0.84 | | | 3.4 | 23 | 0.68 |
| 5/18/2016 | | | 0.56 | | | |
| 7/12/2016 | 0.79 | | | | | 0.62 |
| 7/13/2016 | | | 0.95 | 2.8 | 18 | |
| 9/13/2016 | 0.42 | | | | 19 | 0.25 |
| 9/14/2016 | | | 0.4 | 2.6 | | |
| 11/19/2016 | 1.2 | | 0.62 | 2.7 | 17 | 0.36 |
| 1/17/2017 | 1.4 | | 1.2 | | | 0.66 |
| 1/18/2017 | | | | 3.1 | 17 | |
| 3/22/2017 | 0.95 | | | | | 0.65 |
| 3/23/2017 | | | 0.87 | 2.8 | 15 | |
| 5/24/2017 | 1.3 | | 0.81 | 3.1 | 19 | 0.72 |
| 10/16/2017 | 0.93 | | 0.86 | 3.3 | 17 | 0.7 |
| 3/28/2018 | 1 | 2.8 | 0.97 | 2.7 | 16 | |
| 3/29/2018 | | | | | | 0.55 |
| 6/2/2018 | 0.93 | 0.71 | 0.86 | 2.9 | 15 | 0.6 |
| 11/8/2018 | 1 | | 0.84 | 3 | | |
| 11/9/2018 | | 0.61 | | | 14 | 0.59 |
| 2/11/2019 | 1 | | | 2.88 | 12.8 | |
| 2/12/2019 | | 0.757 | 0.856 | | | 0.608 |
| 4/17/2019 | 0.893 | 0.755 | 0.711 | 2.77 | 13 | |
| 4/18/2019 | | | | | | 0.55 |
| 9/27/2019 | 0.8 | 0.663 | | | | 0.598 |
| 9/30/2019 | | | 0.826 | 3.08 | 13.6 | |
| 2/21/2020 | 1.02 | 0.648 | 0.841 | | | 0.552 |
| 2/22/2020 | | | | 3.86 | 15 | |
| 4/14/2020 | 0.887 | 0.67 | 0.811 | 2.95 | 15.7 | 0.532 |
| 10/30/2020 | 0.945 | 0.672 | 1 | 3.84 | 16.4 | |
| 11/2/2020 | | | | | | 0.535 |
| 3/17/2021 | | | | 6.69 | 15.3 | |
| 3/26/2021 | 0.965 | 0.644 | 0.937 | | | 0.848 |
| 10/5/2021 | 0.996 | | | 8.57 | | 0.829 |
| 10/6/2021 | | <0.5 | 0.532 | | 22.8 | |
| 3/16/2022 | 1.32 | 0.539 | 0.78 | 8.94 | 23.8 | 1.28 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016 | 6.5 | | 7.3 | 7.6 | 9 | 6.5 |
| 5/17/2016 | 4.9 | | | 6.4 | 13 | 5.1 |
| 5/18/2016 | | | 6 | | | |
| 7/12/2016 | 5.3 | | | | | 5 |
| 7/13/2016 | | | 6.6 | 6.3 | 10 | |
| 9/13/2016 | 4.8 (F1) | | | | 7.9 | 5.1 |
| 9/14/2016 | | | 5.8 | 6 | | |
| 11/19/2016 | 7.1 | | 7.8 | 7 | 9.3 | 6.5 |
| 1/17/2017 | 5.8 | | 8.4 | | | 5.9 |
| 1/18/2017 | | | | 6.7 | 8.5 | |
| 3/22/2017 | 4.9 | | | | | 5.1 |
| 3/23/2017 | | | 6.8 | 6 | 8.5 | |
| 5/24/2017 | 5.9 | | 7.9 | 7.4 | 11 | 5.9 |
| 10/16/2017 | 5.7 | | 7.7 | 6.6 | 9.7 | 5.6 |
| 3/28/2018 | 5.7 | 6.7 | 7.9 | 6.5 | 8.8 | |
| 3/29/2018 | | | | | | 5.3 |
| 6/2/2018 | 4.7 | 5.8 | 7.7 | 6.1 | 8.3 | 4.6 |
| 11/8/2018 | 5.6 | | 8.5 | 6.6 | | |
| 11/9/2018 | | 7.2 | | | 9.7 | 4.9 |
| 2/11/2019 | 4.84 | | | 6.31 | 8.84 | |
| 2/12/2019 | | 8.4 | 7.89 | | | 4.72 |
| 4/17/2019 | 4.99 | 8.03 | 7.71 | 6.68 | 9.24 | |
| 4/18/2019 | | | | | | 4.64 |
| 9/27/2019 | 5.08 | 8.37 | | | | 5.02 |
| 9/30/2019 | | | 7.07 | 5.45 | 8.59 | |
| 4/14/2020 | 4.91 | 7.57 | 8.75 | 5.93 | 8.71 | 4.68 |
| 10/30/2020 | 5.55 | 7.59 | 9.58 | 6.49 | 8.93 | |
| 11/2/2020 | | | | | | 4.91 |
| 3/17/2021 | | | | 7.55 | 9.6 | |
| 3/26/2021 | 5.92 | 6.21 | 8.32 | | | 8.5 |
| 10/5/2021 | 6.21 | | | 14.3 | | 10.3 |
| 10/6/2021 | | 16.4 | 6.8 | | 5.44 | |
| 3/16/2022 | 7.85 | 11.5 | 7.94 | 17.9 | 10.6 | 13 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|--------------|--------------|---------|--------------|-------------|--------------|
| 3/23/2016 | <0.0005 | | 0.0055 | 0.00094 (J) | <0.0005 | 0.0011 (J) |
| 5/17/2016 | 0.00099 (J) | | | 0.0007 (J) | <0.0005 | 0.001 (J) |
| 5/18/2016 | | | 0.0059 | | | |
| 7/12/2016 | 0.00093 (J) | | | | | 0.00091 (J) |
| 7/13/2016 | | | 0.0048 | 0.0016 (J) | 0.00042 (J) | |
| 9/13/2016 | 0.0011 (J) | | | | <0.0005 | 0.001 (J) |
| 9/14/2016 | | | 0.0063 | 0.0011 (J) | | |
| 11/19/2016 | 0.001 (J) | | 0.0056 | 0.0012 (J) | <0.0005 | 0.00083 (J) |
| 1/17/2017 | 0.00088 (J) | | 0.0046 | | | 0.00091 (J) |
| 1/18/2017 | | | | 0.0011 (J) | <0.0005 | |
| 3/22/2017 | 0.001 (J) | | | | | 0.00098 (J) |
| 3/23/2017 | | | 0.0049 | 0.0011 (J) | <0.0005 | |
| 5/24/2017 | 0.00093 (J) | | 0.0052 | 0.0012 (J) | <0.0005 | 0.00098 (J) |
| 3/28/2018 | 0.00092 (J) | 0.00098 (J) | 0.0063 | 0.00095 (J) | <0.0005 | |
| 3/29/2018 | | | | | | 0.00063 (J) |
| 6/2/2018 | 0.001 (J) | 0.0009 (J) | 0.0068 | 0.0012 (J) | <0.0005 | 0.00087 (J) |
| 11/8/2018 | 0.001 (J) | | 0.0068 | 0.0011 (J) | | |
| 11/9/2018 | | 0.00075 (J) | | | <0.0005 | 0.00076 (J) |
| 2/11/2019 | 0.000768 (J) | | | 0.00093 (J) | <0.0005 | |
| 2/12/2019 | | 0.000896 (J) | 0.00552 | | | 0.000661 (J) |
| 4/17/2019 | 0.000825 (J) | 0.00106 (J) | 0.00603 | 0.00116 (J) | <0.0005 | |
| 4/18/2019 | | | | | | 0.000705 (J) |
| 9/27/2019 | 0.000783 (J) | 0.000885 (J) | | | | 0.00071 (J) |
| 9/30/2019 | | | 0.0062 | 0.001 (J) | <0.0005 | |
| 2/21/2020 | 0.00073 (J) | 0.000909 (J) | 0.00576 | | | 0.000634 (J) |
| 2/22/2020 | | | | 0.000907 (J) | <0.0005 | |
| 4/14/2020 | 0.000853 (J) | 0.000899 (J) | 0.00633 | 0.00105 (J) | <0.0005 | 0.000684 (J) |
| 10/30/2020 | 0.000924 (J) | 0.000972 (J) | 0.00657 | 0.00102 (J) | <0.0005 | |
| 11/2/2020 | | | | | | 0.000729 (J) |
| 3/17/2021 | | | | 0.00208 | <0.0005 | |
| 3/26/2021 | 0.000961 | 0.000744 | 0.00339 | | | 0.000995 |
| 10/5/2021 | 0.00143 | | | 0.00187 | | 0.00112 |
| 10/6/2021 | | <0.0005 | 0.00336 | | 0.000802 | |
| 3/16/2022 | 0.00177 | 0.000658 | 0.00289 | 0.00182 | 0.000967 | 0.00141 |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|--------------|-------------|-------------|-------------|------------|-------------|
| 3/23/2016 | <5 | | <5 | <5 | 0.549 | <5 |
| 5/17/2016 | 0.813 | | | <5 | 0.551 | <5 |
| 5/18/2016 | | | <5 | | | |
| 7/12/2016 | -0.00163 (U) | | | | | 0.165 (U) |
| 7/13/2016 | | | 0.27 (U) | 0.0365 (U) | 0.859 | |
| 9/13/2016 | 0.41 (U) | | | | 0.367 (U) | 0.341 (U) |
| 9/14/2016 | | | -0.0909 (U) | 0.3 (U) | | |
| 11/19/2016 | 0.783 | | 0.416 | <5 (U) | <5 (U) | <5 (U) |
| 1/17/2017 | 0.613 | | 0.412 (U) | | | 0.124 (U) |
| 1/18/2017 | | | | 0.235 (U) | 0.289 (U) | |
| 3/22/2017 | 0.241 (U) | | | | | 0.0719 (U) |
| 3/23/2017 | | | 0.0761 (U) | 0.168 (U) | 0.554 | |
| 5/24/2017 | 0.325 | | 0.0415 (U) | -0.0607 (U) | 0.831 | 0.441 |
| 3/28/2018 | 0.318 (U) | 0.629 | 0.398 | 0.42 | 0.458 | |
| 3/29/2018 | | | | | | 0.731 |
| 6/2/2018 | 0.222 (U) | -0.478 (U) | -0.253 (U) | 0.0844 (U) | 0.226 (U) | 0.303 (U) |
| 11/8/2018 | 0.117 (U) | | 0.343 (U) | 0.367 (U) | | |
| 11/9/2018 | | 0.179 (U) | | | 0.298 (U) | 0.00226 (U) |
| 2/11/2019 | 0.493 | | | 0.0402 (U) | 0.15 (U) | |
| 2/12/2019 | | 0.432 | 0.581 | | | 0.094 (U) |
| 4/17/2019 | 0.729 | 0.648 | 0.646 | 0.493 | 0.326 (U) | |
| 4/18/2019 | | | | | | 0.48 |
| 9/27/2019 | 0.36 (U) | 0.422 (U) | | | | 0.497 |
| 9/30/2019 | | | 1 | 0.404 | | |
| 2/21/2020 | 0.268 (U) | 0.23 (U) | 0.126 (U) | | | 0.375 |
| 2/22/2020 | | | | 0.53 | 0.47 | |
| 4/14/2020 | 0.324 (U) | 0.307 (U) | 0.338 | 0.0408 (U) | 0.376 (U) | 0.329 (U) |
| 10/30/2020 | 0.497 | 1.02 | 0.485 | 0.344 | 0.528 | |
| 11/2/2020 | | | | | | 0.535 |
| 3/17/2021 | | | | 0.312 (U) | 0.0889 (U) | |
| 3/26/2021 | 0.804 | 0.526 | 0.78 | | | 0.813 |
| 10/5/2021 | 1.53 | | | 1.06 | | 0.814 |
| 10/6/2021 | | 0.937 | 0.503 | | 0.931 | |
| 3/16/2022 | 1.13 | 0.458 | 0.286 (U) | 0.314 (U) | 1.39 | 1.39 |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|-------------|------------|------------|------------|------------|
| 3/23/2016 | <0.1 | | <0.1 | 0.04 (J) | 0.06 (J) | <0.1 |
| 5/17/2016 | <0.1 | | | 0.04 (J) | 0.07 (J) | <0.1 |
| 5/18/2016 | | | <0.1 | | | |
| 7/12/2016 | <0.1 | | | | | <0.1 |
| 7/13/2016 | | | <0.1 | 0.05 (J) | 0.08 (J) | |
| 9/13/2016 | <0.1 | | | | 0.06 (J) | <0.1 |
| 9/14/2016 | | | <0.1 | 0.04 (J) | | |
| 11/19/2016 | <0.1 | | <0.1 | 0.04 (J) | 0.06 (J) | <0.1 |
| 1/17/2017 | <0.1 | | <0.1 | | | <0.1 |
| 1/18/2017 | | | | <0.1 | 0.05 (J) | |
| 3/22/2017 | <0.1 | | | | | <0.1 |
| 3/23/2017 | | | <0.1 | <0.1 | 0.05 (J) | |
| 5/24/2017 | <0.1 | | <0.1 | 0.04 (J) | 0.06 (J) | <0.1 (D) |
| 10/16/2017 | <0.1 | | <0.1 | <0.1 | 0.06 (J) | <0.1 |
| 3/28/2018 | <0.1 | <0.1 | <0.1 | 0.04 (J) | 0.06 (J) | |
| 3/29/2018 | | | | | | <0.1 |
| 6/2/2018 | <0.1 | <0.1 | <0.1 | 0.05 (J) | 0.06 (J) | <0.1 |
| 11/8/2018 | <0.1 | | <0.1 | 0.05 (J) | | |
| 11/9/2018 | | <0.1 | | | 0.06 (J) | <0.1 |
| 2/11/2019 | <0.1 | | | <0.1 | 0.0368 (J) | |
| 2/12/2019 | | <0.1 | <0.1 | | | <0.1 |
| 4/17/2019 | <0.1 | <0.1 | <0.1 | 0.033 (J) | 0.0421 (J) | |
| 4/18/2019 | | | | | | <0.1 |
| 9/27/2019 | <0.1 | 0.0313 (J) | | | | <0.1 |
| 9/30/2019 | | | <0.1 | <0.1 | 0.045 (J) | |
| 2/21/2020 | <0.1 | <0.1 | <0.1 | | | <0.1 |
| 2/22/2020 | | | | 0.0317 (J) | 0.0434 (J) | |
| 4/14/2020 | 0.0532 (J) | 0.0537 (J) | 0.034 (J) | 0.0508 (J) | 0.059 (J) | 0.0415 (J) |
| 10/30/2020 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| 11/2/2020 | | | | | | <0.1 |
| 3/17/2021 | | | | 0.0544 (J) | 0.0575 (J) | |
| 3/26/2021 | <0.1 | <0.1 | <0.1 | | | <0.1 |
| 10/5/2021 | 0.0499 (J) | | | 0.0505 (J) | | <0.1 |
| 10/6/2021 | | <0.1 | <0.1 | | 0.0725 (J) | |
| 3/16/2022 | <0.1 | <0.1 | 0.0307 (J) | 0.0462 (J) | 0.176 | 0.0266 (J) |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|-------------|-------------|-------------|--------|--------|-------------|
| 3/23/2016 | <0.005 | | <0.005 | 0.044 | 0.17 | <0.005 |
| 5/17/2016 | 0.0037 (J) | | | 0.028 | 0.2 | <0.005 |
| 5/18/2016 | | | <0.005 | | | |
| 7/12/2016 | 0.012 (o) | | | | | <0.005 |
| 7/13/2016 | | | <0.005 | 0.026 | 0.17 | |
| 9/13/2016 | <0.005 | | | | 0.17 | <0.005 |
| 9/14/2016 | | | <0.005 | 0.026 | | |
| 11/19/2016 | <0.005 | | <0.005 | 0.026 | 0.18 | 0.0035 (J) |
| 1/17/2017 | <0.005 | | <0.005 | | | <0.005 |
| 1/18/2017 | | | | 0.027 | 0.2 | |
| 3/22/2017 | <0.005 | | | | | <0.005 |
| 3/23/2017 | | | <0.005 | 0.024 | 0.19 | |
| 5/24/2017 | <0.005 | | <0.005 | 0.027 | 0.21 | <0.005 |
| 3/28/2018 | <0.005 | 0.0026 (J) | 0.0023 (J) | 0.021 | 0.23 | |
| 3/29/2018 | | | | | | 0.0026 (J) |
| 6/2/2018 | 0.0017 (J) | 0.0021 (J) | 0.002 (J) | 0.022 | 0.19 | 0.0029 (J) |
| 11/8/2018 | 0.0023 (J) | | 0.0024 (J) | 0.025 | | |
| 11/9/2018 | | 0.0024 (J) | | | 0.18 | 0.0027 (J) |
| 2/11/2019 | <0.005 | | | 0.0229 | 0.161 | |
| 2/12/2019 | | <0.005 | <0.005 | | | <0.005 |
| 4/17/2019 | 0.00229 (J) | 0.00191 (J) | 0.00197 (J) | 0.0236 | 0.174 | |
| 4/18/2019 | | | | | | 0.00238 (J) |
| 9/27/2019 | 0.00346 (J) | <0.005 | | | | 0.00375 (J) |
| 9/30/2019 | | | 0.00687 | 0.0249 | 0.166 | |
| 2/21/2020 | <0.005 | <0.005 | <0.005 | | | <0.005 |
| 2/22/2020 | | | | 0.0211 | 0.169 | |
| 4/14/2020 | 0.00505 | <0.005 | <0.005 | 0.0224 | 0.192 | <0.005 |
| 10/30/2020 | <0.005 | <0.005 | <0.005 | 0.0267 | 0.194 | |
| 11/2/2020 | | | | | | <0.005 |
| 3/17/2021 | | | | 0.0174 | 0.12 | |
| 3/26/2021 | <0.005 | <0.005 | <0.005 | | | <0.005 |
| 10/5/2021 | <0.005 | | | 0.0127 | | 0.0045 (J) |
| 10/6/2021 | | <0.005 | <0.005 | | 0.0994 | |
| 3/16/2022 | 0.00171 (J) | 0.00165 (J) | 0.0038 (J) | 0.0112 | 0.0629 | 0.00437 (J) |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|-------------|--------|--------------|--------------|------------|
| 3/23/2016 | <0.005 | | <0.005 | <0.005 | 0.0026 (J) | <0.005 |
| 5/17/2016 | <0.005 | | | <0.005 | 0.0011 (J) | <0.005 |
| 5/18/2016 | | | <0.005 | | | |
| 7/12/2016 | <0.005 | | | | | <0.005 |
| 7/13/2016 | | | <0.005 | <0.005 | 0.0079 (J) | |
| 9/13/2016 | <0.005 | | | | 0.0038 (J) | <0.005 |
| 9/14/2016 | | | <0.005 | <0.005 | | |
| 11/19/2016 | <0.005 | | <0.005 | <0.005 | 0.0014 (J) | <0.005 |
| 1/17/2017 | <0.005 | | <0.005 | | | <0.005 |
| 1/18/2017 | | | | <0.005 | 0.001 (J) | |
| 3/22/2017 | <0.005 | | | | | 0.0038 (J) |
| 3/23/2017 | | | <0.005 | <0.005 | <0.005 | |
| 5/24/2017 | <0.005 | | <0.005 | <0.005 | 0.0014 (J) | <0.005 |
| 3/28/2018 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 3/29/2018 | | | | | | <0.005 |
| 11/8/2018 | <0.005 | | <0.005 | <0.005 | | |
| 11/9/2018 | | <0.005 | | | <0.005 | <0.005 |
| 2/11/2019 | <0.005 | | | <0.005 | <0.005 | |
| 2/12/2019 | | <0.005 | <0.005 | | | <0.005 |
| 4/17/2019 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 4/18/2019 | | | | | | <0.005 |
| 2/21/2020 | <0.005 | <0.005 | <0.005 | | | <0.005 |
| 2/22/2020 | | | | 0.000616 (J) | 0.000627 (J) | |
| 4/14/2020 | <0.005 | <0.005 | <0.005 | <0.005 | 0.000747 (J) | <0.005 |
| 10/30/2020 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 11/2/2020 | | | | | | <0.005 |
| 3/17/2021 | | | | 0.0032 (J) | 0.00328 (J) | |
| 3/26/2021 | <0.005 | <0.005 | <0.005 | | | <0.005 |
| 10/5/2021 | <0.005 | | | 0.00109 (J) | | <0.005 |
| 10/6/2021 | | <0.005 | <0.005 | | 0.00364 (J) | |
| 3/16/2022 | <0.005 | <0.005 | <0.005 | 0.000916 (J) | 0.00533 | <0.005 |

Time Series

Constituent: pH (SU) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016 | 5.12 | | 5.05 | 5.38 | 6.64 | 4.89 |
| 5/17/2016 | 5.23 | | | 5.32 | 6.52 | 4.92 |
| 5/18/2016 | | | 4.86 | | | |
| 7/12/2016 | 5.77 | | | | | 4.93 |
| 7/13/2016 | | | 5.11 | 5.31 | 6.63 | |
| 9/13/2016 | 4.98 | | | | 6.46 | 4.76 |
| 9/14/2016 | | | 4.84 | 5.21 | | |
| 11/19/2016 | 4.82 | | 4.74 | 5.12 | 6.38 | 4.56 |
| 1/17/2017 | 5.04 | | 4.95 | | | 4.86 |
| 1/18/2017 | | | | 5.22 | 6.47 | |
| 3/22/2017 | 4.73 | | | | | 4.66 |
| 3/23/2017 | | | 4.66 | 5.01 | 6.19 | |
| 5/24/2017 | 5.01 | | 4.86 | 5.19 | 6.34 | 4.83 |
| 10/16/2017 | 4.59 | | 4.47 | 4.96 | 6.23 | 4.53 |
| 3/28/2018 | 4.87 | 5.39 | 4.93 | 5.23 | 6.22 | |
| 3/29/2018 | | | | | | 4.87 |
| 6/2/2018 | 4.92 | 5.06 | 4.83 | 5.22 | 6.24 | 4.87 |
| 11/8/2018 | 5 | | 4.83 | 5.29 | | |
| 11/9/2018 | | 4.92 | | | 6.27 | 4.92 |
| 2/11/2019 | 4.7 | | | 5 | 6.08 | |
| 2/12/2019 | | 4.86 | 4.65 | | | 4.79 |
| 4/17/2019 | 4.9 | 4.79 | 4.71 | 5.13 | 6.14 | |
| 4/18/2019 | | | | | | 4.9 |
| 2/21/2020 | 4.86 | 4.73 | 4.55 | | | 4.8 |
| 2/22/2020 | | | | 5.3 | 6.13 | |
| 4/14/2020 | 5.23 | 4.87 | 4.7 | 5.45 | 6.26 | 4.94 |
| 10/30/2020 | 5 | 4.87 | 4.8 | 5.32 | 6.19 | |
| 11/2/2020 | | | | | | 4.92 |
| 3/17/2021 | | | | 5.62 | 6.14 | |
| 3/26/2021 | 4.86 | 4.7 | 4.54 | | | 4.67 |
| 10/5/2021 | 5 | | | 5.72 | | 4.84 |
| 10/6/2021 | | 4.77 | 4.63 | | 6.03 | |
| 3/16/2022 | 4.92 | 4.91 | 4.64 | 5.56 | 6.2 | 4.75 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|-------------|---------|---------|---------|---------|
| 3/23/2016 | <5 | | <5 | 2.3 (J) | 4.5 (J) | <5 |
| 5/17/2016 | <5 | | | 2.3 (J) | 17 | <5 |
| 5/18/2016 | | | <5 | | | |
| 7/12/2016 | <5 | | | | | <5 |
| 7/13/2016 | | | 1.5 (J) | 2.4 (J) | 15 | |
| 9/13/2016 | <5 | | | | 3.4 (J) | <5 |
| 9/14/2016 | | | 1.6 (J) | 2.4 (J) | | |
| 11/19/2016 | <5 | | 1.8 (J) | 3.3 (J) | 3.5 (J) | 1.5 (J) |
| 1/17/2017 | <5 | | <5 | | | <5 |
| 1/18/2017 | | | | 2.3 (J) | 3.2 (J) | |
| 3/22/2017 | <5 | | | | | 1.9 (J) |
| 3/23/2017 | | | 2.3 (J) | 3.2 (J) | 3.7 (J) | |
| 5/24/2017 | <5 | | 1.6 (J) | 2.4 (J) | 8.8 | <5 |
| 10/16/2017 | <5 | | <5 | 2 (J) | 4 (J) | <5 |
| 3/28/2018 | <5 | 1.7 (J) | 1.6 (J) | 2.4 (J) | 3.3 (J) | |
| 3/29/2018 | | | | | | <5 |
| 6/2/2018 | 1.9 (J) | 3 (J) | 2.9 (J) | 3.7 (J) | 4.3 (J) | 2.8 (J) |
| 11/8/2018 | <5 | | 1.6 (J) | 2.7 (J) | | |
| 11/9/2018 | | <5 | | | 2.3 (J) | <5 |
| 2/11/2019 | 0.774 (J) | | | 2.5 | 2.64 | |
| 2/12/2019 | | 1.97 | 1.97 | | | 1.35 |
| 4/17/2019 | 1.43 | 2.82 | 2.5 | 3.15 | 3.27 | |
| 4/18/2019 | | | | | | 1.82 |
| 9/27/2019 | 1.03 | 2.19 | | | | 1.22 |
| 9/30/2019 | | | 1.64 | 2.34 | 2.82 | |
| 4/14/2020 | 0.928 (J) | 2.71 | 1.62 | 2.99 | 4.2 | 1.18 |
| 10/30/2020 | 0.91 (J) | 3.97 | 1.44 | 2.84 | 4.76 | |
| 11/2/2020 | | | | | | 1.08 |
| 3/17/2021 | | | | 4.35 | 4.07 | |
| 3/26/2021 | 1.49 | 2.04 | 3.25 | | | 2 |
| 10/5/2021 | 1.13 | | | 5.02 | | 2.55 |
| 10/6/2021 | | 5.37 | 5.07 | | 14.5 | |
| 3/16/2022 | 3.6 | 5.37 | 6.85 | 5.64 | 23.1 | 5.93 |

Time Series

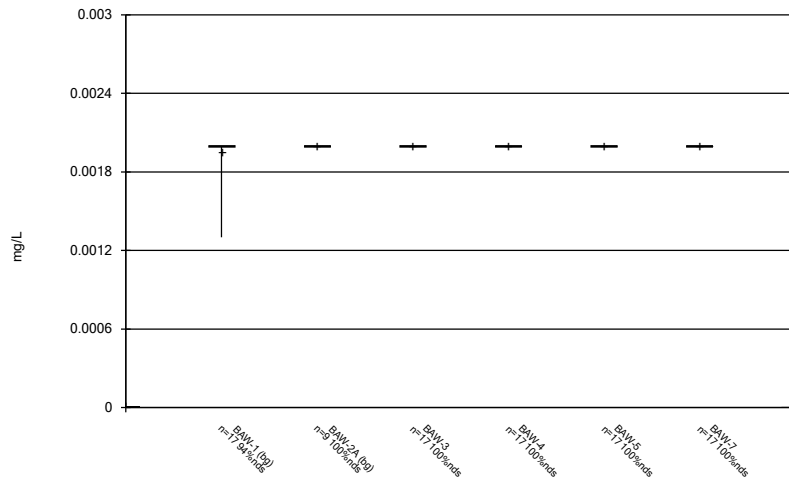
Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/9/2022 5:39 AM View: Constituents View

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016 | 20 | | 30 | 46 | 88 | 22 |
| 5/17/2016 | 24 | | | 52 | 110 | 30 |
| 5/18/2016 | | | 20 | | | |
| 7/12/2016 | 24 | | | | | 26 |
| 7/13/2016 | | | 40 | 36 | 120 | |
| 9/13/2016 | 18 | | | | 92 | 28 |
| 9/14/2016 | | | <10 | 38 | | |
| 11/19/2016 | 20 | | 22 | 50 | 94 | 38 |
| 1/17/2017 | <10 | | 14 | | | 10 |
| 1/18/2017 | | | | 18 | 68 | |
| 3/22/2017 | 12 | | | | | 22 |
| 3/23/2017 | | | 28 | 32 | 80 | |
| 5/24/2017 | 16 (D) | | 18 | 32 | 90 | 22 |
| 10/16/2017 | 58 | | 36 | 64 | 110 | 34 |
| 3/28/2018 | 18 | 30 | 36 | 56 | 86 | |
| 3/29/2018 | | | | | | 50 |
| 6/2/2018 | 6 | 26 | 6 | 22 | 72 | <10 |
| 11/8/2018 | 12 | | 34 | 170 | | |
| 11/9/2018 | | 94 | | | 38 | 20 |
| 2/11/2019 | <10 | | | 23 | 60 | |
| 2/12/2019 | | 22 | 12 | | | <10 |
| 4/17/2019 | 16 | 22 | 27 | 37 | 82 | |
| 4/18/2019 | | | | | | 39 |
| 9/27/2019 | 26 | 25 | | | | <10 |
| 9/30/2019 | | | <10 | <10 | 55 | |
| 4/14/2020 | 25 | 38 | 31 | 30 | 77 | 24 |
| 10/30/2020 | 34 | 48 | 40 | 40 | 88 | |
| 11/2/2020 | | | | | | 28 |
| 3/17/2021 | | | | 44 | 79 | |
| 3/26/2021 | 24 | 24 | 37 | | | 38 |
| 10/5/2021 | 26 | | | 75 | | 45 |
| 10/6/2021 | | 61 | 30 | | 114 | |
| 3/16/2022 | 30 | 26 | 26 | 66 | 133 | 37 |

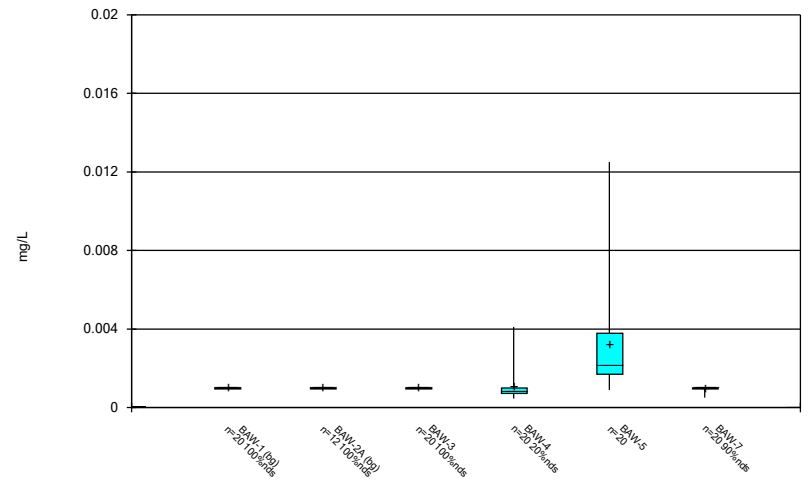
FIGURE B.

Box & Whiskers Plot



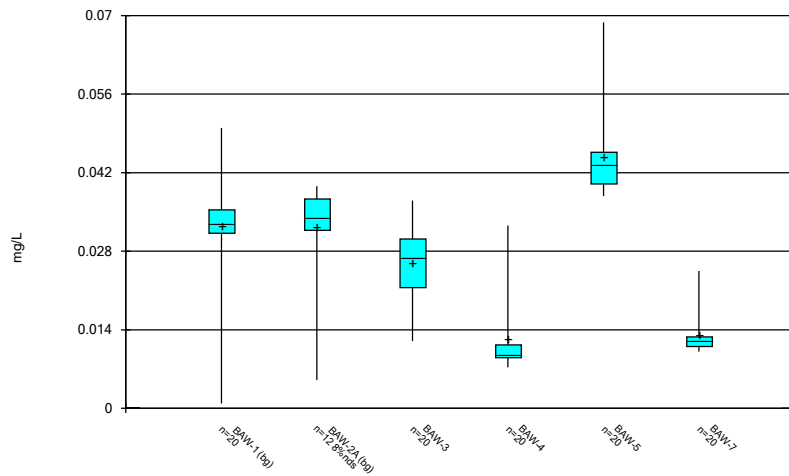
Constituent: Antimony Analysis Run 5/9/2022 5:41 AM View: Constituents View
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



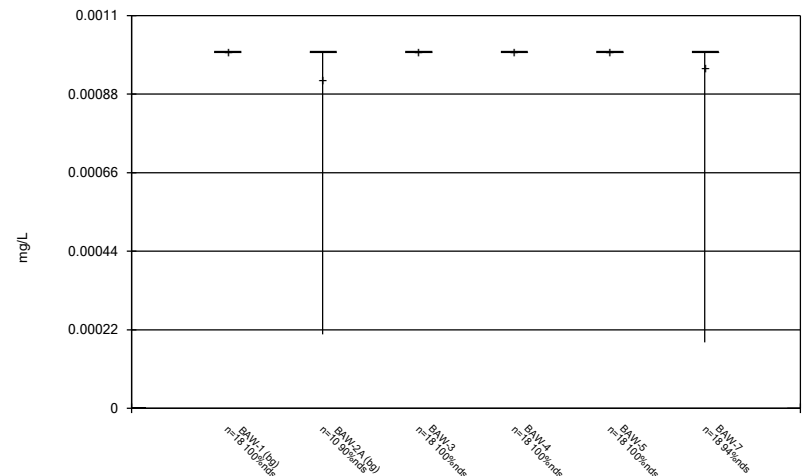
Constituent: Arsenic Analysis Run 5/9/2022 5:41 AM View: Constituents View
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



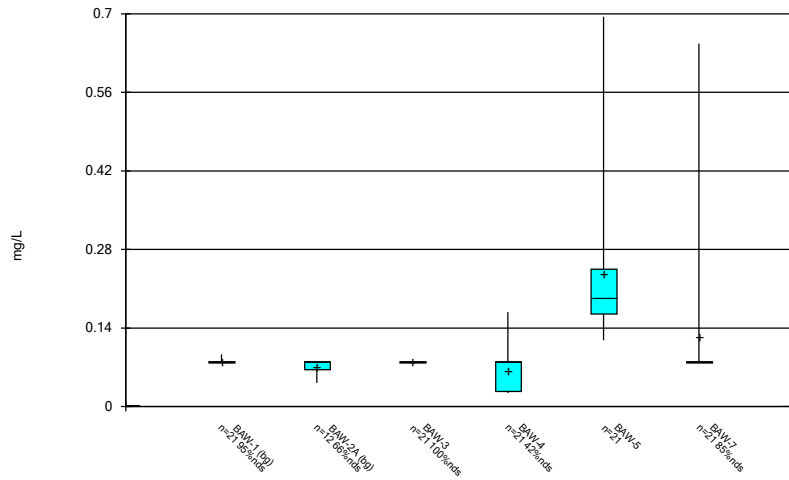
Constituent: Barium Analysis Run 5/9/2022 5:41 AM View: Constituents View
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



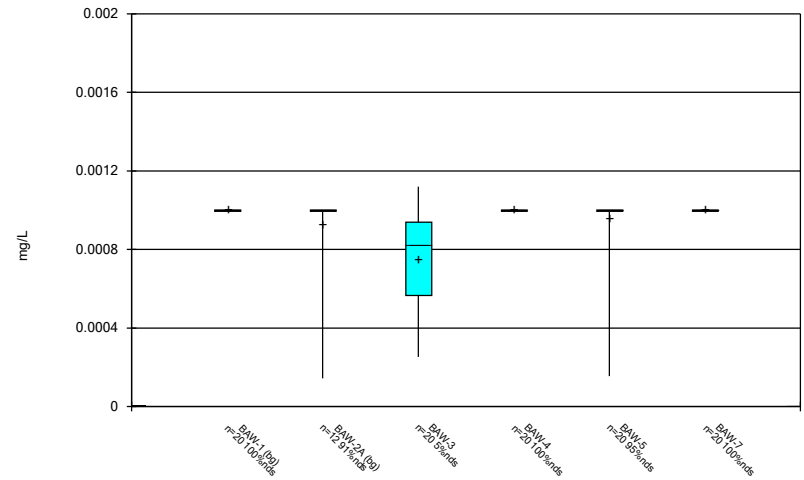
Constituent: Beryllium Analysis Run 5/9/2022 5:41 AM View: Constituents View
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



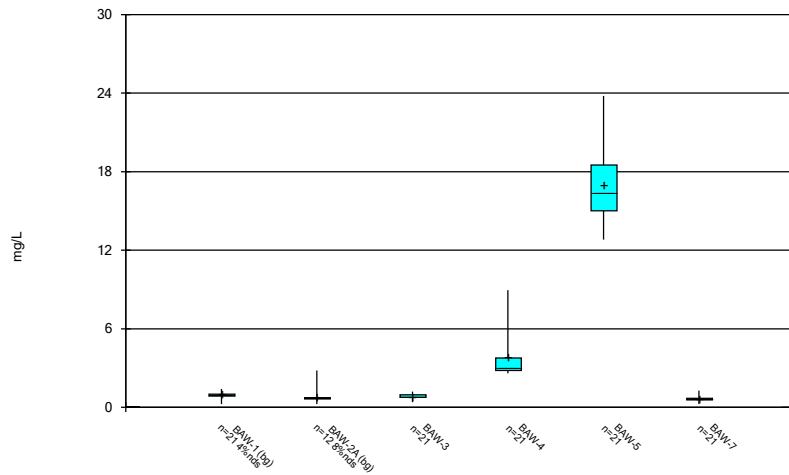
Constituent: Boron Analysis Run 5/9/2022 5:41 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



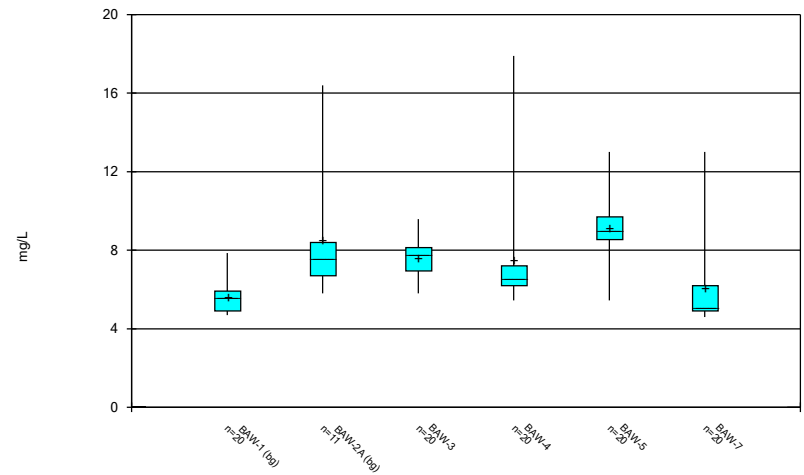
Constituent: Cadmium Analysis Run 5/9/2022 5:41 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



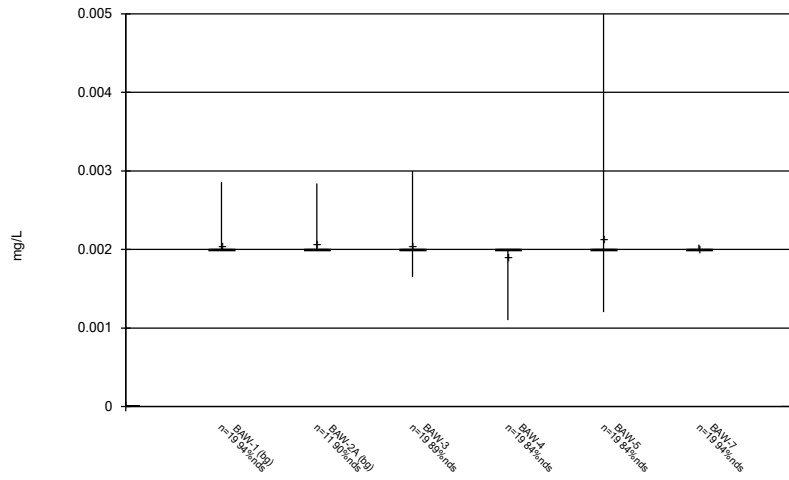
Constituent: Calcium Analysis Run 5/9/2022 5:41 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



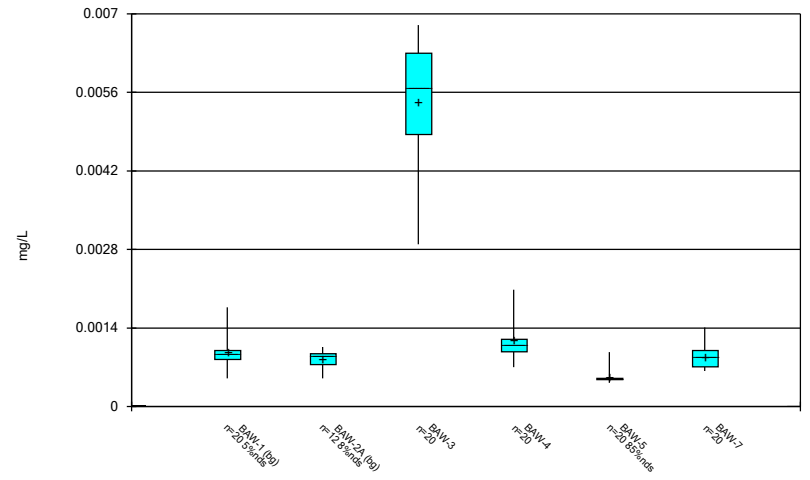
Constituent: Chloride Analysis Run 5/9/2022 5:41 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



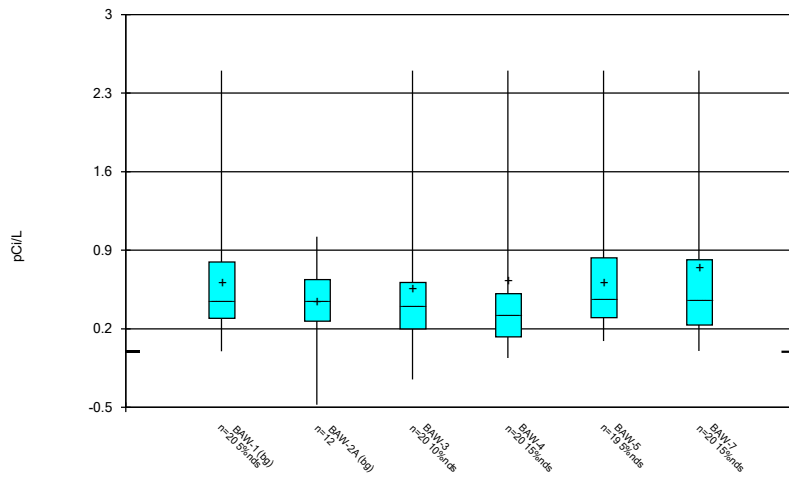
Constituent: Chromium Analysis Run 5/9/2022 5:41 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



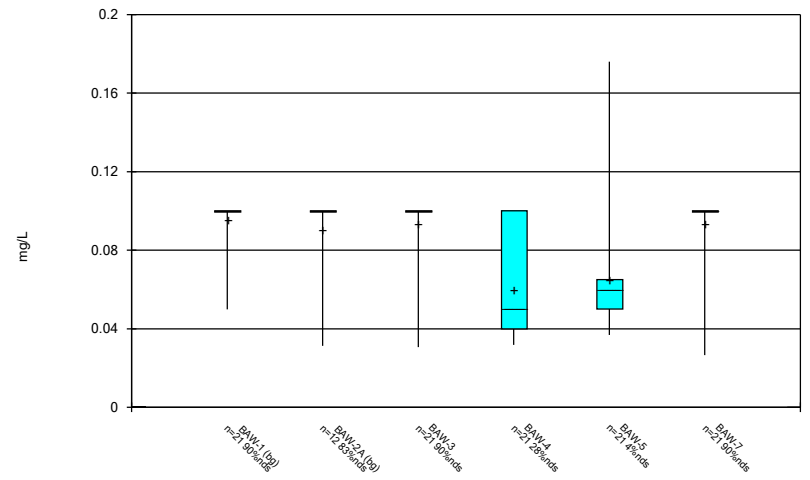
Constituent: Cobalt Analysis Run 5/9/2022 5:41 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



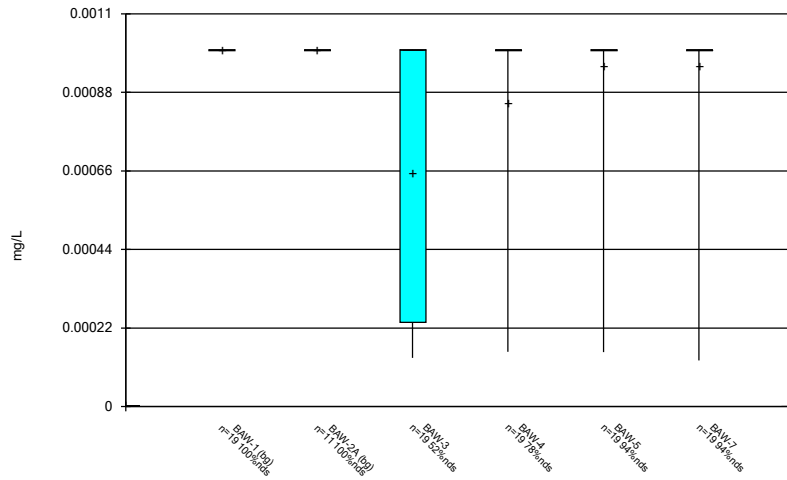
Constituent: Combined Radium 226 + 228 Analysis Run 5/9/2022 5:41 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



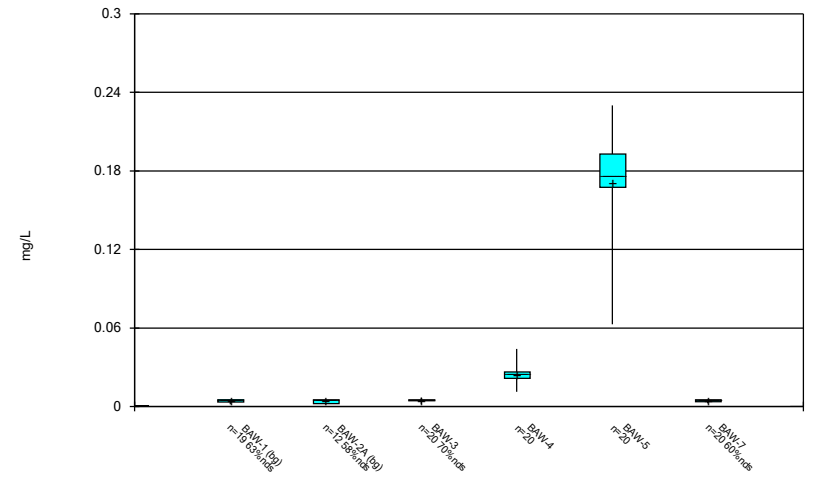
Constituent: Fluoride Analysis Run 5/9/2022 5:41 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



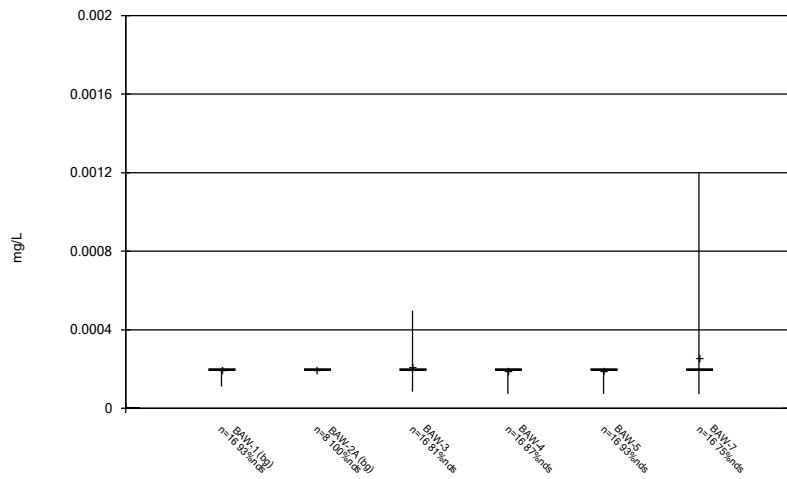
Constituent: Lead Analysis Run 5/9/2022 5:41 AM View: Constituents View
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



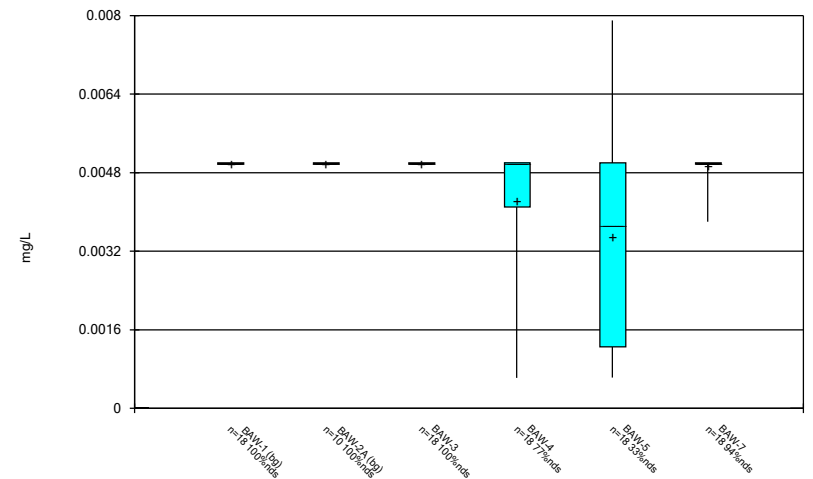
Constituent: Lithium Analysis Run 5/9/2022 5:41 AM View: Constituents View
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



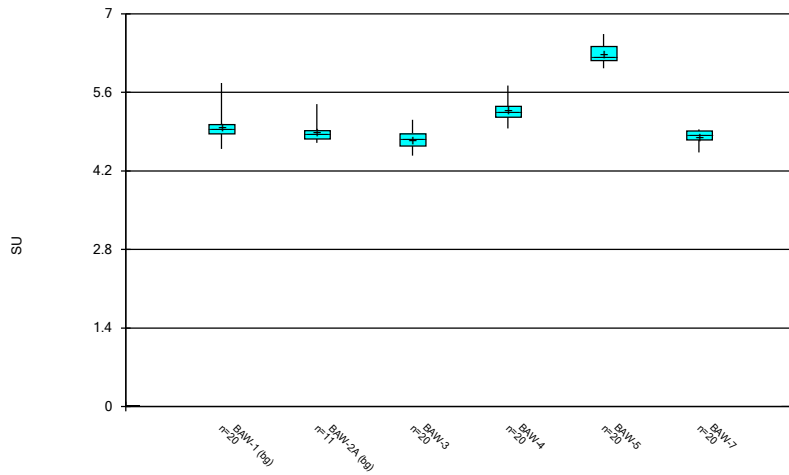
Constituent: Mercury Analysis Run 5/9/2022 5:41 AM View: Constituents View
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



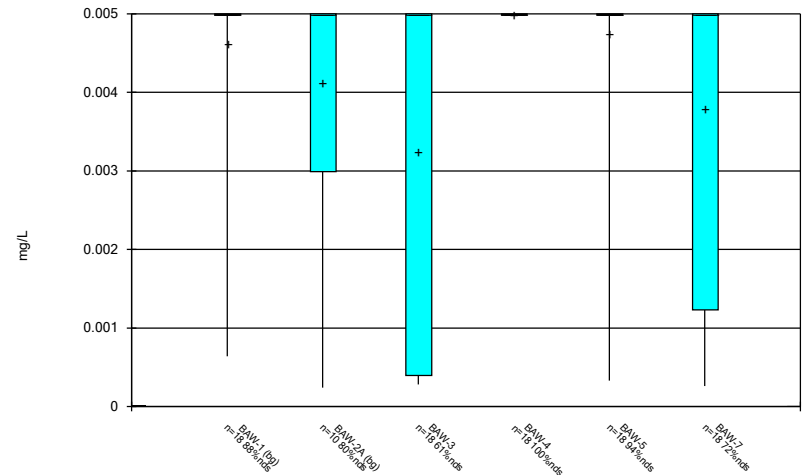
Constituent: Molybdenum Analysis Run 5/9/2022 5:41 AM View: Constituents View
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



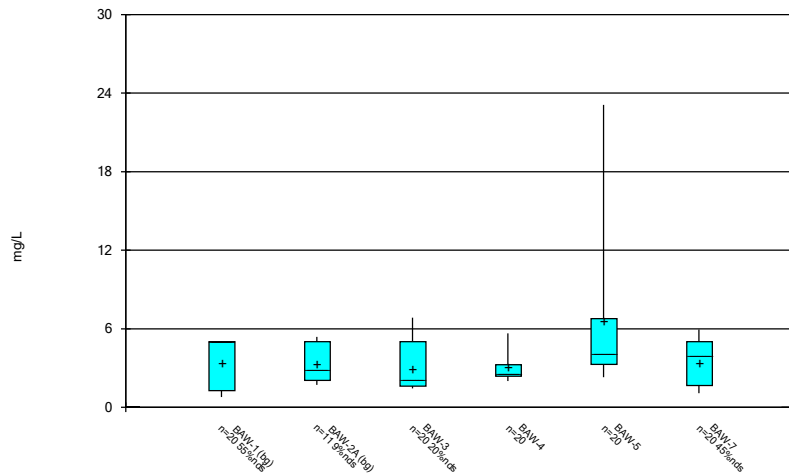
Constituent: pH Analysis Run 5/9/2022 5:41 AM View: Constituents View
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



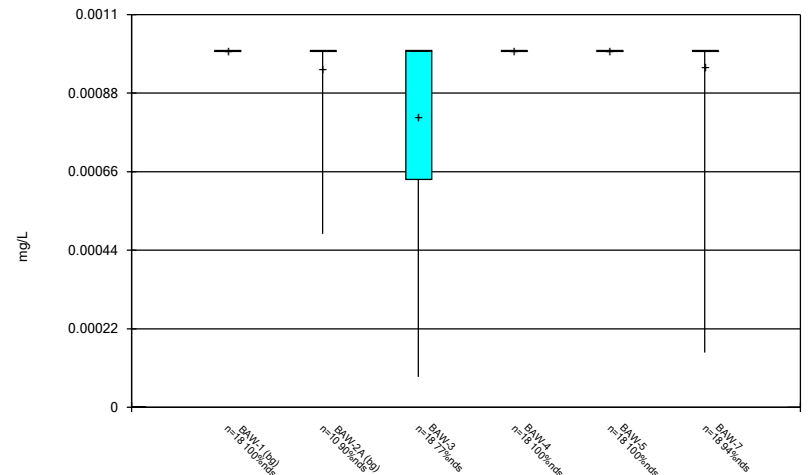
Constituent: Selenium Analysis Run 5/9/2022 5:41 AM View: Constituents View
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



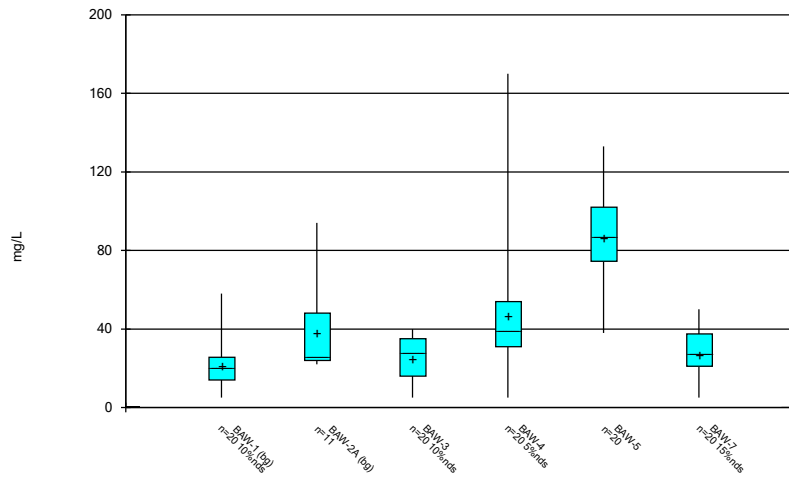
Constituent: Sulfate Analysis Run 5/9/2022 5:41 AM View: Constituents View
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/9/2022 5:41 AM View: Constituents View
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/9/2022 5:41 AM View: Constituents View
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

FIGURE C.

Outlier Summary

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/4/2022, 9:43 PM

BAW-2 Calcium (mg/L)
BAW-1 Lithium (mg/L)

| | | |
|-----------|---------|-----------|
| 3/23/2016 | 2.6 (o) | |
| 7/12/2016 | | 0.012 (o) |

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/9/2022, 5:57 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Obsrv. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------------|-------|------------|------------|-----------|--------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L) | BAW-5 | 0.0928 | n/a | 3/16/2022 | 0.695 | Yes | 42 | n/a | n/a | 88.1 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-7 | 0.0928 | n/a | 3/16/2022 | 0.247 | Yes | 42 | n/a | n/a | 88.1 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | BAW-4 | 2.8 | n/a | 3/16/2022 | 8.94 | Yes | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | BAW-5 | 2.8 | n/a | 3/16/2022 | 23.8 | Yes | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-4 | 16.4 | n/a | 3/16/2022 | 17.9 | Yes | 40 | n/a | n/a | 0 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | BAW-5 | 0.1 | n/a | 3/16/2022 | 0.176 | Yes | 42 | n/a | n/a | 90.48 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| pH (SU) | BAW-4 | 5.399 | 4.542 | 3/16/2022 | 5.56 | Yes | 40 | 2.227 | 0.05266 | 0 | None | sqrt(x) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-5 | 5.399 | 4.542 | 3/16/2022 | 6.2 | Yes | 40 | 2.227 | 0.05266 | 0 | None | sqrt(x) | 0.0009398 | Param Inter 1 of 2 |
| Sulfate (mg/L) | BAW-3 | 5.37 | n/a | 3/16/2022 | 6.85 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-4 | 5.37 | n/a | 3/16/2022 | 5.64 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-5 | 5.37 | n/a | 3/16/2022 | 23.1 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-7 | 5.37 | n/a | 3/16/2022 | 5.93 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-4 | 58.7 | n/a | 3/16/2022 | 66 | Yes | 40 | 4.916 | 1.503 | 5 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-5 | 58.7 | n/a | 3/16/2022 | 133 | Yes | 40 | 4.916 | 1.503 | 5 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 |

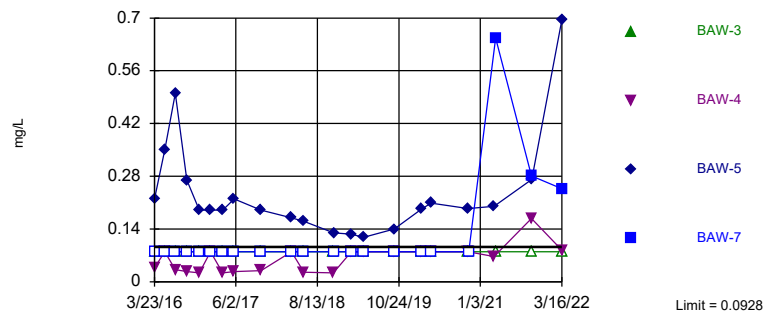
Appendix III Interwell Prediction Limits - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/9/2022, 5:57 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------------------|--------------|---------------|--------------|------------------|--------------|------------|-----------|--------------|----------------|--------------|-------------|----------------|------------------|------------------------------------|
| Boron (mg/L) | BAW-3 | 0.0928 | n/a | 3/16/2022 | 0.08ND | No | 42 | n/a | n/a | 88.1 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-4 | 0.0928 | n/a | 3/16/2022 | 0.084 | No | 42 | n/a | n/a | 88.1 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-5 | 0.0928 | n/a | 3/16/2022 | 0.695 | Yes | 42 | n/a | n/a | 88.1 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-7 | 0.0928 | n/a | 3/16/2022 | 0.247 | Yes | 42 | n/a | n/a | 88.1 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | BAW-3 | 2.8 | n/a | 3/16/2022 | 0.78 | No | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | BAW-4 | 2.8 | n/a | 3/16/2022 | 8.94 | Yes | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | BAW-5 | 2.8 | n/a | 3/16/2022 | 23.8 | Yes | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | BAW-7 | 2.8 | n/a | 3/16/2022 | 1.28 | No | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-3 | 16.4 | n/a | 3/16/2022 | 7.94 | No | 40 | n/a | n/a | 0 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-4 | 16.4 | n/a | 3/16/2022 | 17.9 | Yes | 40 | n/a | n/a | 0 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-5 | 16.4 | n/a | 3/16/2022 | 10.6 | No | 40 | n/a | n/a | 0 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-7 | 16.4 | n/a | 3/16/2022 | 13 | No | 40 | n/a | n/a | 0 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | BAW-3 | 0.1 | n/a | 3/16/2022 | 0.0307J | No | 42 | n/a | n/a | 90.48 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | BAW-4 | 0.1 | n/a | 3/16/2022 | 0.0462J | No | 42 | n/a | n/a | 90.48 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | BAW-5 | 0.1 | n/a | 3/16/2022 | 0.176 | Yes | 42 | n/a | n/a | 90.48 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | BAW-7 | 0.1 | n/a | 3/16/2022 | 0.0266J | No | 42 | n/a | n/a | 90.48 | n/a | n/a | 0.001062 | NP Inter (NDs) 1 of 2 |
| pH (SU) | BAW-3 | 5.399 | 4.542 | 3/16/2022 | 4.64 | No | 40 | 2.227 | 0.05266 | 0 | None | sqrt(x) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-4 | 5.399 | 4.542 | 3/16/2022 | 5.56 | Yes | 40 | 2.227 | 0.05266 | 0 | None | sqrt(x) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-5 | 5.399 | 4.542 | 3/16/2022 | 6.2 | Yes | 40 | 2.227 | 0.05266 | 0 | None | sqrt(x) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-7 | 5.399 | 4.542 | 3/16/2022 | 4.75 | No | 40 | 2.227 | 0.05266 | 0 | None | sqrt(x) | 0.0009398 | Param Inter 1 of 2 |
| Sulfate (mg/L) | BAW-3 | 5.37 | n/a | 3/16/2022 | 6.85 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-4 | 5.37 | n/a | 3/16/2022 | 5.64 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-5 | 5.37 | n/a | 3/16/2022 | 23.1 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-7 | 5.37 | n/a | 3/16/2022 | 5.93 | Yes | 40 | n/a | n/a | 47.5 | n/a | n/a | 0.001141 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-3 | 58.7 | n/a | 3/16/2022 | 26 | No | 40 | 4.916 | 1.503 | 5 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-4 | 58.7 | n/a | 3/16/2022 | 66 | Yes | 40 | 4.916 | 1.503 | 5 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-5 | 58.7 | n/a | 3/16/2022 | 133 | Yes | 40 | 4.916 | 1.503 | 5 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-7 | 58.7 | n/a | 3/16/2022 | 37 | No | 40 | 4.916 | 1.503 | 5 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 |

Sanitas™ v.9.6.33 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit: BAW-5, BAW-7

Prediction Limit
 Interwell Non-parametric

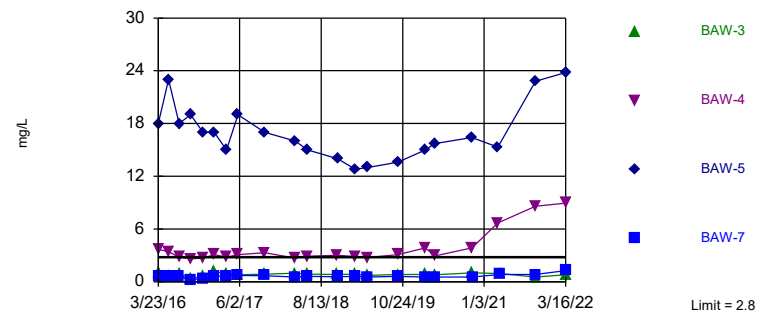


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 88.1% NDs. Annual per-constituent alpha = 0.008462. Individual comparison alpha = 0.001062 (1 of 2). Comparing 4 points to limit.

Constituent: Boron Analysis Run 5/9/2022 5:54 AM View: Appendix III
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sanitas™ v.9.6.33 . UG
 Exceeds Limit: BAW-4, BAW-5

Prediction Limit
 Interwell Non-parametric

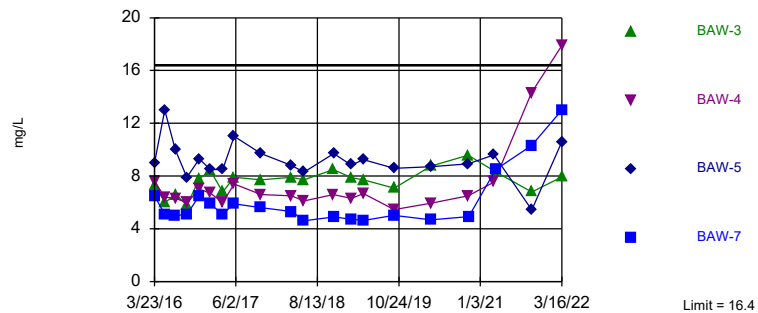


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. 4.878% NDs. Annual per-constituent alpha = 0.008777. Individual comparison alpha = 0.001101 (1 of 2). Comparing 4 points to limit.

Constituent: Calcium Analysis Run 5/9/2022 5:54 AM View: Appendix III
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sanitas™ v.9.6.33 . UG
 Exceeds Limit: BAW-4

Prediction Limit
 Interwell Non-parametric

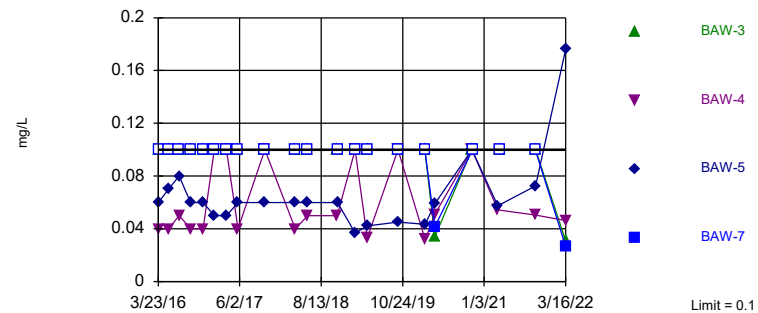


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Annual per-constituent alpha = 0.009091. Individual comparison alpha = 0.001141 (1 of 2). Comparing 4 points to limit.

Constituent: Chloride Analysis Run 5/9/2022 5:54 AM View: Appendix III
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sanitas™ v.9.6.33 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit: BAW-5

Prediction Limit
 Interwell Non-parametric

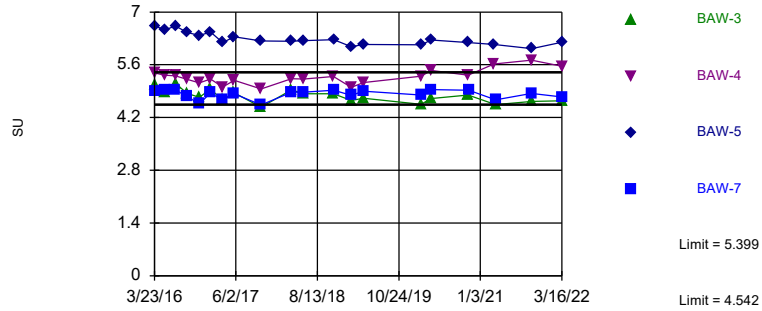


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 90.48% NDs. Annual per-constituent alpha = 0.008462. Individual comparison alpha = 0.001062 (1 of 2). Comparing 4 points to limit.

Constituent: Fluoride Analysis Run 5/9/2022 5:54 AM View: Appendix III
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Exceeds Limits: BAW-4, BAW-5

Prediction Limit Interwell Parametric



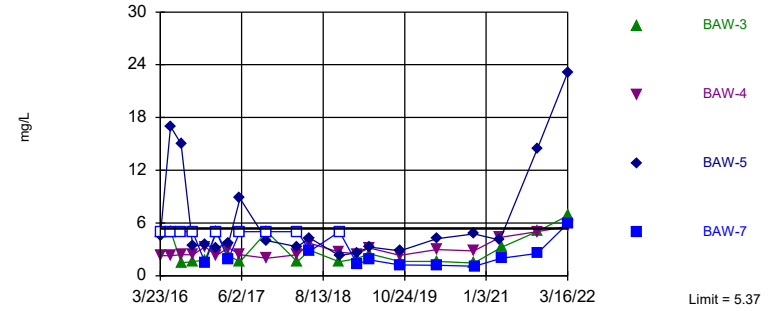
Background Data Summary (based on square root transformation): Mean=2.227, Std. Dev.=0.05266, n=40.
 Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9224, critical = 0.919. Kappa = 1.826 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0009398. Comparing 4 points to limit.

Constituent: pH Analysis Run 5/9/2022 5:54 AM View: Appendix III
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Hollow symbols indicate censored values.

Exceeds Limit: BAW-3, BAW-4, BAW-5, BAW-7

Prediction Limit Interwell Non-parametric



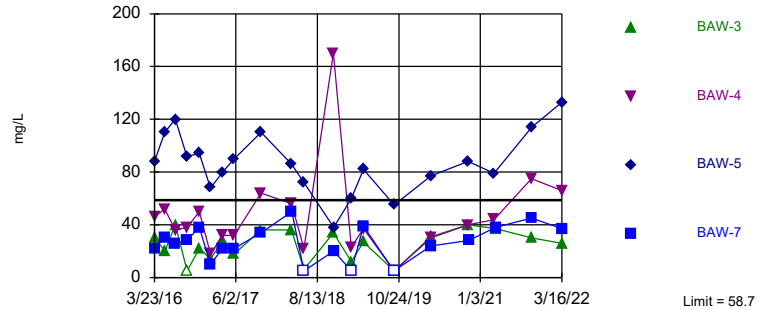
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 47.5% NDs. Annual per-constituent alpha = 0.009091. Individual comparison alpha = 0.001141 (1 of 2). Comparing 4 points to limit.

Constituent: Sulfate Analysis Run 5/9/2022 5:54 AM View: Appendix III
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Hollow symbols indicate censored values.

Exceeds Limit: BAW-4, BAW-5

Prediction Limit Interwell Parametric



Background Data Summary (based on square root transformation): Mean=4.916, Std. Dev.=1.503, n=40, 5% NDs.
 Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9453, critical = 0.919. Kappa = 1.826 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Comparing 4 points to limit.

Constituent: Total Dissolved Solids Analysis Run 5/9/2022 5:54 AM View: Appendix III
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/9/2022 5:57 AM View: Appendix III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-4 | BAW-3 | BAW-7 | BAW-2 (bg) | BAW-5 | BAW-2A (bg) |
|------------|------------|------------|-------|-------|------------|-------|-------------|
| 3/23/2016 | <0.08 | 0.037 (J) | <0.08 | <0.08 | <0.08 | 0.22 | |
| 5/17/2016 | <0.08 | <0.08 | | <0.08 | | 0.35 | |
| 5/18/2016 | | | <0.08 | | <0.08 | | |
| 7/12/2016 | <0.08 | | | <0.08 | | | |
| 7/13/2016 | | 0.032 (J) | <0.08 | | <0.08 | 0.5 | |
| 9/13/2016 | <0.08 | | | <0.08 | | 0.27 | |
| 9/14/2016 | | 0.027 (J) | <0.08 | | <0.08 | | |
| 11/19/2016 | <0.08 | 0.024 (J) | <0.08 | <0.08 | <0.08 | 0.19 | |
| 1/17/2017 | <0.08 | | <0.08 | <0.08 | <0.08 | | |
| 1/18/2017 | | <0.08 | | | | 0.19 | |
| 3/22/2017 | <0.08 | | | <0.08 | | | |
| 3/23/2017 | | 0.024 (J) | <0.08 | | <0.08 | 0.19 | |
| 5/24/2017 | <0.08 | 0.027 (J) | <0.08 | <0.08 | <0.08 | 0.22 | |
| 10/16/2017 | <0.08 | 0.03 (J) | <0.08 | <0.08 | <0.08 | 0.19 | |
| 3/28/2018 | <0.08 | <0.08 | <0.08 | | | 0.17 | <0.08 |
| 3/29/2018 | | | | <0.08 | | | |
| 6/2/2018 | <0.08 | 0.025 (J) | <0.08 | <0.08 | | 0.16 | <0.08 |
| 11/8/2018 | <0.08 | 0.024 (J) | <0.08 | | | | |
| 11/9/2018 | | | | <0.08 | | 0.13 | <0.08 |
| 2/11/2019 | <0.08 | <0.08 | | | | 0.126 | |
| 2/12/2019 | | | <0.08 | <0.08 | | | <0.08 |
| 4/17/2019 | <0.08 | <0.08 | <0.08 | | | 0.118 | <0.08 |
| 4/18/2019 | | | | <0.08 | | | |
| 9/27/2019 | <0.08 | | | <0.08 | | | <0.08 |
| 9/30/2019 | | <0.08 | <0.08 | | | 0.14 | |
| 2/21/2020 | 0.0928 | | <0.08 | <0.08 | | | 0.0589 (J) |
| 2/22/2020 | | <0.08 | | | | 0.193 | |
| 4/14/2020 | <0.08 | <0.08 | <0.08 | <0.08 | | 0.209 | 0.0424 (J) |
| 10/30/2020 | <0.08 | <0.08 | <0.08 | | | 0.194 | 0.0495 (J) |
| 11/2/2020 | | | | <0.08 | | | |
| 3/17/2021 | | 0.0673 (J) | | | | 0.2 | |
| 3/26/2021 | <0.08 | | <0.08 | 0.647 | | | <0.08 |
| 10/5/2021 | <0.08 | 0.168 | | 0.281 | | | |
| 10/6/2021 | | | <0.08 | | | 0.272 | <0.08 |
| 3/16/2022 | <0.08 | 0.084 | <0.08 | 0.247 | | 0.695 | 0.0717 (J) |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/9/2022 5:57 AM View: Appendix III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-4 | BAW-2 (bg) | BAW-2A (bg) |
|------------|------------|-------|-------|-------|-------|------------|-------------|
| 3/23/2016 | <0.5 | 0.65 | 18 | 1.1 | 3.7 | 2.6 (o) | |
| 5/17/2016 | 0.84 | 0.68 | 23 | | 3.4 | | |
| 5/18/2016 | | | | 0.56 | | 1.3 | |
| 7/12/2016 | 0.79 | 0.62 | | | | | |
| 7/13/2016 | | | 18 | 0.95 | 2.8 | 1.1 | |
| 9/13/2016 | 0.42 | 0.25 | 19 | | | | |
| 9/14/2016 | | | | 0.4 | 2.6 | 1.1 | |
| 11/19/2016 | 1.2 | 0.36 | 17 | 0.62 | 2.7 | 1 | |
| 1/17/2017 | 1.4 | 0.66 | | 1.2 | | 0.87 | |
| 1/18/2017 | | | 17 | | 3.1 | | |
| 3/22/2017 | 0.95 | 0.65 | | | | | |
| 3/23/2017 | | | 15 | 0.87 | 2.8 | 0.74 | |
| 5/24/2017 | 1.3 | 0.72 | 19 | 0.81 | 3.1 | 0.84 | |
| 10/16/2017 | 0.93 | 0.7 | 17 | 0.86 | 3.3 | 0.76 | |
| 3/28/2018 | 1 | | 16 | 0.97 | 2.7 | | 2.8 |
| 3/29/2018 | | 0.55 | | | | | |
| 6/2/2018 | 0.93 | 0.6 | 15 | 0.86 | 2.9 | | 0.71 |
| 11/8/2018 | 1 | | | 0.84 | 3 | | |
| 11/9/2018 | | 0.59 | 14 | | | | 0.61 |
| 2/11/2019 | 1 | | 12.8 | | 2.88 | | |
| 2/12/2019 | | 0.608 | | 0.856 | | | 0.757 |
| 4/17/2019 | 0.893 | | 13 | 0.711 | 2.77 | | 0.755 |
| 4/18/2019 | | 0.55 | | | | | |
| 9/27/2019 | 0.8 | 0.598 | | | | | 0.663 |
| 9/30/2019 | | | 13.6 | 0.826 | 3.08 | | |
| 2/21/2020 | 1.02 | 0.552 | | 0.841 | | | 0.648 |
| 2/22/2020 | | | 15 | | 3.86 | | |
| 4/14/2020 | 0.887 | 0.532 | 15.7 | 0.811 | 2.95 | | 0.67 |
| 10/30/2020 | 0.945 | | 16.4 | 1 | 3.84 | | 0.672 |
| 11/2/2020 | | 0.535 | | | | | |
| 3/17/2021 | | | 15.3 | | 6.69 | | |
| 3/26/2021 | 0.965 | 0.848 | | 0.937 | | | 0.644 |
| 10/5/2021 | 0.996 | 0.829 | | | 8.57 | | |
| 10/6/2021 | | | 22.8 | 0.532 | | | <0.5 |
| 3/16/2022 | 1.32 | 1.28 | 23.8 | 0.78 | 8.94 | | 0.539 |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/9/2022 5:57 AM View: Appendix III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-5 | BAW-4 | BAW-3 | BAW-7 | BAW-2 (bg) | BAW-2A (bg) |
|------------|------------|-------|-------|-------|-------|------------|-------------|
| 3/23/2016 | 6.5 | 9 | 7.6 | 7.3 | 6.5 | 5.1 | |
| 5/17/2016 | 4.9 | 13 | 6.4 | | 5.1 | | |
| 5/18/2016 | | | | 6 | | 4.2 | |
| 7/12/2016 | 5.3 | | | | 5 | | |
| 7/13/2016 | | 10 | 6.3 | 6.6 | | 4.7 | |
| 9/13/2016 | 4.8 (F1) | 7.9 | | | 5.1 | | |
| 9/14/2016 | | | 6 | 5.8 | | 4.5 | |
| 11/19/2016 | 7.1 | 9.3 | 7 | 7.8 | 6.5 | 6.1 | |
| 1/17/2017 | 5.8 | | | 8.4 | 5.9 | 5.4 | |
| 1/18/2017 | | 8.5 | 6.7 | | | | |
| 3/22/2017 | 4.9 | | | | 5.1 | | |
| 3/23/2017 | | 8.5 | 6 | 6.8 | | 5.1 | |
| 5/24/2017 | 5.9 | 11 | 7.4 | 7.9 | 5.9 | 5.5 | |
| 10/16/2017 | 5.7 | 9.7 | 6.6 | 7.7 | 5.6 | 6.1 | |
| 3/28/2018 | 5.7 | 8.8 | 6.5 | 7.9 | | | 6.7 |
| 3/29/2018 | | | | | 5.3 | | |
| 6/2/2018 | 4.7 | 8.3 | 6.1 | 7.7 | 4.6 | | 5.8 |
| 11/8/2018 | 5.6 | | 6.6 | 8.5 | | | |
| 11/9/2018 | | 9.7 | | | 4.9 | | 7.2 |
| 2/11/2019 | 4.84 | 8.84 | 6.31 | | | | |
| 2/12/2019 | | | | 7.89 | 4.72 | | 8.4 |
| 4/17/2019 | 4.99 | 9.24 | 6.68 | 7.71 | | | 8.03 |
| 4/18/2019 | | | | | 4.64 | | |
| 9/27/2019 | 5.08 | | | | 5.02 | | 8.37 |
| 9/30/2019 | | 8.59 | 5.45 | 7.07 | | | |
| 4/14/2020 | 4.91 | 8.71 | 5.93 | 8.75 | 4.68 | | 7.57 |
| 10/30/2020 | 5.55 | 8.93 | 6.49 | 9.58 | | | 7.59 |
| 11/2/2020 | | | | | 4.91 | | |
| 3/17/2021 | | 9.6 | 7.55 | | | | |
| 3/26/2021 | 5.92 | | | 8.32 | 8.5 | | 6.21 |
| 10/5/2021 | 6.21 | | 14.3 | | 10.3 | | |
| 10/6/2021 | | 5.44 | | 6.8 | | | 16.4 |
| 3/16/2022 | 7.85 | 10.6 | 17.9 | 7.94 | 13 | | 11.5 |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/9/2022 5:57 AM View: Appendix III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-4 | BAW-3 | BAW-7 | BAW-2 (bg) | BAW-5 | BAW-2A (bg) |
|------------|------------|------------|------------|------------|------------|------------|-------------|
| 3/23/2016 | <0.1 | 0.04 (J) | <0.1 | <0.1 | <0.1 | 0.06 (J) | |
| 5/17/2016 | <0.1 | 0.04 (J) | | <0.1 | | 0.07 (J) | |
| 5/18/2016 | | | <0.1 | | <0.1 | | |
| 7/12/2016 | <0.1 | | | <0.1 | | | |
| 7/13/2016 | | 0.05 (J) | <0.1 | | <0.1 | 0.08 (J) | |
| 9/13/2016 | <0.1 | | | <0.1 | | 0.06 (J) | |
| 9/14/2016 | | 0.04 (J) | <0.1 | | <0.1 | | |
| 11/19/2016 | <0.1 | 0.04 (J) | <0.1 | <0.1 | <0.1 | 0.06 (J) | |
| 1/17/2017 | <0.1 | | <0.1 | <0.1 | <0.1 | | |
| 1/18/2017 | | <0.1 | | | | 0.05 (J) | |
| 3/22/2017 | <0.1 | | | <0.1 | | | |
| 3/23/2017 | | <0.1 | <0.1 | | <0.1 | 0.05 (J) | |
| 5/24/2017 | <0.1 | 0.04 (J) | <0.1 | <0.1 (D) | <0.1 | 0.06 (J) | |
| 10/16/2017 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.06 (J) | |
| 3/28/2018 | <0.1 | 0.04 (J) | <0.1 | | | 0.06 (J) | <0.1 |
| 3/29/2018 | | | | <0.1 | | | |
| 6/2/2018 | <0.1 | 0.05 (J) | <0.1 | <0.1 | | 0.06 (J) | <0.1 |
| 11/8/2018 | <0.1 | 0.05 (J) | <0.1 | | | | |
| 11/9/2018 | | | | <0.1 | | 0.06 (J) | <0.1 |
| 2/11/2019 | <0.1 | <0.1 | | | | 0.0368 (J) | |
| 2/12/2019 | | | <0.1 | <0.1 | | | <0.1 |
| 4/17/2019 | <0.1 | 0.033 (J) | <0.1 | | | 0.0421 (J) | <0.1 |
| 4/18/2019 | | | | <0.1 | | | |
| 9/27/2019 | <0.1 | | | <0.1 | | | 0.0313 (J) |
| 9/30/2019 | | <0.1 | <0.1 | | | 0.045 (J) | |
| 2/21/2020 | <0.1 | | <0.1 | <0.1 | | | <0.1 |
| 2/22/2020 | | 0.0317 (J) | | | | 0.0434 (J) | |
| 4/14/2020 | 0.0532 (J) | 0.0508 (J) | 0.034 (J) | 0.0415 (J) | | 0.059 (J) | 0.0537 (J) |
| 10/30/2020 | <0.1 | <0.1 | <0.1 | | | <0.1 | <0.1 |
| 11/2/2020 | | | | <0.1 | | | |
| 3/17/2021 | | 0.0544 (J) | | | | 0.0575 (J) | |
| 3/26/2021 | <0.1 | | <0.1 | <0.1 | | | <0.1 |
| 10/5/2021 | 0.0499 (J) | 0.0505 (J) | | <0.1 | | | |
| 10/6/2021 | | | <0.1 | | | 0.0725 (J) | <0.1 |
| 3/16/2022 | <0.1 | 0.0462 (J) | 0.0307 (J) | 0.0266 (J) | | 0.176 | <0.1 |

Prediction Limit

Constituent: pH (SU) Analysis Run 5/9/2022 5:57 AM View: Appendix III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-5 | BAW-4 | BAW-3 | BAW-7 | BAW-2 (bg) | BAW-2A (bg) |
|------------|------------|-------|-------|-------|-------|------------|-------------|
| 3/23/2016 | 5.12 | 6.64 | 5.38 | 5.05 | 4.89 | 5.52 | |
| 5/17/2016 | 5.23 | 6.52 | 5.32 | | 4.92 | | |
| 5/18/2016 | | | | 4.86 | | 5.24 | |
| 7/12/2016 | 5.77 | | | | 4.93 | | |
| 7/13/2016 | | 6.63 | 5.31 | 5.11 | | 5.17 | |
| 9/13/2016 | 4.98 | 6.46 | | | 4.76 | | |
| 9/14/2016 | | | 5.21 | 4.84 | | 5.04 | |
| 11/19/2016 | 4.82 | 6.38 | 5.12 | 4.74 | 4.56 | 4.88 | |
| 1/17/2017 | 5.04 | | | 4.95 | 4.86 | 5.04 | |
| 1/18/2017 | | 6.47 | 5.22 | | | | |
| 3/22/2017 | 4.73 | | | | 4.66 | | |
| 3/23/2017 | | 6.19 | 5.01 | 4.66 | | 4.66 | |
| 5/24/2017 | 5.01 | 6.34 | 5.19 | 4.86 | 4.83 | 4.93 | |
| 10/16/2017 | 4.59 | 6.23 | 4.96 | 4.47 | 4.53 | 4.65 | |
| 3/28/2018 | 4.87 | 6.22 | 5.23 | 4.93 | | | 5.39 |
| 3/29/2018 | | | | | 4.87 | | |
| 6/2/2018 | 4.92 | 6.24 | 5.22 | 4.83 | 4.87 | | 5.06 |
| 11/8/2018 | 5 | | 5.29 | 4.83 | | | |
| 11/9/2018 | | 6.27 | | | 4.92 | | 4.92 |
| 2/11/2019 | 4.7 | 6.08 | 5 | | | | |
| 2/12/2019 | | | | 4.65 | 4.79 | | 4.86 |
| 4/17/2019 | 4.9 | 6.14 | 5.13 | 4.71 | | | 4.79 |
| 4/18/2019 | | | | | 4.9 | | |
| 2/21/2020 | 4.86 | | | 4.55 | 4.8 | | 4.73 |
| 2/22/2020 | | 6.13 | 5.3 | | | | |
| 4/14/2020 | 5.23 | 6.26 | 5.45 | 4.7 | 4.94 | | 4.87 |
| 10/30/2020 | 5 | 6.19 | 5.32 | 4.8 | | | 4.87 |
| 11/2/2020 | | | | | 4.92 | | |
| 3/17/2021 | | 6.14 | 5.62 | | | | |
| 3/26/2021 | 4.86 | | | 4.54 | 4.67 | | 4.7 |
| 10/5/2021 | 5 | | 5.72 | | 4.84 | | |
| 10/6/2021 | | 6.03 | | 4.63 | | | 4.77 |
| 3/16/2022 | 4.92 | 6.2 | 5.56 | 4.64 | 4.75 | | 4.91 |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/9/2022 5:57 AM View: Appendix III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-5 | BAW-4 | BAW-3 | BAW-7 | BAW-2 (bg) | BAW-2A (bg) |
|------------|------------|---------|---------|---------|---------|------------|-------------|
| 3/23/2016 | <5 | 4.5 (J) | 2.3 (J) | <5 | <5 | <5 | |
| 5/17/2016 | <5 | 17 | 2.3 (J) | | <5 | | |
| 5/18/2016 | | | | <5 | | <5 | |
| 7/12/2016 | <5 | | | | <5 | | |
| 7/13/2016 | | 15 | 2.4 (J) | 1.5 (J) | | <5 | |
| 9/13/2016 | <5 | 3.4 (J) | | | <5 | | |
| 9/14/2016 | | | 2.4 (J) | 1.6 (J) | | <5 | |
| 11/19/2016 | <5 | 3.5 (J) | 3.3 (J) | 1.8 (J) | 1.5 (J) | <5 | |
| 1/17/2017 | <5 | | | <5 | <5 | <5 | |
| 1/18/2017 | | 3.2 (J) | 2.3 (J) | | | | |
| 3/22/2017 | <5 | | | | 1.9 (J) | | |
| 3/23/2017 | | 3.7 (J) | 3.2 (J) | 2.3 (J) | | 1.8 (J) | |
| 5/24/2017 | <5 | 8.8 | 2.4 (J) | 1.6 (J) | <5 | 1.5 (J) | |
| 10/16/2017 | <5 | 4 (J) | 2 (J) | <5 | <5 | <5 | |
| 3/28/2018 | <5 | 3.3 (J) | 2.4 (J) | 1.6 (J) | | | 1.7 (J) |
| 3/29/2018 | | | | | <5 | | |
| 6/2/2018 | 1.9 (J) | 4.3 (J) | 3.7 (J) | 2.9 (J) | 2.8 (J) | | 3 (J) |
| 11/8/2018 | <5 | | 2.7 (J) | 1.6 (J) | | | |
| 11/9/2018 | | 2.3 (J) | | | <5 | | <5 |
| 2/11/2019 | 0.774 (J) | 2.64 | 2.5 | | | | |
| 2/12/2019 | | | | 1.97 | 1.35 | | 1.97 |
| 4/17/2019 | 1.43 | 3.27 | 3.15 | 2.5 | | | 2.82 |
| 4/18/2019 | | | | | 1.82 | | |
| 9/27/2019 | 1.03 | | | | 1.22 | | 2.19 |
| 9/30/2019 | | 2.82 | 2.34 | 1.64 | | | |
| 4/14/2020 | 0.928 (J) | 4.2 | 2.99 | 1.62 | 1.18 | | 2.71 |
| 10/30/2020 | 0.91 (J) | 4.76 | 2.84 | 1.44 | | | 3.97 |
| 11/2/2020 | | | | | 1.08 | | |
| 3/17/2021 | | 4.07 | 4.35 | | | | |
| 3/26/2021 | 1.49 | | | 3.25 | 2 | | 2.04 |
| 10/5/2021 | 1.13 | | 5.02 | | 2.55 | | |
| 10/6/2021 | | 14.5 | | 5.07 | | | 5.37 |
| 3/16/2022 | 3.6 | 23.1 | 5.64 | 6.85 | 5.93 | | 5.37 |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/9/2022 5:57 AM View: Appendix III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-5 | BAW-4 | BAW-3 | BAW-7 | BAW-2 (bg) | BAW-2A (bg) |
|------------|------------|-------|-------|-------|-------|------------|-------------|
| 3/23/2016 | 20 | 88 | 46 | 30 | 22 | 30 | |
| 5/17/2016 | 24 | 110 | 52 | | 30 | | |
| 5/18/2016 | | | | 20 | | 20 | |
| 7/12/2016 | 24 | | | | 26 | | |
| 7/13/2016 | | 120 | 36 | 40 | | 40 | |
| 9/13/2016 | 18 | 92 | | | 28 | | |
| 9/14/2016 | | | 38 | <10 | | 10 | |
| 11/19/2016 | 20 | 94 | 50 | 22 | 38 | 28 | |
| 1/17/2017 | <10 | | | 14 | 10 | 14 | |
| 1/18/2017 | | 68 | 18 | | | | |
| 3/22/2017 | 12 | | | | 22 | | |
| 3/23/2017 | | 80 | 32 | 28 | | 16 | |
| 5/24/2017 | 16 (D) | 90 | 32 | 18 | 22 | 12 | |
| 10/16/2017 | 58 | 110 | 64 | 36 | 34 | 50 | |
| 3/28/2018 | 18 | 86 | 56 | 36 | | | 30 |
| 3/29/2018 | | | | | 50 | | |
| 6/2/2018 | 6 | 72 | 22 | 6 | <10 | | 26 |
| 11/8/2018 | 12 | | 170 | 34 | | | |
| 11/9/2018 | | 38 | | | 20 | | 94 |
| 2/11/2019 | <10 | 60 | 23 | | | | |
| 2/12/2019 | | | | 12 | <10 | | 22 |
| 4/17/2019 | 16 | 82 | 37 | 27 | | | 22 |
| 4/18/2019 | | | | | 39 | | |
| 9/27/2019 | 26 | | | | <10 | | 25 |
| 9/30/2019 | | 55 | <10 | <10 | | | |
| 4/14/2020 | 25 | 77 | 30 | 31 | 24 | | 38 |
| 10/30/2020 | 34 | 88 | 40 | 40 | | | 48 |
| 11/2/2020 | | | | | 28 | | |
| 3/17/2021 | | 79 | 44 | | | | |
| 3/26/2021 | 24 | | | 37 | 38 | | 24 |
| 10/5/2021 | 26 | | 75 | | 45 | | |
| 10/6/2021 | | 114 | | 30 | | | 61 |
| 3/16/2022 | 30 | 133 | 66 | 26 | 37 | | 26 |

FIGURE E.

Appendix III Trend Test Summary - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/9/2022, 6:05 AM

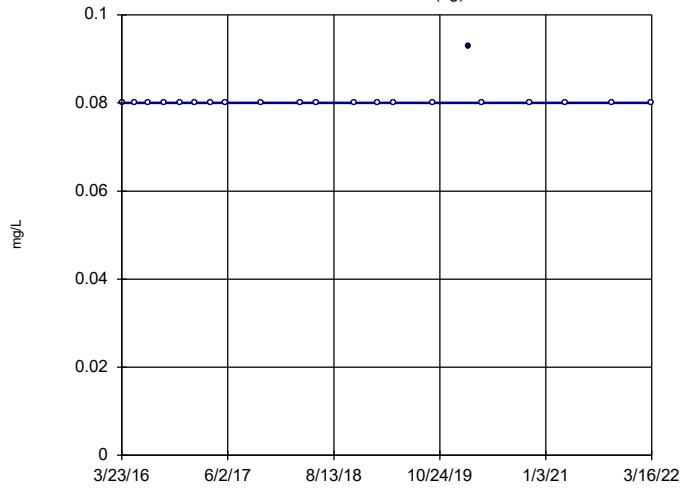
| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Calcium (mg/L) | BAW-2 (bg) | -0.4143 | -23 | -21 | Yes | 8 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-2 (bg) | -0.5393 | -29 | -25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-5 | -0.07651 | -120 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-1 (bg) | -0.4138 | -91 | -81 | Yes | 20 | 55 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-4 | 0.2517 | 91 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |

Appendix III Trend Test Summary - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/9/2022, 6:05 AM

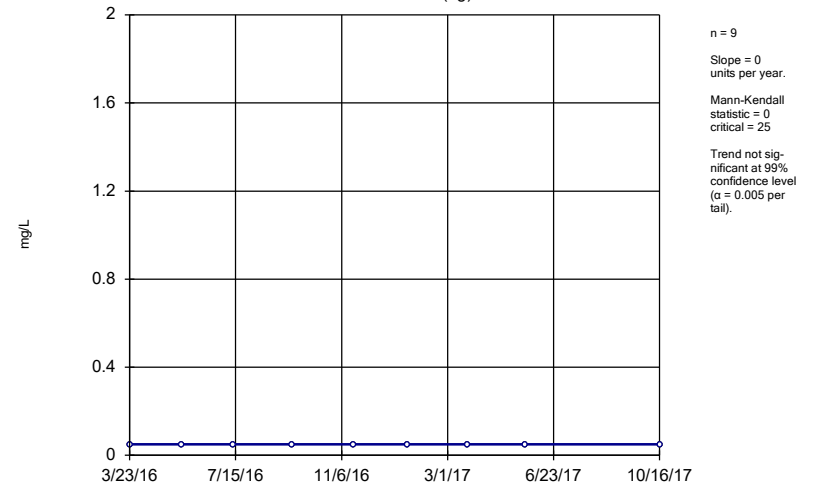
| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|-------------------|-----------------|-------------|------------|------------|-----------|-----------|------------|------------|-------------|-----------|
| Boron (mg/L) | BAW-1 (bg) | 0 | 10 | 87 | No | 21 | 95.24 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-2 (bg) | 0 | 0 | 25 | No | 9 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-2A (bg) | 0 | -18 | -38 | No | 12 | 66.67 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-5 | -0.008655 | -21 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-7 | 0 | 51 | 87 | No | 21 | 85.71 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-1 (bg) | 0.02611 | 44 | 87 | No | 21 | 4.762 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-2 (bg) | -0.4143 | -23 | -21 | Yes | 8 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-2A (bg) | -0.06268 | -36 | -38 | No | 12 | 8.333 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-4 | 0.2004 | 75 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-5 | -0.5605 | -46 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | BAW-1 (bg) | 0.05579 | 20 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | BAW-2 (bg) | 1.001 | 18 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | BAW-2A (bg) | 1.003 | 21 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | BAW-4 | 0.08219 | 18 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | BAW-1 (bg) | 0 | -31 | -87 | No | 21 | 90.48 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | BAW-2 (bg) | 0 | 0 | 25 | No | 9 | 100 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | BAW-2A (bg) | 0 | -1 | -38 | No | 12 | 83.33 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | BAW-5 | 0 | -13 | -87 | No | 21 | 4.762 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-1 (bg) | -0.0225 | -34 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-2 (bg) | -0.5393 | -29 | -25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-2A (bg) | -0.07555 | -24 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-4 | 0.03938 | 50 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-5 | -0.07651 | -120 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-1 (bg) | -0.4138 | -91 | -81 | Yes | 20 | 55 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-2 (bg) | 0 | -11 | -25 | No | 9 | 77.78 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-2A (bg) | 0.6255 | 20 | 34 | No | 11 | 9.091 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-3 | 0.008336 | 16 | 81 | No | 20 | 20 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-4 | 0.2517 | 91 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-5 | 0.02583 | 2 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-7 | -0.1687 | -56 | -81 | No | 20 | 45 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-1 (bg) | 1.23 | 37 | 81 | No | 20 | 10 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-2 (bg) | -5.236 | -4 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-2A (bg) | 0.9444 | 5 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-4 | 1.829 | 15 | 81 | No | 20 | 5 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-5 | -2.531 | -24 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |

Sen's Slope Estimator BAW-1 (bg)



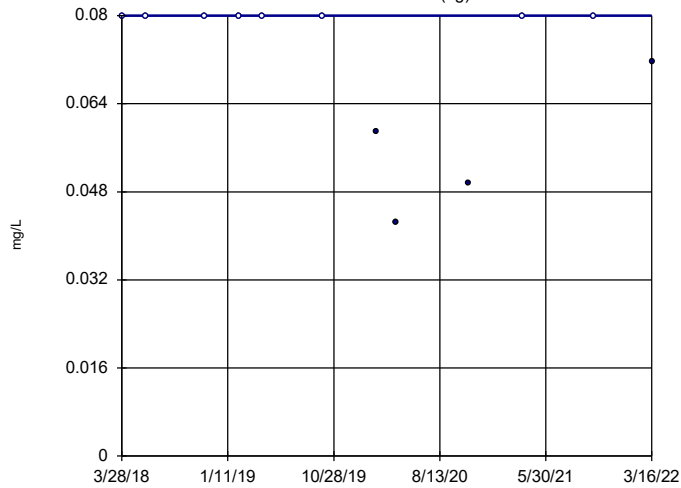
Constituent: Boron Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator BAW-2 (bg)



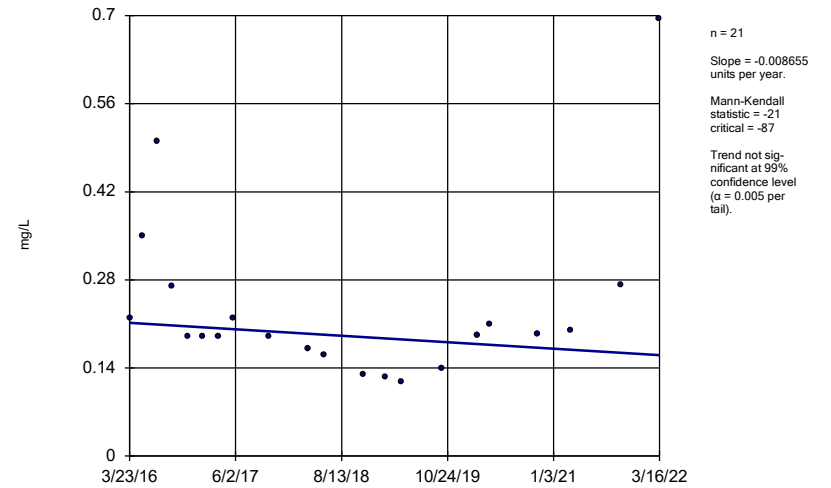
Constituent: Boron Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator BAW-2A (bg)



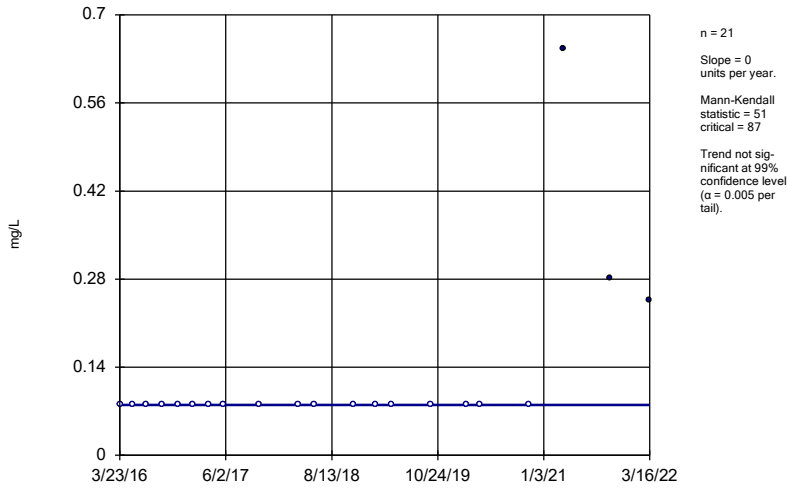
Constituent: Boron Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator BAW-5



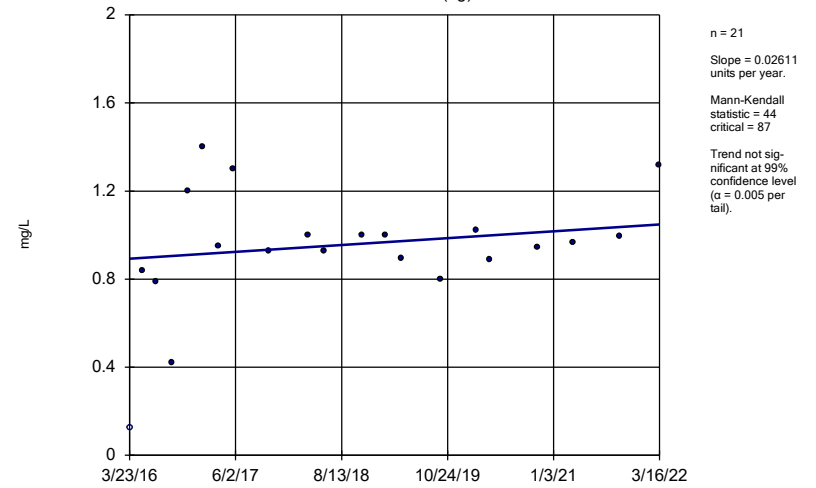
Constituent: Boron Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator
BAW-7



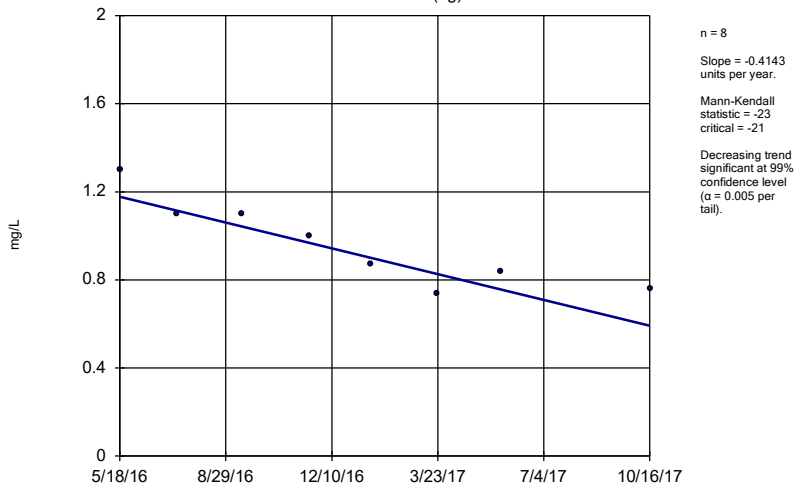
Constituent: Boron Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator
BAW-1 (bg)



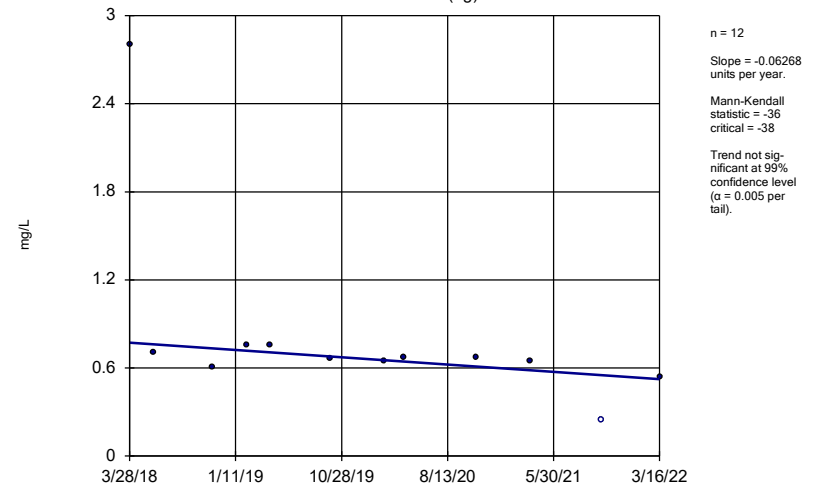
Constituent: Calcium Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator
BAW-2 (bg)



Constituent: Calcium Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

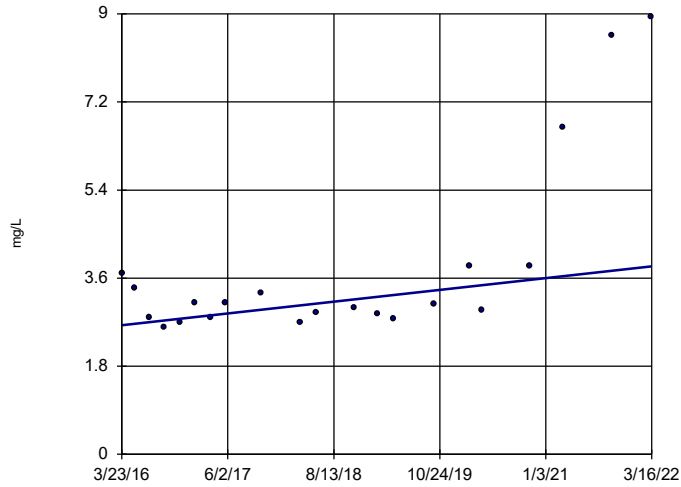
Sen's Slope Estimator
BAW-2A (bg)



Constituent: Calcium Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

BAW-4

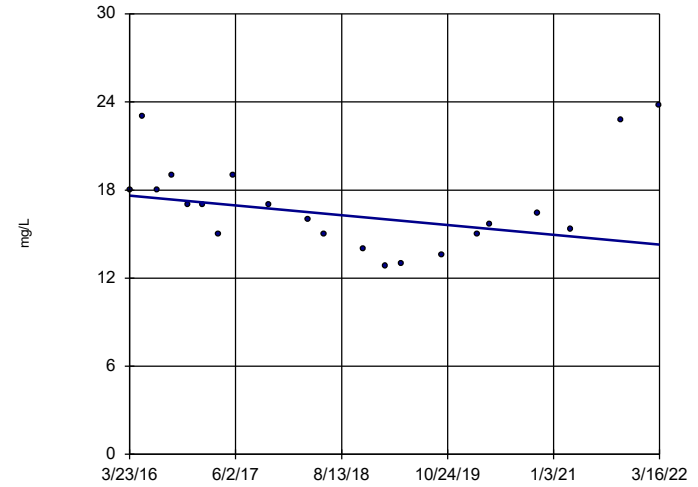


n = 21
 Slope = 0.2004
 units per year.
 Mann-Kendall
 statistic = 75
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

BAW-5

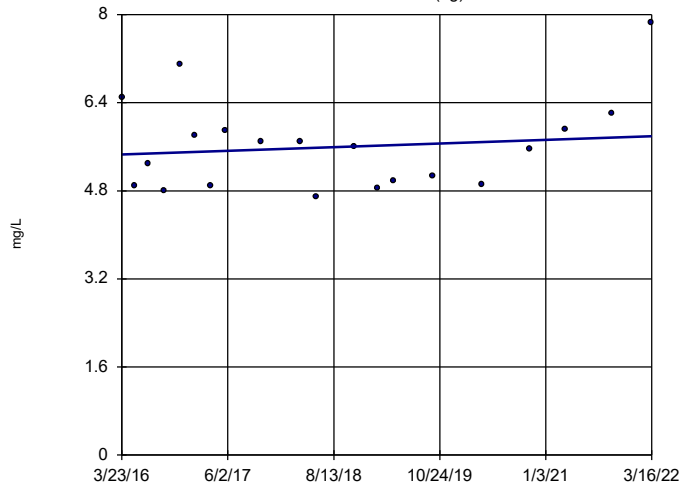


n = 21
 Slope = -0.5605
 units per year.
 Mann-Kendall
 statistic = -46
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

BAW-1 (bg)

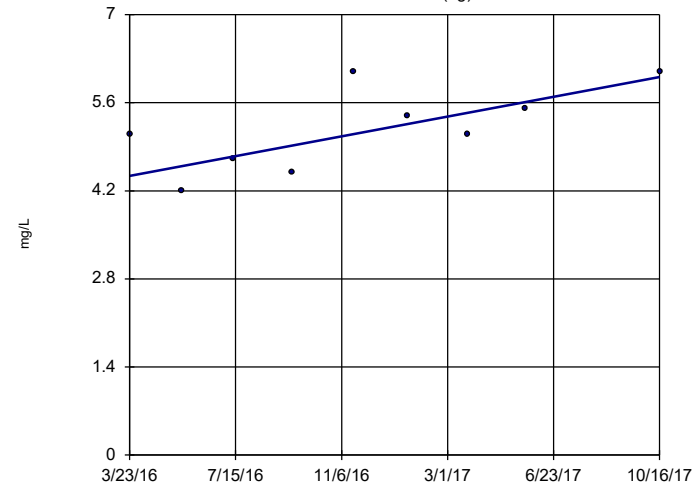


n = 20
 Slope = 0.05579
 units per year.
 Mann-Kendall
 statistic = 20
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

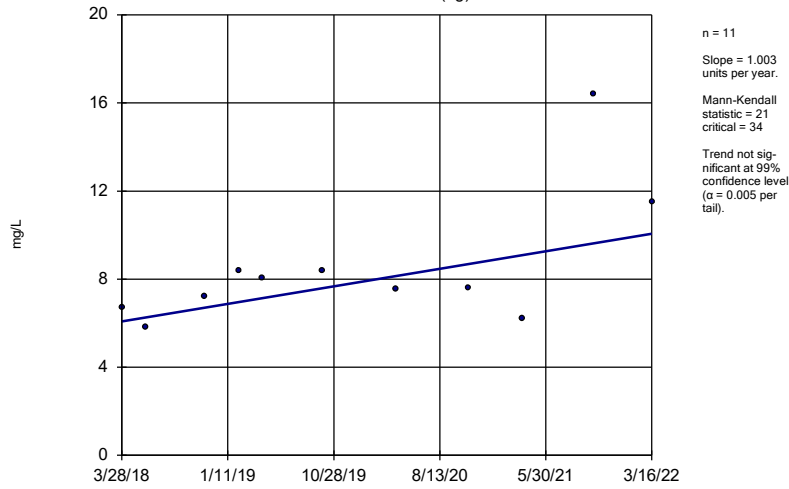
BAW-2 (bg)



n = 9
 Slope = 1.001
 units per year.
 Mann-Kendall
 statistic = 18
 critical = 25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

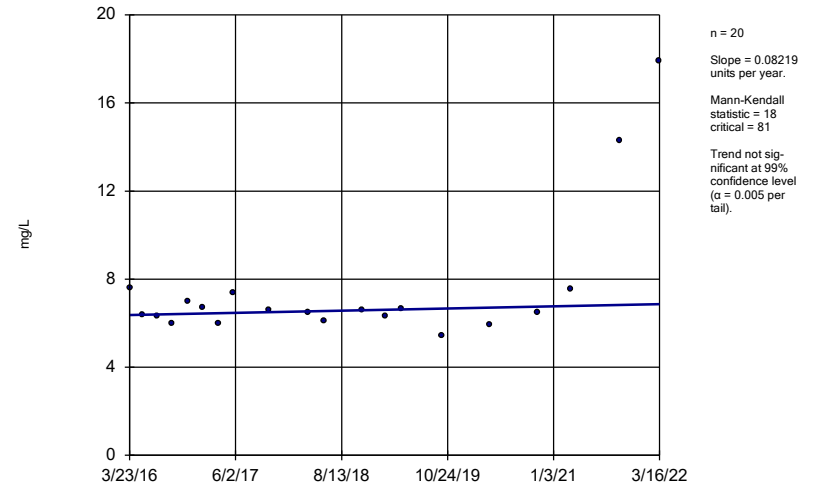
Constituent: Chloride Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator BAW-2A (bg)



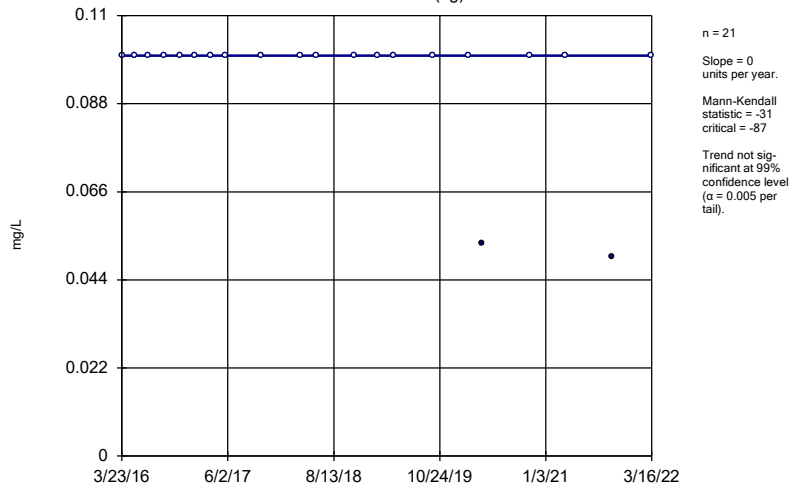
Constituent: Chloride Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator BAW-4



Constituent: Chloride Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator BAW-1 (bg)



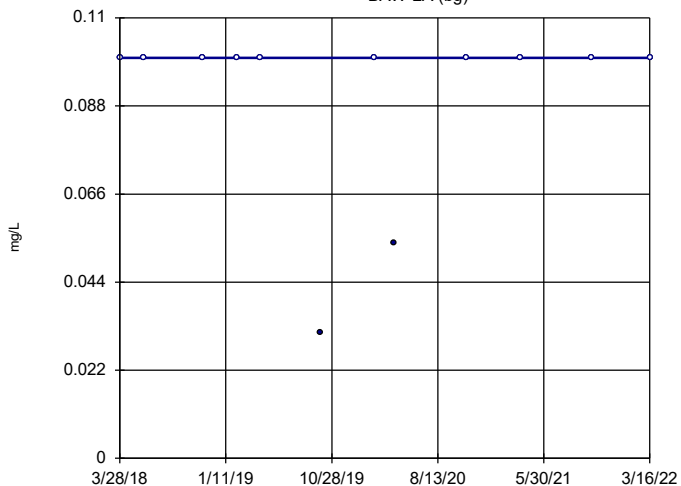
Constituent: Fluoride Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator BAW-2 (bg)



Constituent: Fluoride Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

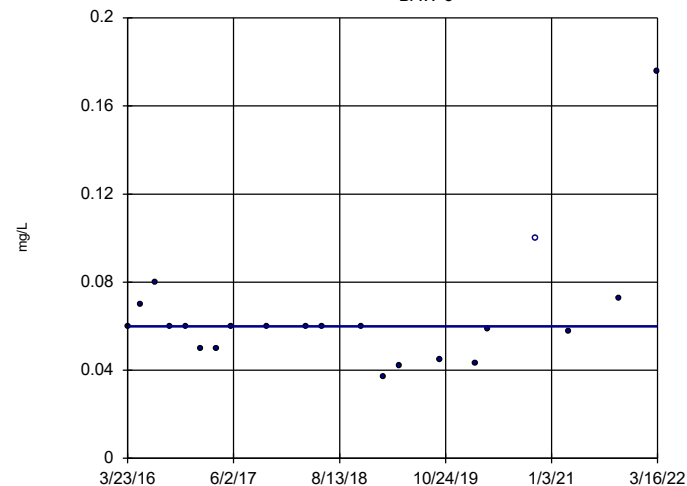
Sen's Slope Estimator BAW-2A (bg)



n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = -1
critical = -38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

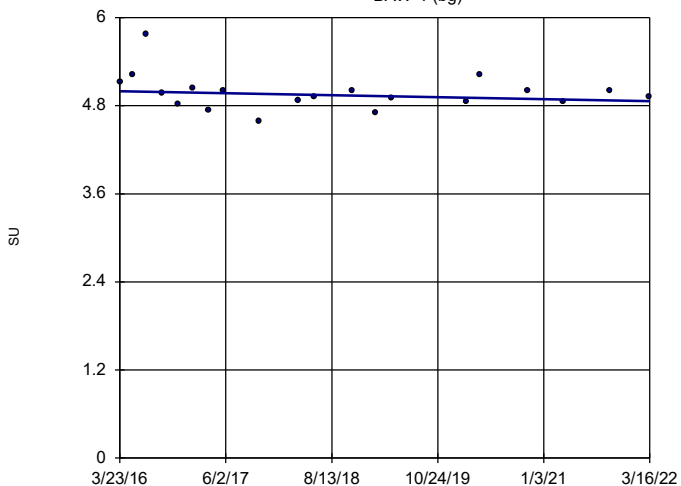
Sen's Slope Estimator BAW-5



n = 21
Slope = 0
units per year.
Mann-Kendall
statistic = -13
critical = -87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

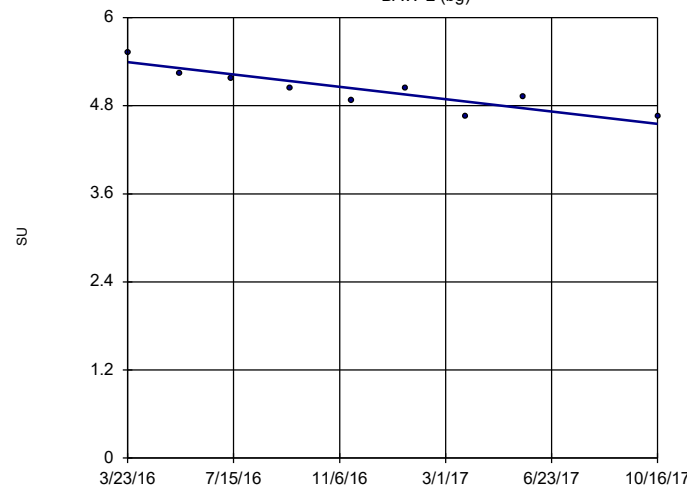
Sen's Slope Estimator BAW-1 (bg)



n = 20
Slope = -0.0225
units per year.
Mann-Kendall
statistic = -34
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

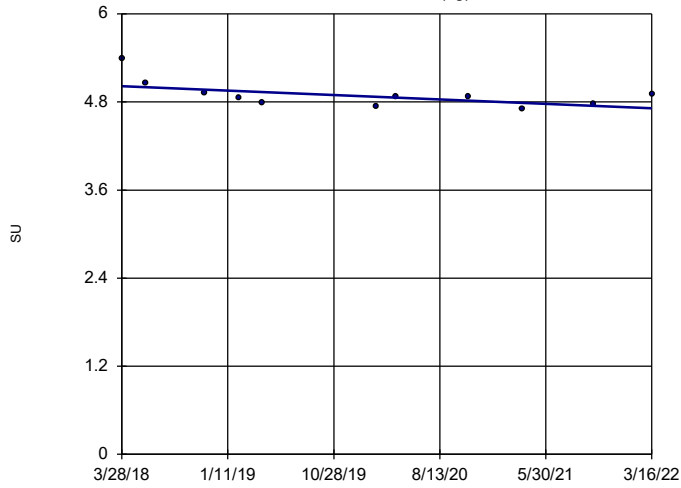
Sen's Slope Estimator BAW-2 (bg)



n = 9
Slope = -0.5393
units per year.
Mann-Kendall
statistic = -29
critical = -25
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

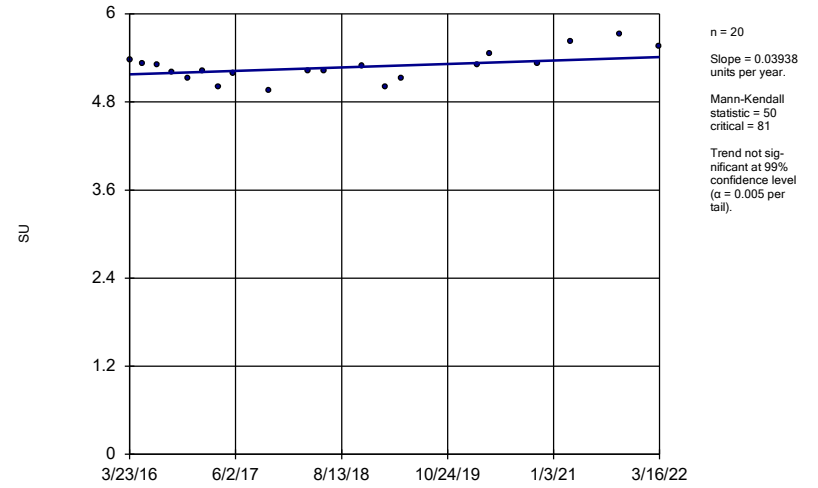
Constituent: pH Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator
BAW-2A (bg)



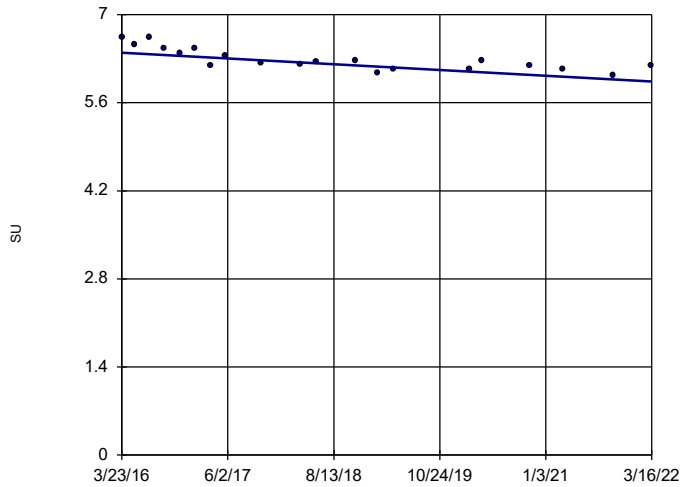
Constituent: pH Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator
BAW-4



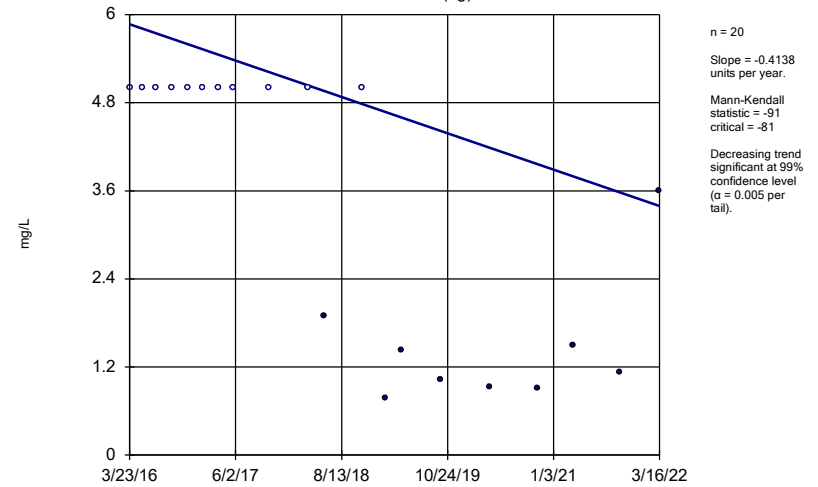
Constituent: pH Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator
BAW-5

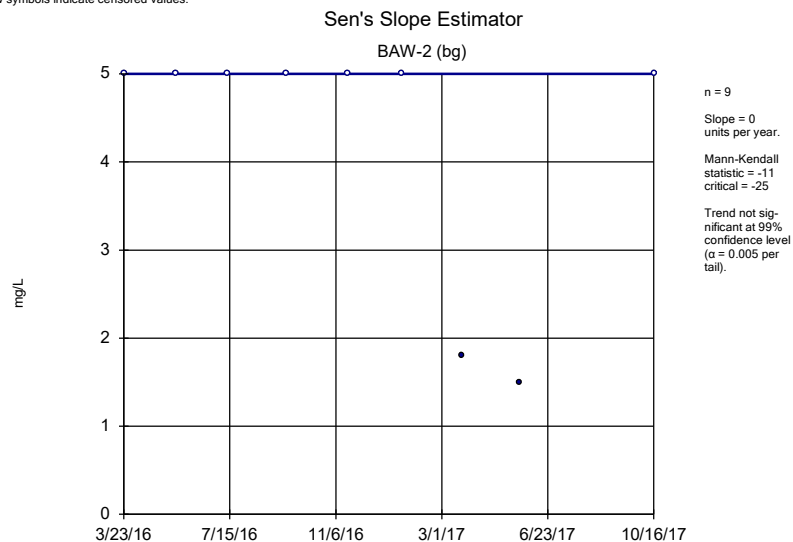


Constituent: pH Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

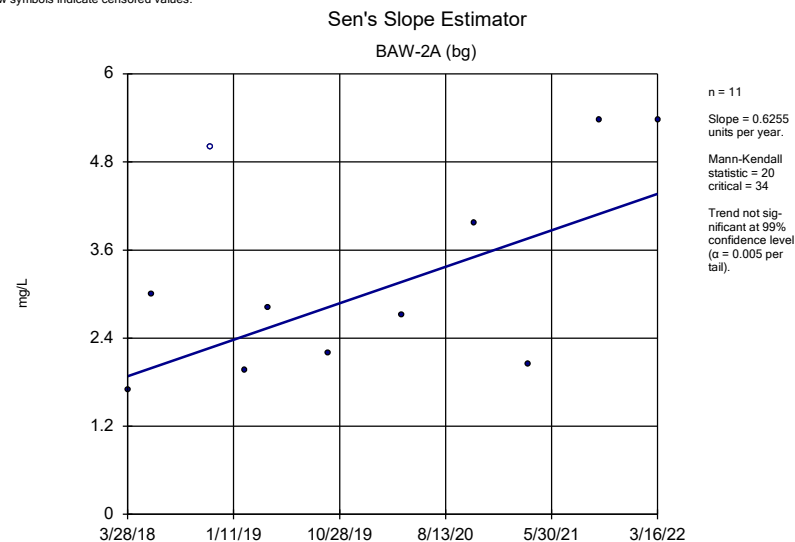
Sen's Slope Estimator
BAW-1 (bg)



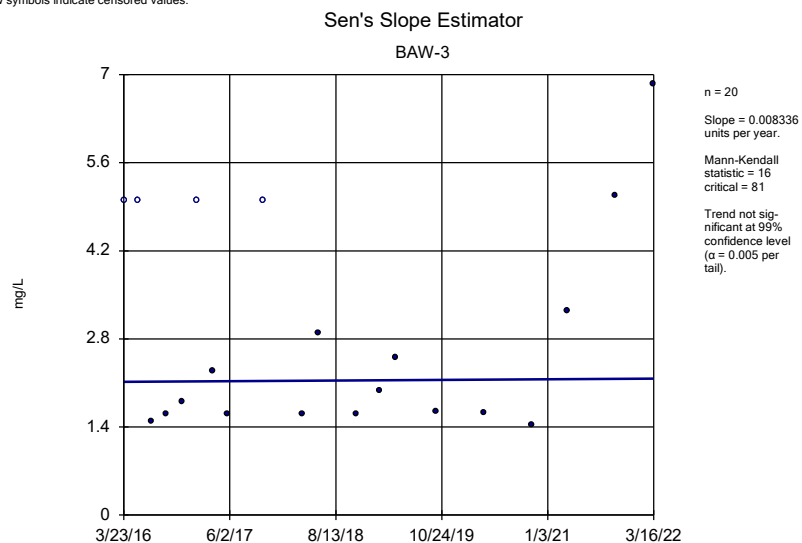
Constituent: Sulfate Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR



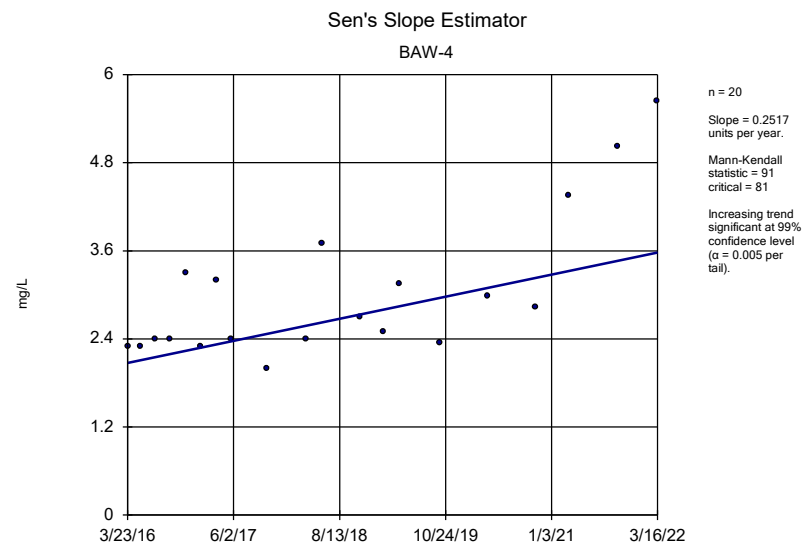
Constituent: Sulfate Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR



Constituent: Sulfate Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

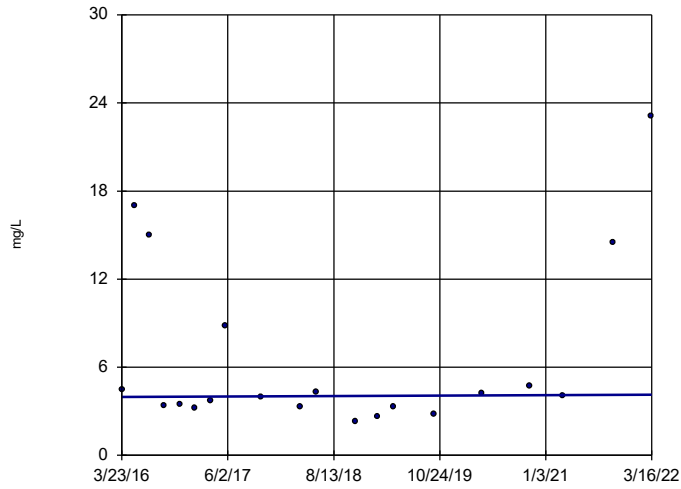


Constituent: Sulfate Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR



Constituent: Sulfate Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

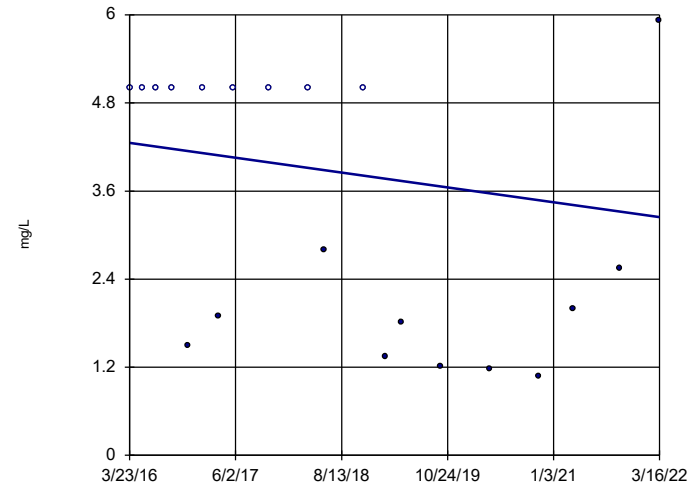
Sen's Slope Estimator BAW-5



n = 20
 Slope = 0.02583
 units per year.
 Mann-Kendall
 statistic = 2
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

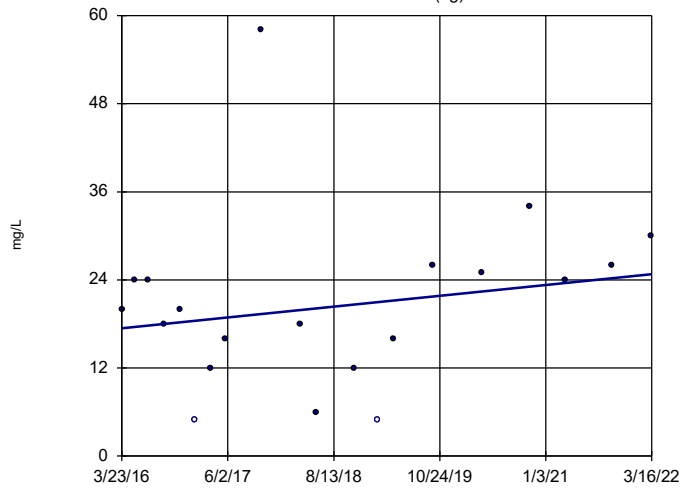
Sen's Slope Estimator BAW-7



n = 20
 Slope = -0.1687
 units per year.
 Mann-Kendall
 statistic = -56
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

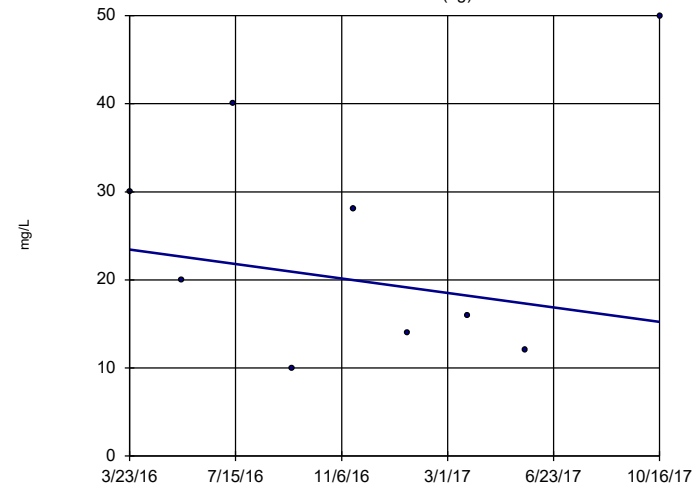
Sen's Slope Estimator BAW-1 (bg)



n = 20
 Slope = 1.23
 units per year.
 Mann-Kendall
 statistic = 37
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

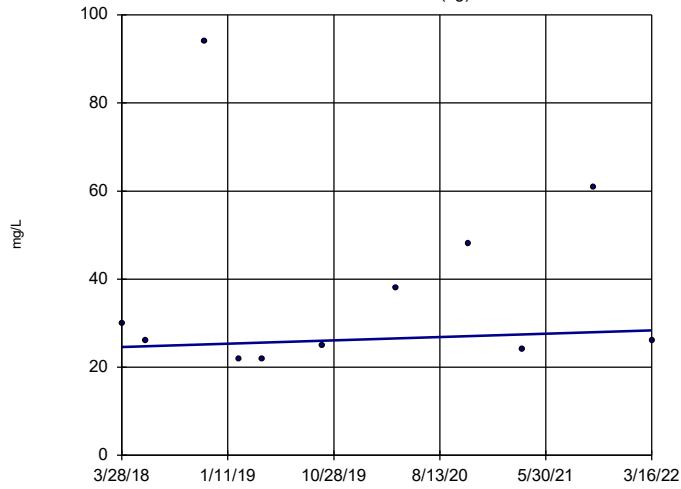
Sen's Slope Estimator BAW-2 (bg)



n = 9
 Slope = -5.236
 units per year.
 Mann-Kendall
 statistic = -4
 critical = -25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator BAW-2A (bg)



Constituent: Total Dissolved Solids Analysis Run 5/9/2022 5:57 AM View: Appendix III - Trend Test
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator BAW-4

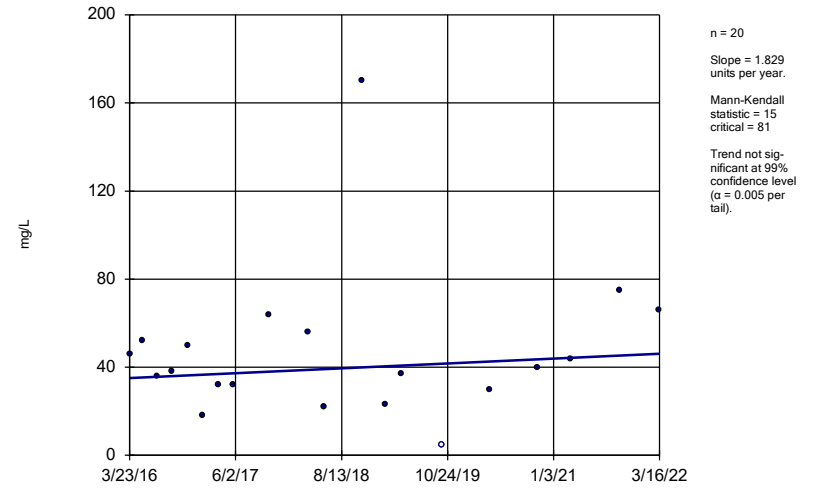


FIGURE F.

Upper Tolerance Limits Summary Table

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/2/2022, 5:11 PM

| <u>Constituent</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------------|-------------------|-------------|----------------|-------------|-------------|-------------|------------------|--------------|---------------------|
| Antimony (mg/L) | 0.002 | n/a | n/a | n/a | n/a | 34 | 97.06 | n/a | 0.1748 | NP Inter(NDs) |
| Arsenic (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 40 | 100 | n/a | 0.1285 | NP Inter(NDs) |
| Barium (mg/L) | 0.05 | n/a | n/a | n/a | n/a | 40 | 2.5 | n/a | 0.1285 | NP Inter(normality) |
| Beryllium (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 36 | 97.22 | n/a | 0.1578 | NP Inter(NDs) |
| Cadmium (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 40 | 97.5 | n/a | 0.1285 | NP Inter(NDs) |
| Chromium (mg/L) | 0.00286 | n/a | n/a | n/a | n/a | 38 | 89.47 | n/a | 0.1424 | NP Inter(NDs) |
| Cobalt (mg/L) | 0.00177 | n/a | n/a | n/a | n/a | 40 | 7.5 | n/a | 0.1285 | NP Inter(normality) |
| Combined Radium 226 + 228 (pCi/L) | 2.5 | n/a | n/a | n/a | n/a | 40 | 5 | n/a | 0.1285 | NP Inter(normality) |
| Fluoride (mg/L) | 0.1 | n/a | n/a | n/a | n/a | 42 | 90.48 | n/a | 0.116 | NP Inter(NDs) |
| Lead (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 38 | 100 | n/a | 0.1424 | NP Inter(NDs) |
| Lithium (mg/L) | 0.00505 | n/a | n/a | n/a | n/a | 39 | 69.23 | n/a | 0.1353 | NP Inter(NDs) |
| Mercury (mg/L) | 0.0002 | n/a | n/a | n/a | n/a | 32 | 93.75 | n/a | 0.1937 | NP Inter(NDs) |
| Molybdenum (mg/L) | 0.005 | n/a | n/a | n/a | n/a | 36 | 88.89 | n/a | 0.1578 | NP Inter(NDs) |
| Selenium (mg/L) | 0.005 | n/a | n/a | n/a | n/a | 36 | 83.33 | n/a | 0.1578 | NP Inter(NDs) |
| Thallium (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 36 | 97.22 | n/a | 0.1578 | NP Inter(NDs) |

FIGURE G.

| PLANT DANIEL BOTTOM ASH 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 | | 0.001 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.05 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.001 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.001 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0029 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.0018 | 0.006 |
| Combined Radium, Total (pCi/L) | 5 | | 2.5 | 5 |
| Fluoride, Total (mg/L) | 4 | | 0.1 | 4 |
| Lead, Total (mg/L) | 0.015 | | 0.001 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.0051 | 0.04 |
| Mercury, Total (mg/L) | 0.002 | | 0.0002 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.005 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Interval Summary Table - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/2/2022, 5:21 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|------------------|-------------|------------------|--------------|---------------|
| Lithium (mg/L) | BAW-5 | 0.193 | 0.156 | 0.04 | Yes | 20 | 0.03845 | 0 | x^2 | 0.01 | Param. |

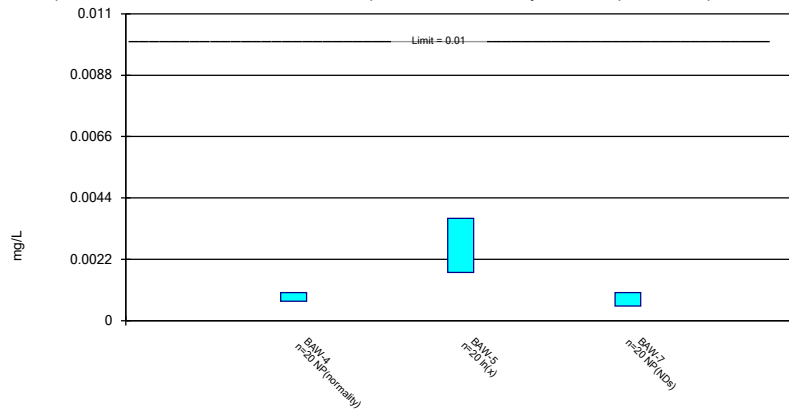
Confidence Interval Summary Table - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 5/2/2022, 5:21 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Std. Dev. | %NDs | Transform | Alpha | Method |
|-----------------------------------|--------------|--------------|--------------|-------------|------------|-----------|----------------|----------|------------|-------------|----------------|
| Arsenic (mg/L) | BAW-4 | 0.001 | 0.00069 | 0.01 | No | 20 | 0.0008342 | 20 | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | BAW-5 | 0.003662 | 0.001725 | 0.01 | No | 20 | 0.002944 | 0 | ln(x) | 0.01 | Param. |
| Arsenic (mg/L) | BAW-7 | 0.001 | 0.00052 | 0.01 | No | 20 | 0.0001509 | 90 | No | 0.01 | NP (NDs) |
| Barium (mg/L) | BAW-3 | 0.02989 | 0.02182 | 2 | No | 20 | 0.007104 | 0 | No | 0.01 | Param. |
| Barium (mg/L) | BAW-4 | 0.0116 | 0.00888 | 2 | No | 20 | 0.006939 | 0 | No | 0.01 | NP (normality) |
| Barium (mg/L) | BAW-5 | 0.046 | 0.039 | 2 | No | 20 | 0.007047 | 0 | No | 0.01 | NP (normality) |
| Barium (mg/L) | BAW-7 | 0.013 | 0.011 | 2 | No | 20 | 0.003649 | 0 | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | BAW-7 | 0.001 | 0.000185 | 0.004 | No | 18 | 0.0001921 | 94.44 | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | BAW-3 | 0.0008978 | 0.0006141 | 0.005 | No | 20 | 0.0002498 | 5 | No | 0.01 | Param. |
| Cadmium (mg/L) | BAW-5 | 0.001 | 0.000155 | 0.005 | No | 20 | 0.0001889 | 95 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-3 | 0.003 | 0.00165 | 0.1 | No | 19 | 0.0002472 | 89.47 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-4 | 0.002 | 0.0015 | 0.1 | No | 19 | 0.0002494 | 84.21 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-5 | 0.0024 | 0.0012 | 0.1 | No | 19 | 0.0007243 | 84.21 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-7 | 0.00206 | 0.002 | 0.1 | No | 19 | 0.00001376 | 94.74 | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | BAW-3 | 0.006089 | 0.004786 | 0.006 | No | 20 | 0.001148 | 0 | No | 0.01 | Param. |
| Cobalt (mg/L) | BAW-4 | 0.001376 | 0.0009965 | 0.006 | No | 20 | 0.0003586 | 0 | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | BAW-5 | 0.000802 | 0.00042 | 0.006 | No | 20 | 0.000124 | 85 | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | BAW-7 | 0.0009944 | 0.0007674 | 0.006 | No | 20 | 0.0001999 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | BAW-3 | 0.646 | 0.126 | 5 | No | 20 | 0.7213 | 10 | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-4 | 0.7846 | 0.09941 | 5 | No | 20 | 0.8414 | 15 | x^(1/3) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | BAW-5 | 0.7838 | 0.3114 | 5 | No | 19 | 0.5517 | 5.263 | x^(1/3) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | BAW-7 | 1.005 | 0.2552 | 5 | No | 20 | 0.8193 | 15 | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | BAW-3 | 0.1 | 0.034 | 4 | No | 21 | 0.02036 | 90.48 | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | BAW-4 | 0.1 | 0.04 | 4 | No | 21 | 0.02667 | 28.57 | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | BAW-5 | 0.07 | 0.05 | 4 | No | 21 | 0.02897 | 4.762 | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | BAW-7 | 0.1 | 0.0415 | 4 | No | 21 | 0.01998 | 90.48 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-3 | 0.001 | 0.00015 | 0.015 | No | 19 | 0.0003872 | 52.63 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-4 | 0.001 | 0.00042 | 0.015 | No | 19 | 0.0003031 | 78.95 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-5 | 0.001 | 0.000152 | 0.015 | No | 19 | 0.0001945 | 94.74 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-7 | 0.001 | 0.000129 | 0.015 | No | 19 | 0.0001998 | 94.74 | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | BAW-3 | 0.005 | 0.0038 | 0.04 | No | 20 | 0.001287 | 70 | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | BAW-4 | 0.02735 | 0.01998 | 0.04 | No | 20 | 0.006551 | 0 | sqrt(x) | 0.01 | Param. |
| Lithium (mg/L) | BAW-5 | 0.193 | 0.156 | 0.04 | Yes | 20 | 0.03845 | 0 | x^2 | 0.01 | Param. |
| Lithium (mg/L) | BAW-7 | 0.005 | 0.0035 | 0.04 | No | 20 | 0.0009717 | 60 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-3 | 0.000497 | 0.00013 | 0.002 | No | 16 | 0.00008398 | 81.25 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-4 | 0.0002 | 0.00013 | 0.002 | No | 16 | 0.00003522 | 87.5 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-5 | 0.0002 | 0.000074 | 0.002 | No | 16 | 0.0000315 | 93.75 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-7 | 0.000235 | 0.000151 | 0.002 | No | 16 | 0.0002549 | 75 | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | BAW-4 | 0.005 | 0.0032 | 0.1 | No | 18 | 0.001595 | 77.78 | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | BAW-5 | 0.003899 | 0.001363 | 0.1 | No | 18 | 0.002084 | 33.33 | No | 0.01 | Param. |
| Molybdenum (mg/L) | BAW-7 | 0.005 | 0.0038 | 0.1 | No | 18 | 0.0002828 | 94.44 | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | BAW-3 | 0.005 | 0.00038 | 0.05 | No | 18 | 0.002271 | 61.11 | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | BAW-5 | 0.005 | 0.00033 | 0.05 | No | 18 | 0.001101 | 94.44 | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | BAW-7 | 0.005 | 0.00036 | 0.05 | No | 18 | 0.002039 | 72.22 | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | BAW-3 | 0.001 | 0.000276 | 0.002 | No | 18 | 0.000364 | 77.78 | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | BAW-7 | 0.001 | 0.000153 | 0.002 | No | 18 | 0.0001996 | 94.44 | No | 0.01 | NP (NDs) |

Parametric and Non-Parametric (NP) Confidence Interval

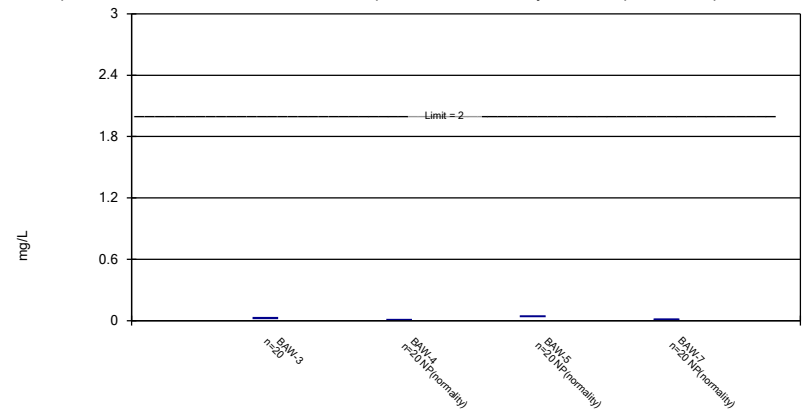
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Parametric and Non-Parametric (NP) Confidence Interval

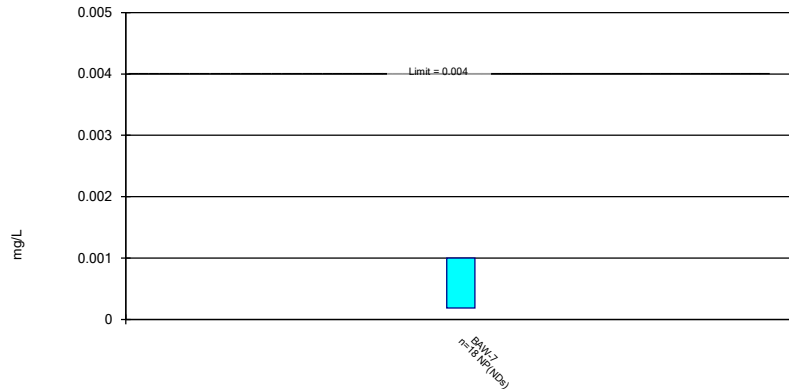
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Non-Parametric Confidence Interval

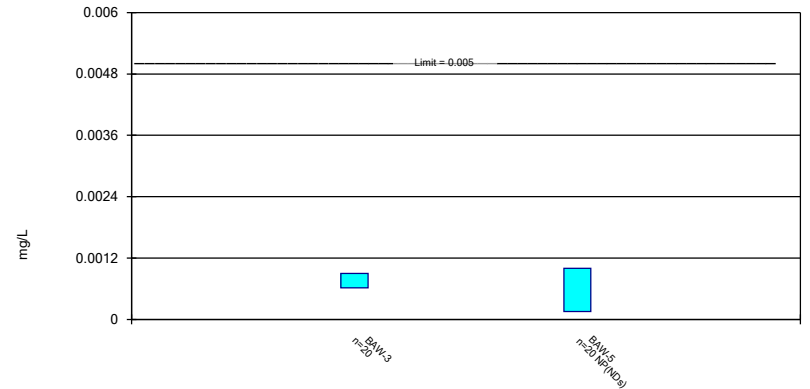
Compliance Limit is not exceeded. Per-well alpha = 0.01.



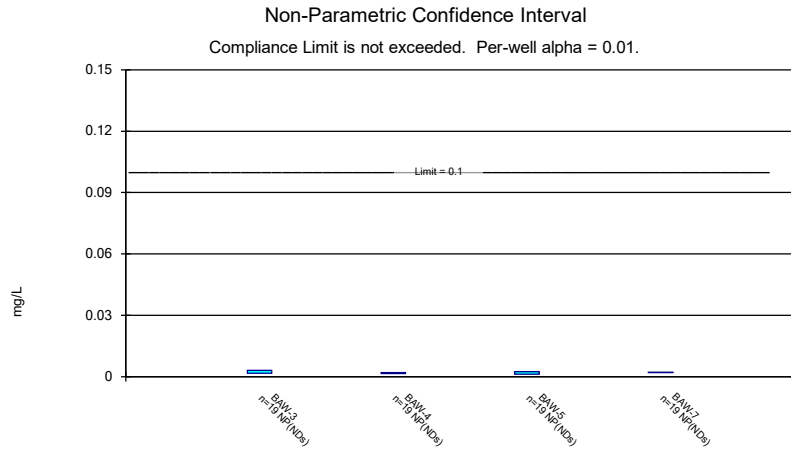
Constituent: Beryllium Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Parametric and Non-Parametric (NP) Confidence Interval

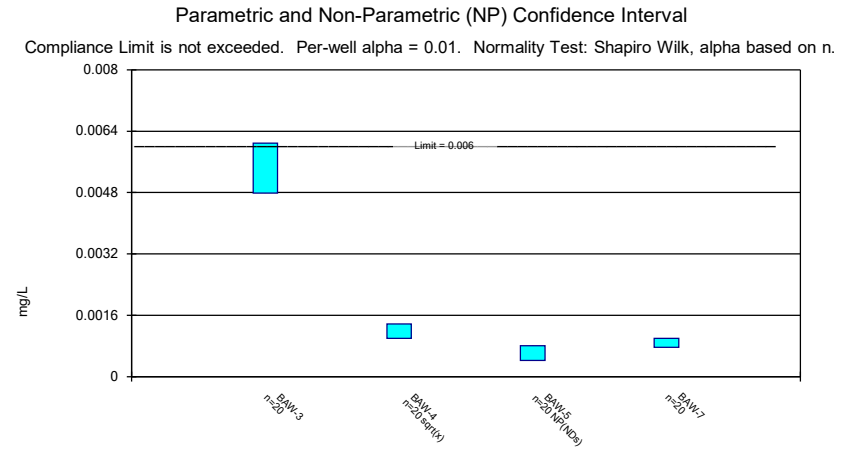
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



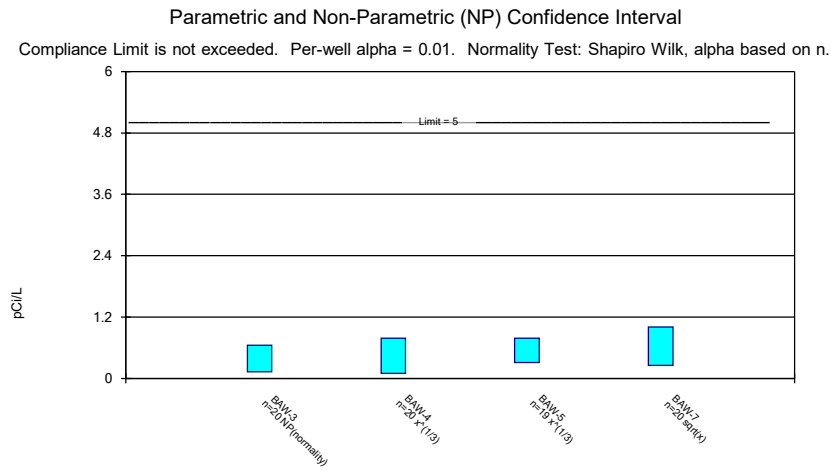
Constituent: Cadmium Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR



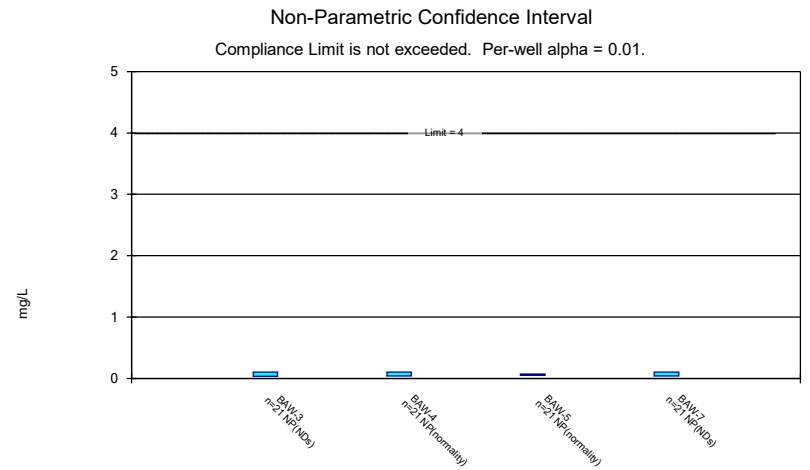
Constituent: Chromium Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR



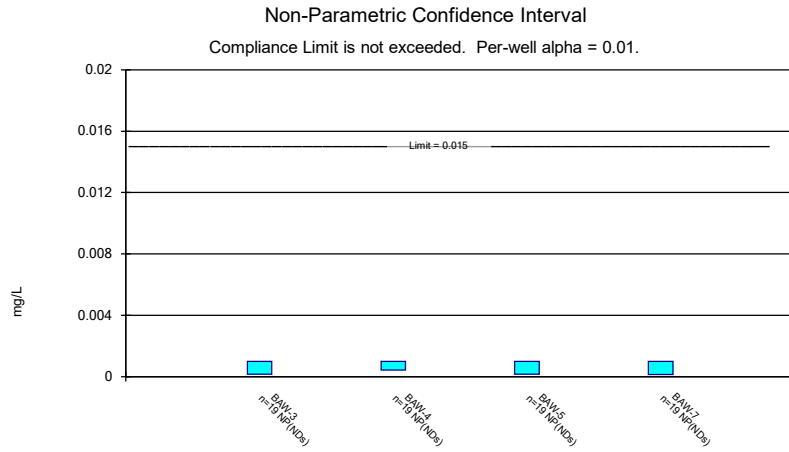
Constituent: Cobalt Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR



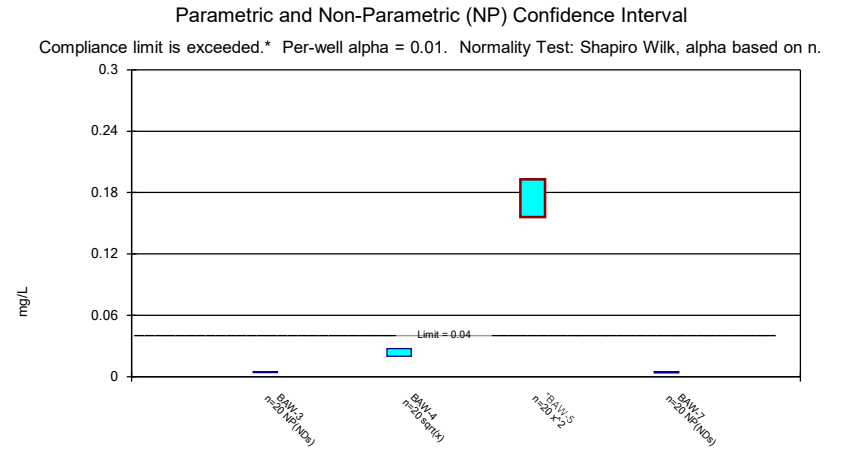
Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR



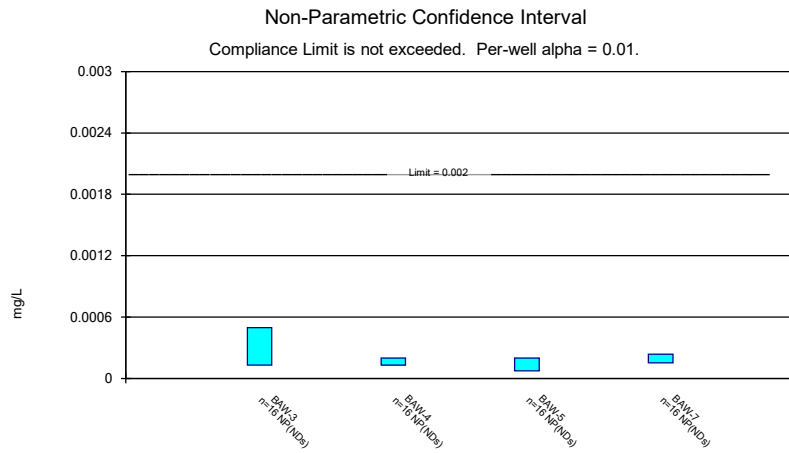
Constituent: Fluoride Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR



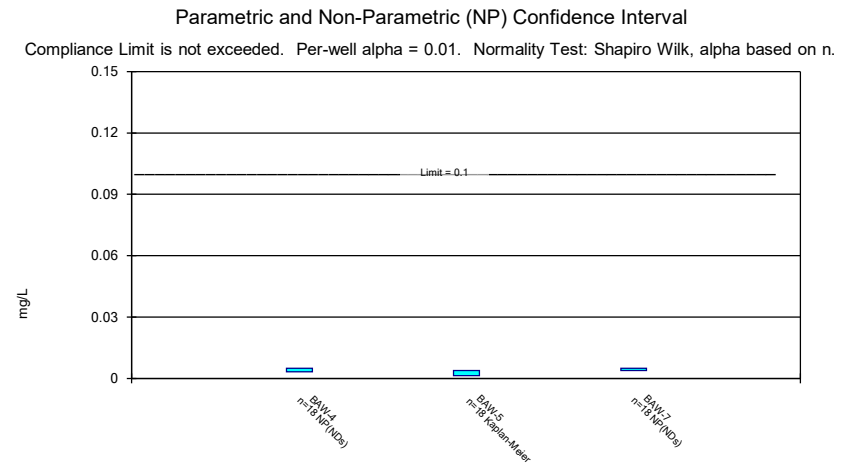
Constituent: Lead Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR



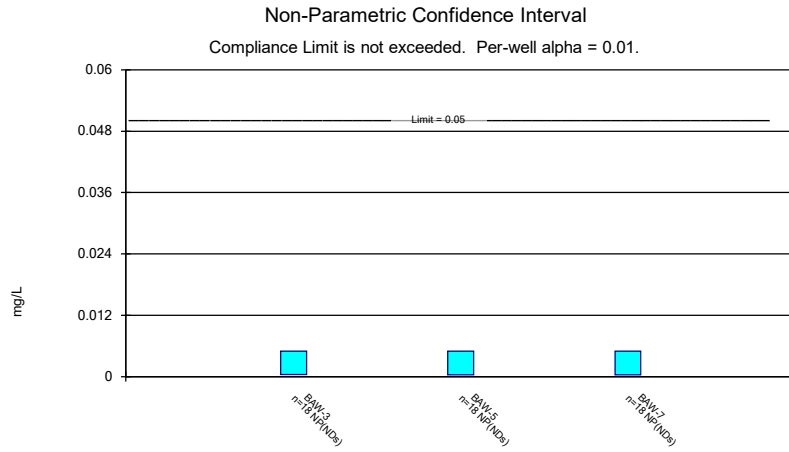
Constituent: Lithium Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR



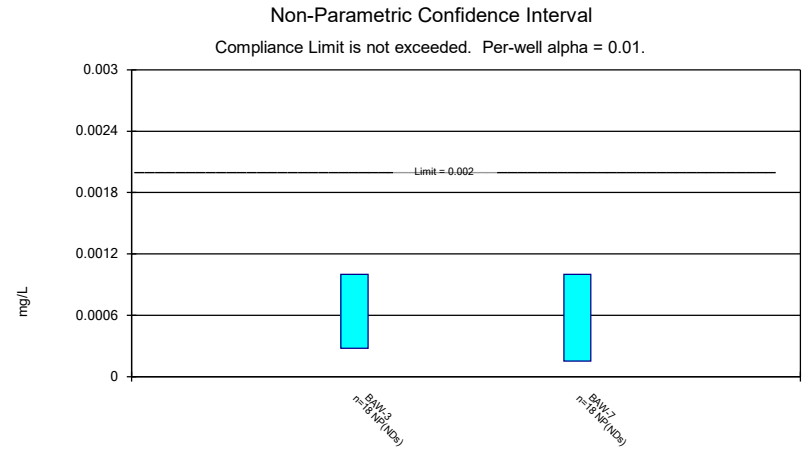
Constituent: Mercury Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR



Constituent: Molybdenum Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR



Constituent: Selenium Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR



Constituent: Thallium Analysis Run 5/2/2022 5:20 PM View: Appendix IV - Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-4 | BAW-5 | BAW-7 |
|------------|--------------|-------------|-------------|
| 3/23/2016 | 0.00087 (J) | 0.0033 | <0.001 |
| 5/17/2016 | <0.001 | 0.00089 (J) | <0.001 |
| 7/12/2016 | | | <0.001 |
| 7/13/2016 | 0.00081 (J) | 0.0039 | |
| 9/13/2016 | | 0.0039 | <0.001 |
| 9/14/2016 | 0.00069 (J) | | |
| 11/19/2016 | 0.0013 | 0.0037 | 0.0005 (J) |
| 1/17/2017 | | | <0.001 |
| 1/18/2017 | <0.001 | 0.0016 | |
| 3/22/2017 | | | 0.00052 (J) |
| 3/23/2017 | 0.00078 (J) | 0.0017 | |
| 5/24/2017 | 0.001 (J) | 0.0021 | <0.001 |
| 3/28/2018 | <0.001 | 0.0011 (J) | |
| 3/29/2018 | | | <0.001 |
| 6/2/2018 | 0.00068 (J) | 0.0017 | <0.001 |
| 11/8/2018 | <0.001 | | |
| 11/9/2018 | | 0.0021 | <0.001 |
| 2/11/2019 | 0.000737 (J) | 0.00232 | |
| 2/12/2019 | | | <0.001 |
| 4/17/2019 | 0.000645 (J) | 0.00218 | |
| 4/18/2019 | | | <0.001 |
| 9/27/2019 | | | <0.001 |
| 9/30/2019 | 0.000821 (J) | 0.00272 | |
| 2/21/2020 | | | <0.001 |
| 2/22/2020 | 0.000837 (J) | 0.00177 | |
| 4/14/2020 | 0.000896 (J) | 0.00177 | <0.001 |
| 10/30/2020 | 0.000529 (J) | 0.0013 | |
| 11/2/2020 | | | <0.001 |
| 3/17/2021 | 0.000454 (J) | 0.00385 | |
| 3/26/2021 | | | <0.001 |
| 10/5/2021 | 0.00259 | | <0.001 |
| 10/6/2021 | | 0.0125 | |
| 3/16/2022 | 0.00411 | 0.0101 | <0.001 |
| Mean | 0.001087 | 0.003225 | 0.000951 |
| Std. Dev. | 0.0008342 | 0.002944 | 0.0001509 |
| Upper Lim. | 0.001 | 0.003662 | 0.001 |
| Lower Lim. | 0.00069 | 0.001725 | 0.00052 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|----------|-------------|----------|----------|
| 3/23/2016 | 0.013 | 0.011 | 0.044 | 0.013 |
| 5/17/2016 | | 0.0085 | 0.055 | 0.012 |
| 5/18/2016 | 0.012 | | | |
| 7/12/2016 | | | | 0.011 |
| 7/13/2016 | 0.016 | 0.0073 | 0.041 | |
| 9/13/2016 | | | 0.046 | 0.012 |
| 9/14/2016 | 0.018 | 0.0095 | | |
| 11/19/2016 | 0.021 | 0.012 | 0.044 | 0.012 |
| 1/17/2017 | 0.029 | | | 0.014 |
| 1/18/2017 | | 0.0096 | 0.045 | |
| 3/22/2017 | | | | 0.012 |
| 3/23/2017 | 0.024 | 0.0093 | 0.038 | |
| 5/24/2017 | 0.022 | 0.0096 | 0.046 | 0.012 |
| 3/28/2018 | 0.026 | 0.0086 | 0.043 | |
| 3/29/2018 | | | | 0.011 |
| 6/2/2018 | 0.029 | 0.0087 | 0.043 | 0.011 |
| 11/8/2018 | 0.028 | 0.0091 | | |
| 11/9/2018 | | | 0.039 | 0.011 |
| 2/11/2019 | | 0.00931 | 0.0388 | |
| 2/12/2019 | 0.0274 | | | 0.0102 |
| 4/17/2019 | 0.0263 | 0.00888 | 0.0378 | |
| 4/18/2019 | | | | 0.0101 |
| 9/27/2019 | | | | 0.0121 |
| 9/30/2019 | 0.0343 | 0.0103 | 0.0424 | |
| 2/21/2020 | 0.0304 | | | 0.0117 |
| 2/22/2020 | | 0.0108 | 0.0453 | |
| 4/14/2020 | 0.0335 | 0.00949 (J) | 0.0452 | 0.0124 |
| 10/30/2020 | 0.0349 | 0.0116 | 0.0428 | |
| 11/2/2020 | | | | 0.0117 |
| 3/17/2021 | | 0.0224 | 0.0382 | |
| 3/26/2021 | 0.0253 | | | 0.0184 |
| 10/5/2021 | | 0.0283 | | 0.02 |
| 10/6/2021 | 0.03 | | 0.0493 | |
| 3/16/2022 | 0.037 | 0.0326 | 0.0688 | 0.0245 |
| Mean | 0.02586 | 0.01234 | 0.04463 | 0.01311 |
| Std. Dev. | 0.007104 | 0.006939 | 0.007047 | 0.003649 |
| Upper Lim. | 0.02989 | 0.0116 | 0.046 | 0.013 |
| Lower Lim. | 0.02182 | 0.00888 | 0.039 | 0.011 |

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-7 |
|------------|--------------|
| 3/23/2016 | <0.001 |
| 5/17/2016 | <0.001 |
| 7/12/2016 | <0.001 |
| 9/13/2016 | <0.001 |
| 11/19/2016 | <0.001 |
| 1/17/2017 | <0.001 |
| 3/22/2017 | <0.001 |
| 5/24/2017 | <0.001 |
| 3/29/2018 | <0.001 |
| 11/9/2018 | <0.001 |
| 2/12/2019 | <0.001 |
| 4/18/2019 | <0.001 |
| 2/21/2020 | <0.001 |
| 4/14/2020 | <0.001 |
| 11/2/2020 | <0.001 |
| 3/26/2021 | <0.001 |
| 10/5/2021 | 0.000185 (J) |
| 3/16/2022 | <0.001 |
| Mean | 0.0009547 |
| Std. Dev. | 0.0001921 |
| Upper Lim. | 0.001 |
| Lower Lim. | 0.000185 |

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-5 |
|------------|--------------|--------------|
| 3/23/2016 | 0.00041 (J) | <0.001 |
| 5/17/2016 | | <0.001 |
| 5/18/2016 | <0.001 | |
| 7/13/2016 | 0.00087 (J) | <0.001 |
| 9/13/2016 | | <0.001 |
| 9/14/2016 | 0.00078 (J) | |
| 11/19/2016 | 0.00054 (J) | <0.001 |
| 1/17/2017 | 0.00048 (J) | |
| 1/18/2017 | | <0.001 |
| 3/23/2017 | 0.00059 (J) | <0.001 |
| 5/24/2017 | 0.00081 (J) | <0.001 |
| 3/28/2018 | 0.0008 (J) | <0.001 |
| 6/2/2018 | 0.001 (J) | <0.001 |
| 11/8/2018 | 0.00085 (J) | |
| 11/9/2018 | | <0.001 |
| 2/11/2019 | | <0.001 |
| 2/12/2019 | 0.000877 (J) | |
| 4/17/2019 | 0.000915 (J) | <0.001 |
| 9/30/2019 | 0.00112 (J) | 0.000155 (J) |
| 2/21/2020 | 0.000962 (J) | |
| 2/22/2020 | | <0.001 |
| 4/14/2020 | 0.00107 (J) | <0.001 |
| 10/30/2020 | 0.00084 (J) | <0.001 |
| 3/17/2021 | | <0.001 |
| 3/26/2021 | 0.000615 (J) | |
| 10/6/2021 | 0.000338 (J) | <0.001 |
| 3/16/2022 | 0.000252 (J) | <0.001 |
| Mean | 0.000756 | 0.0009578 |
| Std. Dev. | 0.0002498 | 0.0001889 |
| Upper Lim. | 0.0008978 | 0.001 |
| Lower Lim. | 0.0006141 | 0.000155 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|-------------|------------|------------|-------------|
| 3/23/2016 | <0.002 | 0.0015 (J) | 0.0012 (J) | <0.002 |
| 5/17/2016 | | <0.002 | <0.002 | <0.002 |
| 5/18/2016 | <0.002 | | | |
| 7/12/2016 | | | | <0.002 |
| 7/13/2016 | 0.003 | 0.0015 (J) | 0.0024 (J) | |
| 9/13/2016 | | | <0.002 | <0.002 |
| 9/14/2016 | <0.002 | <0.002 | | |
| 11/19/2016 | <0.002 | 0.0011 (J) | <0.002 | <0.002 |
| 1/17/2017 | <0.002 | | | <0.002 |
| 1/18/2017 | | <0.002 | <0.002 | |
| 3/22/2017 | | | | <0.002 |
| 3/23/2017 | <0.002 | <0.002 | <0.002 | |
| 5/24/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 3/28/2018 | <0.002 | <0.002 | 0.005 | |
| 3/29/2018 | | | | <0.002 |
| 6/2/2018 | <0.002 | <0.002 | <0.002 | <0.002 |
| 11/8/2018 | <0.002 | <0.002 | | |
| 11/9/2018 | | | <0.002 | <0.002 |
| 2/11/2019 | | <0.002 | <0.002 | |
| 2/12/2019 | 0.00165 (J) | | | <0.002 |
| 4/17/2019 | <0.002 | <0.002 | <0.002 | |
| 4/18/2019 | | | | <0.002 |
| 9/27/2019 | | | | 0.00206 (J) |
| 9/30/2019 | <0.002 | <0.002 | <0.002 | |
| 2/21/2020 | <0.002 | | | <0.002 |
| 2/22/2020 | | <0.002 | <0.002 | |
| 10/30/2020 | <0.002 | <0.002 | <0.002 | |
| 11/2/2020 | | | | <0.002 |
| 3/17/2021 | | <0.002 | <0.002 | |
| 3/26/2021 | <0.002 | | | <0.002 |
| 10/5/2021 | | <0.002 | | <0.002 |
| 10/6/2021 | <0.002 | | <0.002 | |
| 3/16/2022 | <0.002 | <0.002 | <0.002 | <0.002 |
| Mean | 0.002034 | 0.0019 | 0.002137 | 0.002003 |
| Std. Dev. | 0.0002472 | 0.0002494 | 0.0007243 | 1.376E-05 |
| Upper Lim. | 0.003 | 0.002 | 0.0024 | 0.00206 |
| Lower Lim. | 0.00165 | 0.0015 | 0.0012 | 0.002 |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|----------|--------------|-------------|--------------|
| 3/23/2016 | 0.0055 | 0.00094 (J) | <0.0005 | 0.0011 (J) |
| 5/17/2016 | | 0.0007 (J) | <0.0005 | 0.001 (J) |
| 5/18/2016 | 0.0059 | | | |
| 7/12/2016 | | | | 0.00091 (J) |
| 7/13/2016 | 0.0048 | 0.0016 (J) | 0.00042 (J) | |
| 9/13/2016 | | | <0.0005 | 0.001 (J) |
| 9/14/2016 | 0.0063 | 0.0011 (J) | | |
| 11/19/2016 | 0.0056 | 0.0012 (J) | <0.0005 | 0.00083 (J) |
| 1/17/2017 | 0.0046 | | | 0.00091 (J) |
| 1/18/2017 | | 0.0011 (J) | <0.0005 | |
| 3/22/2017 | | | | 0.00098 (J) |
| 3/23/2017 | 0.0049 | 0.0011 (J) | <0.0005 | |
| 5/24/2017 | 0.0052 | 0.0012 (J) | <0.0005 | 0.00098 (J) |
| 3/28/2018 | 0.0063 | 0.00095 (J) | <0.0005 | |
| 3/29/2018 | | | | 0.00063 (J) |
| 6/2/2018 | 0.0068 | 0.0012 (J) | <0.0005 | 0.00087 (J) |
| 11/8/2018 | 0.0068 | 0.0011 (J) | | |
| 11/9/2018 | | | <0.0005 | 0.00076 (J) |
| 2/11/2019 | | 0.00093 (J) | <0.0005 | |
| 2/12/2019 | 0.00552 | | | 0.000661 (J) |
| 4/17/2019 | 0.00603 | 0.00116 (J) | <0.0005 | |
| 4/18/2019 | | | | 0.000705 (J) |
| 9/27/2019 | | | | 0.00071 (J) |
| 9/30/2019 | 0.0062 | 0.001 (J) | <0.0005 | |
| 2/21/2020 | 0.00576 | | | 0.000634 (J) |
| 2/22/2020 | | 0.000907 (J) | <0.0005 | |
| 4/14/2020 | 0.00633 | 0.00105 (J) | <0.0005 | 0.000684 (J) |
| 10/30/2020 | 0.00657 | 0.00102 (J) | <0.0005 | |
| 11/2/2020 | | | | 0.000729 (J) |
| 3/17/2021 | | 0.00208 | <0.0005 | |
| 3/26/2021 | 0.00339 | | | 0.000995 |
| 10/5/2021 | | 0.00187 | | 0.00112 |
| 10/6/2021 | 0.00336 | | 0.000802 | |
| 3/16/2022 | 0.00289 | 0.00182 | 0.000967 | 0.00141 |
| Mean | 0.005438 | 0.001201 | 0.0005345 | 0.0008809 |
| Std. Dev. | 0.001148 | 0.0003586 | 0.000124 | 0.0001999 |
| Upper Lim. | 0.006089 | 0.001376 | 0.000802 | 0.0009944 |
| Lower Lim. | 0.004786 | 0.0009965 | 0.00042 | 0.0007674 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|-------------|-------------|------------|-------------|
| 3/23/2016 | <5 | <5 | 0.549 | <5 |
| 5/17/2016 | | <5 | 0.551 | <5 |
| 5/18/2016 | <5 | | | |
| 7/12/2016 | | | | 0.165 (U) |
| 7/13/2016 | 0.27 (U) | 0.0365 (U) | 0.859 | |
| 9/13/2016 | | | 0.367 (U) | 0.341 (U) |
| 9/14/2016 | -0.0909 (U) | 0.3 (U) | | |
| 11/19/2016 | 0.416 | <5 (U) | <5 (U) | <5 (U) |
| 1/17/2017 | 0.412 (U) | | | 0.124 (U) |
| 1/18/2017 | | 0.235 (U) | 0.289 (U) | |
| 3/22/2017 | | | | 0.0719 (U) |
| 3/23/2017 | 0.0761 (U) | 0.168 (U) | 0.554 | |
| 5/24/2017 | 0.0415 (U) | -0.0607 (U) | 0.831 | 0.441 |
| 3/28/2018 | 0.398 | 0.42 | 0.458 | |
| 3/29/2018 | | | | 0.731 |
| 6/2/2018 | -0.253 (U) | 0.0844 (U) | 0.226 (U) | 0.303 (U) |
| 11/8/2018 | 0.343 (U) | 0.367 (U) | | |
| 11/9/2018 | | | 0.298 (U) | 0.00226 (U) |
| 2/11/2019 | | 0.0402 (U) | 0.15 (U) | |
| 2/12/2019 | 0.581 | | | 0.094 (U) |
| 4/17/2019 | 0.646 | 0.493 | 0.326 (U) | |
| 4/18/2019 | | | | 0.48 |
| 9/27/2019 | | | | 0.497 |
| 9/30/2019 | 1 | 0.404 | | |
| 2/21/2020 | 0.126 (U) | | | 0.375 |
| 2/22/2020 | | 0.53 | 0.47 | |
| 4/14/2020 | 0.338 | 0.0408 (U) | 0.376 (U) | 0.329 (U) |
| 10/30/2020 | 0.485 | 0.344 | 0.528 | |
| 11/2/2020 | | | | 0.535 |
| 3/17/2021 | | 0.312 (U) | 0.0889 (U) | |
| 3/26/2021 | 0.78 | | | 0.813 |
| 10/5/2021 | | 1.06 | | 0.814 |
| 10/6/2021 | 0.503 | | 0.931 | |
| 3/16/2022 | 0.286 (U) | 0.314 (U) | 1.39 | 1.39 |
| Mean | 0.5679 | 0.6294 | 0.618 | 0.7503 |
| Std. Dev. | 0.7213 | 0.8414 | 0.5517 | 0.8193 |
| Upper Lim. | 0.646 | 0.7846 | 0.7838 | 1.005 |
| Lower Lim. | 0.126 | 0.09941 | 0.3114 | 0.2552 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|------------|------------|
| 3/23/2016 | <0.1 | 0.04 (J) | 0.06 (J) | <0.1 |
| 5/17/2016 | | 0.04 (J) | 0.07 (J) | <0.1 |
| 5/18/2016 | <0.1 | | | |
| 7/12/2016 | | | | <0.1 |
| 7/13/2016 | <0.1 | 0.05 (J) | 0.08 (J) | |
| 9/13/2016 | | | 0.06 (J) | <0.1 |
| 9/14/2016 | <0.1 | 0.04 (J) | | |
| 11/19/2016 | <0.1 | 0.04 (J) | 0.06 (J) | <0.1 |
| 1/17/2017 | <0.1 | | | <0.1 |
| 1/18/2017 | | <0.1 | 0.05 (J) | |
| 3/22/2017 | | | | <0.1 |
| 3/23/2017 | <0.1 | <0.1 | 0.05 (J) | |
| 5/24/2017 | <0.1 | 0.04 (J) | 0.06 (J) | <0.1 (D) |
| 10/16/2017 | <0.1 | <0.1 | 0.06 (J) | <0.1 |
| 3/28/2018 | <0.1 | 0.04 (J) | 0.06 (J) | |
| 3/29/2018 | | | | <0.1 |
| 6/2/2018 | <0.1 | 0.05 (J) | 0.06 (J) | <0.1 |
| 11/8/2018 | <0.1 | 0.05 (J) | | |
| 11/9/2018 | | | 0.06 (J) | <0.1 |
| 2/11/2019 | | <0.1 | 0.0368 (J) | |
| 2/12/2019 | <0.1 | | | <0.1 |
| 4/17/2019 | <0.1 | 0.033 (J) | 0.0421 (J) | |
| 4/18/2019 | | | | <0.1 |
| 9/27/2019 | | | | <0.1 |
| 9/30/2019 | <0.1 | <0.1 | 0.045 (J) | |
| 2/21/2020 | <0.1 | | | <0.1 |
| 2/22/2020 | | 0.0317 (J) | 0.0434 (J) | |
| 4/14/2020 | 0.034 (J) | 0.0508 (J) | 0.059 (J) | 0.0415 (J) |
| 10/30/2020 | <0.1 | <0.1 | <0.1 | |
| 11/2/2020 | | | | <0.1 |
| 3/17/2021 | | 0.0544 (J) | 0.0575 (J) | |
| 3/26/2021 | <0.1 | | | <0.1 |
| 10/5/2021 | | 0.0505 (J) | | <0.1 |
| 10/6/2021 | <0.1 | | 0.0725 (J) | |
| 3/16/2022 | 0.0307 (J) | 0.0462 (J) | 0.176 | 0.0266 (J) |
| Mean | 0.09356 | 0.05984 | 0.06487 | 0.09372 |
| Std. Dev. | 0.02036 | 0.02667 | 0.02897 | 0.01998 |
| Upper Lim. | 0.1 | 0.1 | 0.07 | 0.1 |
| Lower Lim. | 0.034 | 0.04 | 0.05 | 0.0415 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|--------------|--------------|--------------|--------------|
| 3/23/2016 | <0.001 | 0.00039 (J) | <0.001 | <0.001 |
| 5/17/2016 | | <0.001 | <0.001 | <0.001 |
| 5/18/2016 | <0.001 | | | |
| 7/12/2016 | | | | <0.001 |
| 7/13/2016 | <0.001 | <0.001 | <0.001 | |
| 9/13/2016 | | | <0.001 | <0.001 |
| 9/14/2016 | 0.00056 (J) | <0.001 | | |
| 11/19/2016 | <0.001 | 0.00042 (J) | <0.001 | <0.001 |
| 1/17/2017 | <0.001 | | | <0.001 |
| 1/18/2017 | | <0.001 | <0.001 | |
| 3/22/2017 | | | | <0.001 |
| 3/23/2017 | 0.00038 (J) | <0.001 | <0.001 | |
| 5/24/2017 | 0.00036 (J) | <0.001 | <0.001 | <0.001 |
| 3/28/2018 | <0.001 | <0.001 | <0.001 | |
| 3/29/2018 | | | | <0.001 |
| 11/8/2018 | <0.001 | <0.001 | | |
| 11/9/2018 | | | <0.001 | <0.001 |
| 2/11/2019 | | <0.001 | <0.001 | |
| 2/12/2019 | 0.000139 (J) | | | <0.001 |
| 4/17/2019 | <0.001 | <0.001 | <0.001 | |
| 4/18/2019 | | | | <0.001 |
| 9/27/2019 | | | | 0.000129 (J) |
| 9/30/2019 | 0.000322 (J) | 0.000191 (J) | 0.000152 (J) | |
| 2/21/2020 | 0.00015 (J) | | | <0.001 |
| 2/22/2020 | | <0.001 | <0.001 | |
| 4/14/2020 | 0.000236 (J) | <0.001 | <0.001 | <0.001 |
| 10/30/2020 | 0.000136 (J) | <0.001 | <0.001 | |
| 11/2/2020 | | | | <0.001 |
| 3/17/2021 | | 0.000153 (J) | <0.001 | |
| 3/26/2021 | 0.000145 (J) | | | <0.001 |
| 10/5/2021 | | <0.001 | | <0.001 |
| 10/6/2021 | <0.001 | | <0.001 | |
| 3/16/2022 | <0.001 | <0.001 | <0.001 | <0.001 |
| Mean | 0.0006541 | 0.0008502 | 0.0009554 | 0.0009542 |
| Std. Dev. | 0.0003872 | 0.0003031 | 0.0001945 | 0.0001998 |
| Upper Lim. | 0.001 | 0.001 | 0.001 | 0.001 |
| Lower Lim. | 0.00015 | 0.00042 | 0.000152 | 0.000129 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|-------------|----------|---------|-------------|
| 3/23/2016 | <0.005 | 0.044 | 0.17 | <0.005 |
| 5/17/2016 | | 0.028 | 0.2 | <0.005 |
| 5/18/2016 | <0.005 | | | |
| 7/12/2016 | | | | <0.005 |
| 7/13/2016 | <0.005 | 0.026 | 0.17 | |
| 9/13/2016 | | | 0.17 | <0.005 |
| 9/14/2016 | <0.005 | 0.026 | | |
| 11/19/2016 | <0.005 | 0.026 | 0.18 | 0.0035 (J) |
| 1/17/2017 | <0.005 | | | <0.005 |
| 1/18/2017 | | 0.027 | 0.2 | |
| 3/22/2017 | | | | <0.005 |
| 3/23/2017 | <0.005 | 0.024 | 0.19 | |
| 5/24/2017 | <0.005 | 0.027 | 0.21 | <0.005 |
| 3/28/2018 | 0.0023 (J) | 0.021 | 0.23 | |
| 3/29/2018 | | | | 0.0026 (J) |
| 6/2/2018 | 0.002 (J) | 0.022 | 0.19 | 0.0029 (J) |
| 11/8/2018 | 0.0024 (J) | 0.025 | | |
| 11/9/2018 | | | 0.18 | 0.0027 (J) |
| 2/11/2019 | | 0.0229 | 0.161 | |
| 2/12/2019 | <0.005 | | | <0.005 |
| 4/17/2019 | 0.00197 (J) | 0.0236 | 0.174 | |
| 4/18/2019 | | | | 0.00238 (J) |
| 9/27/2019 | | | | 0.00375 (J) |
| 9/30/2019 | 0.00687 | 0.0249 | 0.166 | |
| 2/21/2020 | <0.005 | | | <0.005 |
| 2/22/2020 | | 0.0211 | 0.169 | |
| 4/14/2020 | <0.005 | 0.0224 | 0.192 | <0.005 |
| 10/30/2020 | <0.005 | 0.0267 | 0.194 | |
| 11/2/2020 | | | | <0.005 |
| 3/17/2021 | | 0.0174 | 0.12 | |
| 3/26/2021 | <0.005 | | | <0.005 |
| 10/5/2021 | | 0.0127 | | 0.0045 (J) |
| 10/6/2021 | <0.005 | | 0.0994 | |
| 3/16/2022 | 0.0038 (J) | 0.0112 | 0.0629 | 0.00437 (J) |
| Mean | 0.004467 | 0.02395 | 0.1714 | 0.004335 |
| Std. Dev. | 0.001287 | 0.006551 | 0.03845 | 0.0009717 |
| Upper Lim. | 0.005 | 0.02735 | 0.193 | 0.005 |
| Lower Lim. | 0.0038 | 0.01998 | 0.156 | 0.0035 |

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|--------------|--------------|--------------|--------------|
| 3/23/2016 | 8.4E-05 (JB) | 7.3E-05 (JB) | 7.4E-05 (JB) | 7.1E-05 (JB) |
| 5/17/2016 | | <0.0002 | <0.0002 | <0.0002 |
| 5/18/2016 | <0.0002 | | | |
| 7/12/2016 | | | | <0.0002 |
| 7/13/2016 | <0.0002 | <0.0002 | <0.0002 | |
| 9/13/2016 | | | <0.0002 | <0.0002 |
| 9/14/2016 | <0.0002 | <0.0002 | | |
| 11/19/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 1/17/2017 | <0.0002 | | | <0.0002 |
| 1/18/2017 | | <0.0002 | <0.0002 | |
| 3/22/2017 | | | | <0.0002 |
| 3/23/2017 | 0.00013 (J) | 0.00013 (J) | <0.0002 | |
| 5/24/2017 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 3/28/2018 | <0.0002 | <0.0002 | <0.0002 | |
| 3/29/2018 | | | | <0.0002 |
| 2/11/2019 | | <0.0002 | <0.0002 | |
| 2/12/2019 | <0.0002 | | | <0.0002 |
| 4/17/2019 | <0.0002 | <0.0002 | <0.0002 | |
| 4/18/2019 | | | | <0.0002 |
| 2/21/2020 | <0.0002 | | | <0.0002 |
| 2/22/2020 | | <0.0002 | <0.0002 | |
| 10/30/2020 | 0.000497 | <0.0002 | <0.0002 | |
| 11/2/2020 | | | | <0.0002 |
| 3/17/2021 | | <0.0002 | <0.0002 | |
| 3/26/2021 | <0.0002 | | | 0.000235 |
| 10/5/2021 | | <0.0002 | | 0.000151 (J) |
| 10/6/2021 | <0.0002 | | <0.0002 | |
| 3/16/2022 | <0.0002 | <0.0002 | <0.0002 | 0.0012 |
| Mean | 0.0002069 | 0.0001877 | 0.0001921 | 0.0002536 |
| Std. Dev. | 8.398E-05 | 3.522E-05 | 3.15E-05 | 0.0002549 |
| Upper Lim. | 0.000497 | 0.0002 | 0.0002 | 0.000235 |
| Lower Lim. | 0.00013 | 0.00013 | 7.4E-05 | 0.000151 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-4 | BAW-5 | BAW-7 |
|------------|--------------|--------------|------------|
| 3/23/2016 | <0.005 | 0.0026 (J) | <0.005 |
| 5/17/2016 | <0.005 | 0.0011 (J) | <0.005 |
| 7/12/2016 | | | <0.005 |
| 7/13/2016 | <0.005 | 0.0079 (J) | |
| 9/13/2016 | | 0.0038 (J) | <0.005 |
| 9/14/2016 | <0.005 | | |
| 11/19/2016 | <0.005 | 0.0014 (J) | <0.005 |
| 1/17/2017 | | | <0.005 |
| 1/18/2017 | <0.005 | 0.001 (J) | |
| 3/22/2017 | | | 0.0038 (J) |
| 3/23/2017 | <0.005 | <0.005 | |
| 5/24/2017 | <0.005 | 0.0014 (J) | <0.005 |
| 3/28/2018 | <0.005 | <0.005 | |
| 3/29/2018 | | | <0.005 |
| 11/8/2018 | <0.005 | | |
| 11/9/2018 | | <0.005 | <0.005 |
| 2/11/2019 | <0.005 | <0.005 | |
| 2/12/2019 | | | <0.005 |
| 4/17/2019 | <0.005 | <0.005 | |
| 4/18/2019 | | | <0.005 |
| 2/21/2020 | | | <0.005 |
| 2/22/2020 | 0.000616 (J) | 0.000627 (J) | |
| 4/14/2020 | <0.005 | 0.000747 (J) | <0.005 |
| 10/30/2020 | <0.005 | <0.005 | |
| 11/2/2020 | | | <0.005 |
| 3/17/2021 | 0.0032 (J) | 0.00328 (J) | |
| 3/26/2021 | | | <0.005 |
| 10/5/2021 | 0.00109 (J) | | <0.005 |
| 10/6/2021 | | 0.00364 (J) | |
| 3/16/2022 | 0.000916 (J) | 0.00533 | <0.005 |
| Mean | 0.004212 | 0.00349 | 0.004933 |
| Std. Dev. | 0.001595 | 0.002084 | 0.0002828 |
| Upper Lim. | 0.005 | 0.003899 | 0.005 |
| Lower Lim. | 0.0032 | 0.001363 | 0.0038 |

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-5 | BAW-7 |
|------------|-------------|-------------|-------------|
| 3/23/2016 | 0.00033 (J) | <0.005 | <0.005 |
| 5/17/2016 | | <0.005 | 0.00026 (J) |
| 5/18/2016 | <0.005 | | |
| 7/12/2016 | | | <0.005 |
| 7/13/2016 | 0.00041 (J) | <0.005 | |
| 9/13/2016 | | <0.005 | 0.00031 (J) |
| 9/14/2016 | 0.00079 (J) | | |
| 11/19/2016 | <0.005 | <0.005 | <0.005 |
| 1/17/2017 | <0.005 | | <0.005 |
| 1/18/2017 | | <0.005 | |
| 3/22/2017 | | | 0.0021 |
| 3/23/2017 | <0.005 | <0.005 | |
| 5/24/2017 | 0.00028 (J) | 0.00033 (J) | 0.00026 (J) |
| 3/28/2018 | 0.00038 (J) | <0.005 | |
| 3/29/2018 | | | 0.00036 (J) |
| 6/2/2018 | 0.00031 (J) | <0.005 | <0.005 |
| 11/8/2018 | 0.00088 (J) | | |
| 11/9/2018 | | <0.005 | <0.005 |
| 2/11/2019 | | <0.005 | |
| 2/12/2019 | <0.005 | | <0.005 |
| 4/17/2019 | <0.005 | <0.005 | |
| 4/18/2019 | | | <0.005 |
| 2/21/2020 | <0.005 | | <0.005 |
| 2/22/2020 | | <0.005 | |
| 10/30/2020 | <0.005 | <0.005 | |
| 11/2/2020 | | | <0.005 |
| 3/17/2021 | | <0.005 | |
| 3/26/2021 | <0.005 | | <0.005 |
| 10/5/2021 | | | <0.005 |
| 10/6/2021 | <0.005 | <0.005 | |
| 3/16/2022 | <0.005 | <0.005 | <0.005 |
| Mean | 0.003243 | 0.004741 | 0.003794 |
| Std. Dev. | 0.002271 | 0.001101 | 0.002039 |
| Upper Lim. | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.00038 | 0.00033 | 0.00036 |

Confidence Interval

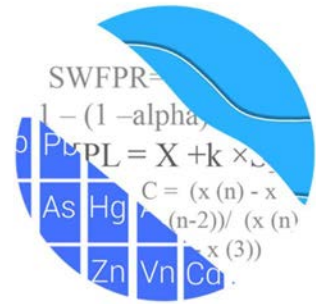
Constituent: Thallium (mg/L) Analysis Run 5/2/2022 5:21 PM View: Appendix IV - Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-7 |
|------------|--------------|--------------|
| 3/23/2016 | <0.001 | <0.001 |
| 5/17/2016 | | <0.001 |
| 5/18/2016 | <0.001 | |
| 7/12/2016 | | <0.001 |
| 7/13/2016 | <0.001 | |
| 9/13/2016 | | <0.001 |
| 9/14/2016 | 9.5E-05 (J) | |
| 11/19/2016 | <0.001 | <0.001 |
| 1/17/2017 | <0.001 | <0.001 |
| 3/22/2017 | | <0.001 |
| 3/23/2017 | <0.001 | |
| 5/24/2017 | <0.001 | <0.001 |
| 3/28/2018 | <0.001 | |
| 3/29/2018 | | <0.001 |
| 11/8/2018 | 8.5E-05 (J) | |
| 11/9/2018 | | <0.001 |
| 2/12/2019 | <0.001 | <0.001 |
| 4/17/2019 | <0.001 | |
| 4/18/2019 | | <0.001 |
| 2/21/2020 | 0.000276 (J) | <0.001 |
| 4/14/2020 | 0.000158 (J) | <0.001 |
| 10/30/2020 | <0.001 | |
| 11/2/2020 | | <0.001 |
| 3/26/2021 | <0.001 | <0.001 |
| 10/5/2021 | | 0.000153 (J) |
| 10/6/2021 | <0.001 | |
| 3/16/2022 | <0.001 | <0.001 |
| Mean | 0.0008119 | 0.0009529 |
| Std. Dev. | 0.000364 | 0.0001996 |
| Upper Lim. | 0.001 | 0.001 |
| Lower Lim. | 0.000276 | 0.000153 |

2nd
Semi-Annual
Monitoring Event

GROUNDWATER STATS CONSULTING



December 8, 2022

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Daniel Bottom Ash Pond
2022 Annual Statistical Analysis – October 2022 Sample Event

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the October 2022 Groundwater Detection and Assessment Monitoring report for Mississippi Power Company's Plant Daniel Bottom Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at Daniel Bottom Ash Pond for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** BAW-1 and BAW-2A
- **Downgradient wells:** BAW-3, BAW-4, BAW-5, and BAW-7

Upgradient well BAW-2 was last sampled in October 2017 and has since been abandoned; however, data for this well are included to represent historical naturally occurring groundwater quality upgradient of the ash pond. Replacement upgradient well BAW-2A was first sampled in March 2018 and has since been sampled to supplement existing upgradient data for BAW-2. However, this well was dry during the October 2022 sample event.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting.

The CCR program monitors the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- **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

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of Appendix IV downgradient well/constituent pairs containing 100% non-detects follow this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data. This generally gives the most conservative limit in each case.

Time series plots for Appendix III and IV parameters are provided for all wells and are used to evaluate concentrations over time (Figure A). Additionally, box plots are included for all constituents at upgradient and downgradient wells (Figure B). Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graph. A summary of these values follows this letter (Figure C). 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.

During the previous screening, data at all wells were evaluated 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. Power curves were provided with the screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance recommendations as discussed below.

Summary of Statistical Methods

Based on the evaluation for federal regulatory requirements, the following methods were selected for Appendix III constituents:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric prediction limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric prediction limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as "<" the original reporting limit.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. In some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality.

Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening Conducted in October 2017

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. No suspected outliers were observed in any of the proposed background data at upgradient wells. When any values are identified as outliers, they are plotted in a lighter font on the time series graph.

Seasonality

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

Trend Test Evaluation

While trends may be visual, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed a couple statistically significant decreasing and increasing trends. All trends noted were relatively low in magnitude when compared to average concentrations, therefore, no adjustments were made to any of the data sets.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA showed no variation for calcium, chloride, pH, sulfate, and TDS, making these parameters eligible for interwell methods. Boron and fluoride contained 100% non-detects and, therefore, could not be tested with the ANOVA. These parameters are also eligible for interwell methods since no variation is present. A summary table of the ANOVA results was included with the October 2017 screening.

Background Update – Appendix III Parameters – November 2019

Outlier Analysis

Prior to updating background data, samples were re-evaluated for outliers at upgradient wells for all constituents. An updated summary of Tukey's test results and flagged outliers was included with the 2019 Background Update report.

Trend Test Evaluation

The Sen's Slope/Mann-Kendall trend test was used to determine whether concentrations are statistically increasing, decreasing or stable at upgradient wells. No statistically significant increasing or decreasing trends were noted with the exception of decreasing trends for calcium and pH in well BAW-2, which has since been abandoned. The magnitude of these trends, however, was low relative to the average concentrations in these wells. Therefore, no adjustments were required at that time; and these results were included in the 2019 Background Update report.

Statistical Analysis of Appendix III Parameters – October 2022

Prior to constructing interwell prediction limits, data through the October 2022 sample event at upgradient wells were re-evaluated for outliers using visual screening. No new outliers were suspected or flagged during this analysis. Tukey's outlier test had previously identified an outlier for calcium at well BAW-2 during the November 2019 statistical analysis; therefore, this value remains flagged. A summary of flagged data follows this report (Figure C). Additionally, any flagged values are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages.

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample strategy, were established for each of the Appendix III parameters using pooled historical upgradient well data through October 2022 (Figure D). The reported measurements at downgradient wells for the October 2022 sample event were compared to the interwell prediction limits to determine whether initial exceedances are present.

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 the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary. Complete graphical results of the prediction limits may be found following this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: BAW-5 and BAW-7
- Calcium: BAW-4, BAW-5, and BAW-7
- pH: BAW-3, BAW-4, and BAW-5
- Sulfate: BAW-3, BAW-5, and BAW-7
- TDS: BAW-5 and BAW-7

Trend Test Evaluation

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable

(Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. The existence of similar trends in both upgradient and downgradient wells is an indication of natural variability in groundwater that is unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- None

Decreasing:

- Calcium: BAW-2 (upgradient)
- pH: BAW-2 (upgradient), BAW-3, and BAW-5
- Sulfate: BAW-1 (upgradient)

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits) or site-specific limits that are based on upgradient groundwater quality. Site-specific background limits are determined using upper tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. The methods are described below.

Evaluation of Appendix IV Parameters – October 2022

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged during this analysis. Tukey's outlier test had previously identified an outlier for lithium at upgradient well BAW-1 during the November 2019 statistical analysis, and this value remains flagged. A summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Parametric upper tolerance limits were used to calculate background limits from pooled upgradient well data through October 2022 for Appendix IV parameters with a target of

95% confidence and 95% coverage to determine background limits (Figure F). The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The interwell upper tolerance limits were compared to the Maximum Contaminant Levels (MCLs), CCR Rule-Specified levels, and background limits in the Groundwater Protection Standard (GWPS) table following this letter to determine the highest limit for use as the GWPS in the Confidence Interval comparisons (Figure G).

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using all data through October 2022 for each of the Appendix IV parameters and compared to the GWPS, i.e., the highest limit of the MCL, CCR Rule-Specified level, or background limit as discussed above (Figure H). Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. Complete graphical results of the confidence interval follow this letter. An exceedance was identified for the following well/constituent pair:

- Lithium: BAW-5

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

For Groundwater Stats Consulting,



Kristina Rayner
Senior Statistician



Andrew T. Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient

Analysis Run 11/2/2022 9:39 AM View: Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Antimony (mg/L)
BAW-3, BAW-4, BAW-5, BAW-7

Arsenic (mg/L)
BAW-3

Beryllium (mg/L)
BAW-3, BAW-4, BAW-5

Cadmium (mg/L)
BAW-4, BAW-7

Molybdenum (mg/L)
BAW-3

Selenium (mg/L)
BAW-4

Thallium (mg/L)
BAW-4, BAW-5

Interwell Prediction Limit - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/2/2022, 11:00 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg | NBg | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------------|-------|------------|------------|-----------|---------|------|----|--------|---------|-----------|-------|---------|-----------|-----------------------------|-----------------------|
| Boron (mg/L) | BAW-5 | 0.0928 | n/a | 10/6/2022 | 0.631 | Yes | 43 | n/a | n/a | n/a | 88.37 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-7 | 0.0928 | n/a | 10/6/2022 | 1.82 | Yes | 43 | n/a | n/a | n/a | 88.37 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | BAW-4 | 1.697 | n/a | 10/5/2022 | 5.81 | Yes | 42 | 0.9557 | 0.1301 | 4.762 | None | x^(1/3) | 0.00188 | Param Inter 1 of 2 | |
| Calcium (mg/L) | BAW-5 | 1.697 | n/a | 10/6/2022 | 28.2 | Yes | 42 | 0.9557 | 0.1301 | 4.762 | None | x^(1/3) | 0.00188 | Param Inter 1 of 2 | |
| Calcium (mg/L) | BAW-7 | 1.697 | n/a | 10/6/2022 | 4.84 | Yes | 42 | 0.9557 | 0.1301 | 4.762 | None | x^(1/3) | 0.00188 | Param Inter 1 of 2 | |
| pH (SU) | BAW-3 | 5.392 | 4.55 | 10/5/2022 | 4.51 | Yes | 41 | 1.705 | 0.02644 | 0 | None | x^(1/3) | 0.0009398 | Param Inter 1 of 2 | |
| pH (SU) | BAW-4 | 5.392 | 4.55 | 10/5/2022 | 5.57 | Yes | 41 | 1.705 | 0.02644 | 0 | None | x^(1/3) | 0.0009398 | Param Inter 1 of 2 | |
| pH (SU) | BAW-5 | 5.392 | 4.55 | 10/6/2022 | 6.27 | Yes | 41 | 1.705 | 0.02644 | 0 | None | x^(1/3) | 0.0009398 | Param Inter 1 of 2 | |
| Sulfate (mg/L) | BAW-3 | 5.37 | n/a | 10/5/2022 | 6.07 | Yes | 41 | n/a | n/a | 46.34 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 | |
| Sulfate (mg/L) | BAW-5 | 5.37 | n/a | 10/6/2022 | 19.5 | Yes | 41 | n/a | n/a | 46.34 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 | |
| Sulfate (mg/L) | BAW-7 | 5.37 | n/a | 10/6/2022 | 61.4 | Yes | 41 | n/a | n/a | 46.34 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 | |
| Total Dissolved Solids (mg/L) | BAW-5 | 58.41 | n/a | 10/6/2022 | 155 | Yes | 41 | 4.93 | 1.487 | 4.878 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 | |
| Total Dissolved Solids (mg/L) | BAW-7 | 58.41 | n/a | 10/6/2022 | 135 | Yes | 41 | 4.93 | 1.487 | 4.878 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 | |

Interwell Prediction Limit - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/2/2022, 11:00 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg | NBg | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------------------|--------------|---------------|-------------|------------------|--------------|------------|-----------|---------------|----------------|--------------|--------------|------------|----------------|------------------|------------------------------------|
| Boron (mg/L) | BAW-3 | 0.0928 | n/a | 10/5/2022 | 0.08ND | No | 43 | n/a | n/a | n/a | 88.37 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-4 | 0.0928 | n/a | 10/5/2022 | 0.0714J | No | 43 | n/a | n/a | n/a | 88.37 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-5 | 0.0928 | n/a | 10/6/2022 | 0.631 | Yes | 43 | n/a | n/a | n/a | 88.37 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-7 | 0.0928 | n/a | 10/6/2022 | 1.82 | Yes | 43 | n/a | n/a | n/a | 88.37 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | BAW-3 | 1.697 | n/a | 10/5/2022 | 0.647 | No | 42 | 0.9557 | 0.1301 | 4.762 | None | n/a | x^(1/3) | 0.00188 | Param Inter 1 of 2 |
| Calcium (mg/L) | BAW-4 | 1.697 | n/a | 10/5/2022 | 5.81 | Yes | 42 | 0.9557 | 0.1301 | 4.762 | None | n/a | x^(1/3) | 0.00188 | Param Inter 1 of 2 |
| Calcium (mg/L) | BAW-5 | 1.697 | n/a | 10/6/2022 | 28.2 | Yes | 42 | 0.9557 | 0.1301 | 4.762 | None | n/a | x^(1/3) | 0.00188 | Param Inter 1 of 2 |
| Calcium (mg/L) | BAW-7 | 1.697 | n/a | 10/6/2022 | 4.84 | Yes | 42 | 0.9557 | 0.1301 | 4.762 | None | n/a | x^(1/3) | 0.00188 | Param Inter 1 of 2 |
| Chloride (mg/L) | BAW-3 | 16.4 | n/a | 10/5/2022 | 6.04 | No | 41 | n/a | n/a | 0 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-4 | 16.4 | n/a | 10/5/2022 | 8.84 | No | 41 | n/a | n/a | 0 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-5 | 16.4 | n/a | 10/6/2022 | 9.04 | No | 41 | n/a | n/a | 0 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-7 | 16.4 | n/a | 10/6/2022 | 12.7 | No | 41 | n/a | n/a | 0 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | BAW-3 | 0.1 | n/a | 10/5/2022 | 0.1ND | No | 43 | n/a | n/a | 90.7 | n/a | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | BAW-4 | 0.1 | n/a | 10/5/2022 | 0.0322J | No | 43 | n/a | n/a | 90.7 | n/a | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | BAW-5 | 0.1 | n/a | 10/6/2022 | 0.0972J | No | 43 | n/a | n/a | 90.7 | n/a | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | BAW-7 | 0.1 | n/a | 10/6/2022 | 0.1ND | No | 43 | n/a | n/a | 90.7 | n/a | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| pH (SU) | BAW-3 | 5.392 | 4.55 | 10/5/2022 | 4.51 | Yes | 41 | 1.705 | 0.02644 | 0 | None | n/a | x^(1/3) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-4 | 5.392 | 4.55 | 10/5/2022 | 5.57 | Yes | 41 | 1.705 | 0.02644 | 0 | None | n/a | x^(1/3) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-5 | 5.392 | 4.55 | 10/6/2022 | 6.27 | Yes | 41 | 1.705 | 0.02644 | 0 | None | n/a | x^(1/3) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-7 | 5.392 | 4.55 | 10/6/2022 | 4.71 | No | 41 | 1.705 | 0.02644 | 0 | None | n/a | x^(1/3) | 0.0009398 | Param Inter 1 of 2 |
| Sulfate (mg/L) | BAW-3 | 5.37 | n/a | 10/5/2022 | 6.07 | Yes | 41 | n/a | n/a | 46.34 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-4 | 5.37 | n/a | 10/5/2022 | 4.12 | No | 41 | n/a | n/a | 46.34 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-5 | 5.37 | n/a | 10/6/2022 | 19.5 | Yes | 41 | n/a | n/a | 46.34 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-7 | 5.37 | n/a | 10/6/2022 | 61.4 | Yes | 41 | n/a | n/a | 46.34 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-3 | 58.41 | n/a | 10/5/2022 | 32 | No | 41 | 4.93 | 1.487 | 4.878 | None | n/a | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-4 | 58.41 | n/a | 10/5/2022 | 52 | No | 41 | 4.93 | 1.487 | 4.878 | None | n/a | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-5 | 58.41 | n/a | 10/6/2022 | 155 | Yes | 41 | 4.93 | 1.487 | 4.878 | None | n/a | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-7 | 58.41 | n/a | 10/6/2022 | 135 | Yes | 41 | 4.93 | 1.487 | 4.878 | None | n/a | sqrt(x) | 0.00188 | Param Inter 1 of 2 |

Trend Tests - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/2/2022, 10:15 AM

| <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> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Calcium (mg/L) | BAW-2 (bg) | -0.4143 | -23 | -21 | Yes | 8 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-2 (bg) | -0.5393 | -29 | -25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-3 | -0.05966 | -118 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-5 | -0.06868 | -115 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-1 (bg) | -0.5125 | -101 | -87 | Yes | 21 | 52.38 | n/a | n/a | 0.01 | NP |

Trend Tests - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/2/2022, 10:15 AM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|-------------------|-----------------|-------------|------------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Boron (mg/L) | BAW-1 (bg) | 0 | 9 | 92 | No | 22 | 95.45 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-2 (bg) | 0 | 0 | 25 | No | 9 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-2A (bg) | 0 | -18 | -38 | No | 12 | 66.67 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-5 | 0 | -2 | -92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-7 | 0 | 72 | 92 | No | 22 | 81.82 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-1 (bg) | 0.03742 | 65 | 92 | No | 22 | 4.545 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-2 (bg) | -0.4143 | -23 | -21 | Yes | 8 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-2A (bg) | -0.06268 | -36 | -38 | No | 12 | 8.333 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-4 | 0.2694 | 90 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-5 | -0.382 | -25 | -92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-7 | 0.03332 | 29 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-1 (bg) | -0.02148 | -38 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-2 (bg) | -0.5393 | -29 | -25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-2A (bg) | -0.07555 | -24 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-3 | -0.05966 | -118 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-4 | 0.04519 | 66 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-5 | -0.06868 | -115 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-1 (bg) | -0.5125 | -101 | -87 | Yes | 21 | 52.38 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-2 (bg) | 0 | -11 | -25 | No | 9 | 77.78 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-2A (bg) | 0.6255 | 20 | 34 | No | 11 | 9.091 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-3 | 0.02922 | 34 | 87 | No | 21 | 19.05 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-5 | 0.1981 | 20 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-7 | -0.01929 | -36 | -87 | No | 21 | 42.86 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-1 (bg) | 1.555 | 52 | 87 | No | 21 | 9.524 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-2 (bg) | -5.236 | -4 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-2A (bg) | 0.9444 | 5 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-5 | -0.4163 | -4 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-7 | 2.528 | 44 | 87 | No | 21 | 14.29 | n/a | n/a | 0.01 | NP |

Upper Tolerance Limits

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 12/7/2022, 3:14 PM

| Constituent | Well | Upper Lim. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|------|------------|------|---------|-----------|-------|---------|-----------|--------|---------------------|
| Antimony (mg/L) | n/a | 0.002 | 35 | n/a | n/a | 97.14 | n/a | n/a | 0.1661 | NP Inter(NDs) |
| Arsenic (mg/L) | n/a | 0.001 | 41 | n/a | n/a | 100 | n/a | n/a | 0.1221 | NP Inter(NDs) |
| Barium (mg/L) | n/a | 0.0512 | 41 | n/a | n/a | 2.439 | n/a | n/a | 0.1221 | NP Inter(normality) |
| Beryllium (mg/L) | n/a | 0.001 | 37 | n/a | n/a | 97.3 | n/a | n/a | 0.1499 | NP Inter(NDs) |
| Cadmium (mg/L) | n/a | 0.001 | 41 | n/a | n/a | 97.56 | n/a | n/a | 0.1221 | NP Inter(NDs) |
| Chromium (mg/L) | n/a | 0.00286 | 39 | n/a | n/a | 89.74 | n/a | n/a | 0.1353 | NP Inter(NDs) |
| Cobalt (mg/L) | n/a | 0.002 | 41 | n/a | n/a | 7.317 | n/a | n/a | 0.1221 | NP Inter(normality) |
| Combined Radium 226 + 228 (pCi/L) | n/a | 2.5 | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.1221 | NP Inter(normality) |
| Fluoride (mg/L) | n/a | 0.1 | 43 | n/a | n/a | 90.7 | n/a | n/a | 0.1102 | NP Inter(NDs) |
| Lead (mg/L) | n/a | 0.001 | 39 | n/a | n/a | 100 | n/a | n/a | 0.1353 | NP Inter(NDs) |
| Lithium (mg/L) | n/a | 0.00505 | 40 | n/a | n/a | 70 | n/a | n/a | 0.1285 | NP Inter(NDs) |
| Mercury (mg/L) | n/a | 0.0002 | 33 | n/a | n/a | 93.94 | n/a | n/a | 0.184 | NP Inter(NDs) |
| Molybdenum (mg/L) | n/a | 0.005 | 37 | n/a | n/a | 89.19 | n/a | n/a | 0.1499 | NP Inter(NDs) |
| Selenium (mg/L) | n/a | 0.005 | 37 | n/a | n/a | 83.78 | n/a | n/a | 0.1499 | NP Inter(NDs) |
| Thallium (mg/L) | n/a | 0.001 | 37 | n/a | n/a | 97.3 | n/a | n/a | 0.1499 | NP Inter(NDs) |

| PLANT DANIEL BOTTOM ASH 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 | | 0.001 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.051 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.001 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.001 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0029 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.002 | 0.006 |
| Combined Radium, Total (pCi/L) | 5 | | 2.5 | 5 |
| Fluoride, Total (mg/L) | 4 | | 0.1 | 4 |
| Lead, Total (mg/L) | 0.015 | | 0.001 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.0051 | 0.04 |
| Mercury, Total (mg/L) | 0.002 | | 0.0002 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.005 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 12/7/2022, 3:19 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|----------------|-------|------------|------------|------------|------|----|--------|-----------|------|---------|-----------|-------|--------|
| Lithium (mg/L) | BAW-5 | 0.1909 | 0.1499 | 0.04 | Yes | 21 | 0.1658 | 0.04547 | 0 | None | x^2 | 0.01 | Param. |

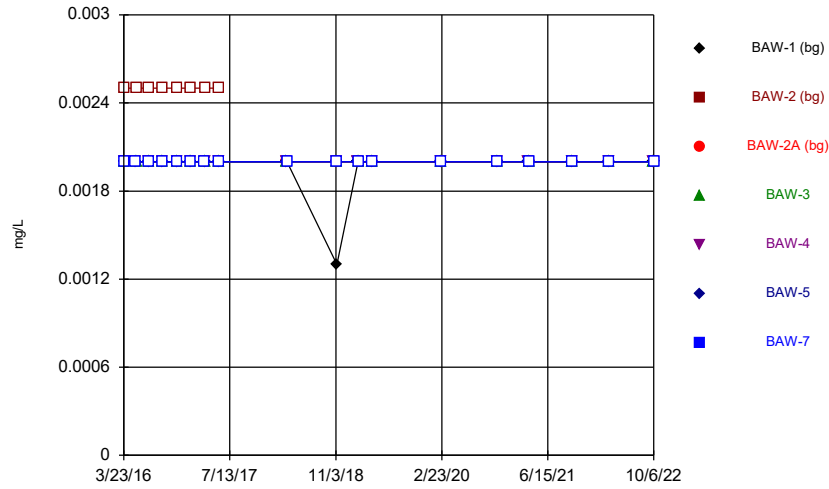
Confidence Intervals - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 12/7/2022, 3:19 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|--------------|---------------|---------------|-------------|------------|-----------|---------------|----------------|----------|-------------|------------|-------------|----------------|
| Arsenic (mg/L) | BAW-4 | 0.0013 | 0.00069 | 0.01 | No | 21 | 0.001315 | 0.001121 | 19.05 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | BAW-5 | 0.004008 | 0.001811 | 0.01 | No | 21 | 0.003586 | 0.003312 | 0 | None | ln(x) | 0.01 | Param. |
| Arsenic (mg/L) | BAW-7 | 0.001 | 0.00052 | 0.01 | No | 21 | 0.0009533 | 0.0001474 | 90.48 | None | No | 0.01 | NP (NDs) |
| Barium (mg/L) | BAW-3 | 0.03086 | 0.02234 | 2 | No | 21 | 0.0266 | 0.00772 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | BAW-4 | 0.012 | 0.00888 | 2 | No | 21 | 0.01294 | 0.007289 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | BAW-5 | 0.046 | 0.039 | 2 | No | 21 | 0.04606 | 0.009499 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | BAW-7 | 0.014 | 0.011 | 2 | No | 21 | 0.01694 | 0.01794 | 0 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | BAW-7 | 0.001 | 0.000185 | 0.004 | No | 19 | 0.0009571 | 0.000187 | 94.74 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | BAW-3 | 0.0009016 | 0.0005983 | 0.005 | No | 21 | 0.0007499 | 0.0002749 | 4.762 | None | No | 0.01 | Param. |
| Cadmium (mg/L) | BAW-5 | 0.001 | 0.000155 | 0.005 | No | 21 | 0.0009598 | 0.0001844 | 95.24 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-3 | 0.003 | 0.00165 | 0.1 | No | 20 | 0.002888 | 0.003824 | 85 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-4 | 0.002 | 0.0015 | 0.1 | No | 20 | 0.001905 | 0.0002438 | 85 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-5 | 0.0024 | 0.0012 | 0.1 | No | 20 | 0.00213 | 0.0007057 | 85 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-7 | 0.00206 | 0.002 | 0.1 | No | 20 | 0.002003 | 0.00001342 | 95 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | BAW-3 | 0.006271 | 0.004868 | 0.006 | No | 21 | 0.00557 | 0.001272 | 0 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | BAW-4 | 0.001358 | 0.001006 | 0.006 | No | 21 | 0.001202 | 0.0003495 | 0 | None | x^(1/3) | 0.01 | Param. |
| Cobalt (mg/L) | BAW-5 | 0.000802 | 0.00042 | 0.006 | No | 21 | 0.0005771 | 0.0002298 | 80.95 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | BAW-7 | 0.001 | 0.000705 | 0.006 | No | 21 | 0.0011 | 0.001022 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-3 | 0.78 | 0.126 | 5 | No | 21 | 0.6023 | 0.7205 | 9.524 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-4 | 0.7712 | 0.1114 | 5 | No | 21 | 0.6262 | 0.8202 | 14.29 | None | x^(1/3) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | BAW-5 | 0.8564 | 0.3395 | 5 | No | 20 | 0.6551 | 0.562 | 5 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | BAW-7 | 1.07 | 0.2882 | 5 | No | 21 | 0.8112 | 0.8459 | 14.29 | None | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | BAW-3 | 0.1 | 0.034 | 4 | No | 22 | 0.09385 | 0.01991 | 90.91 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | BAW-4 | 0.0544 | 0.04 | 4 | No | 22 | 0.05858 | 0.02669 | 27.27 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | BAW-5 | 0.07 | 0.05 | 4 | No | 22 | 0.06407 | 0.02828 | 4.545 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | BAW-7 | 0.1 | 0.0415 | 4 | No | 22 | 0.094 | 0.01954 | 90.91 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-3 | 0.001 | 0.000236 | 0.015 | No | 20 | 0.0006714 | 0.0003848 | 55 | None | No | 0.01 | NP (normality) |
| Lead (mg/L) | BAW-4 | 0.001 | 0.00042 | 0.015 | No | 20 | 0.0008577 | 0.0002969 | 80 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-5 | 0.001 | 0.000152 | 0.015 | No | 20 | 0.0009576 | 0.0001896 | 95 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-7 | 0.001 | 0.000129 | 0.015 | No | 20 | 0.0009565 | 0.0001948 | 95 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | BAW-3 | 0.005 | 0.00322 | 0.04 | No | 21 | 0.004408 | 0.001284 | 66.67 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | BAW-4 | 0.0267 | 0.021 | 0.04 | No | 21 | 0.02313 | 0.007405 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | BAW-5 | 0.1909 | 0.1499 | 0.04 | Yes | 21 | 0.1658 | 0.04547 | 0 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | BAW-7 | 0.005 | 0.0035 | 0.04 | No | 21 | 0.004714 | 0.001979 | 57.14 | None | No | 0.01 | NP (normality) |
| Mercury (mg/L) | BAW-3 | 0.000497 | 0.00013 | 0.002 | No | 17 | 0.0002065 | 0.00008133 | 82.35 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-4 | 0.0002 | 0.00013 | 0.002 | No | 17 | 0.0001884 | 0.00003423 | 88.24 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-5 | 0.0002 | 0.000074 | 0.002 | No | 17 | 0.0001926 | 0.00003056 | 94.12 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-7 | 0.000235 | 0.000151 | 0.002 | No | 17 | 0.0002504 | 0.0002471 | 76.47 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | BAW-4 | 0.015 | 0.00109 | 0.1 | No | 19 | 0.01141 | 0.006194 | 73.68 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | BAW-5 | 0.015 | 0.0011 | 0.1 | No | 19 | 0.006688 | 0.006061 | 31.58 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | BAW-7 | 0.005 | 0.0038 | 0.1 | No | 19 | 0.004937 | 0.0002753 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | BAW-3 | 0.005 | 0.00038 | 0.05 | No | 19 | 0.003336 | 0.002243 | 63.16 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | BAW-5 | 0.005 | 0.00033 | 0.05 | No | 19 | 0.004754 | 0.001071 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | BAW-7 | 0.005 | 0.00036 | 0.05 | No | 19 | 0.003857 | 0.002001 | 73.68 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | BAW-3 | 0.001 | 0.000276 | 0.002 | No | 19 | 0.0008218 | 0.0003564 | 78.95 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | BAW-7 | 0.001 | 0.000153 | 0.002 | No | 19 | 0.0009554 | 0.0001943 | 94.74 | None | No | 0.01 | NP (NDs) |

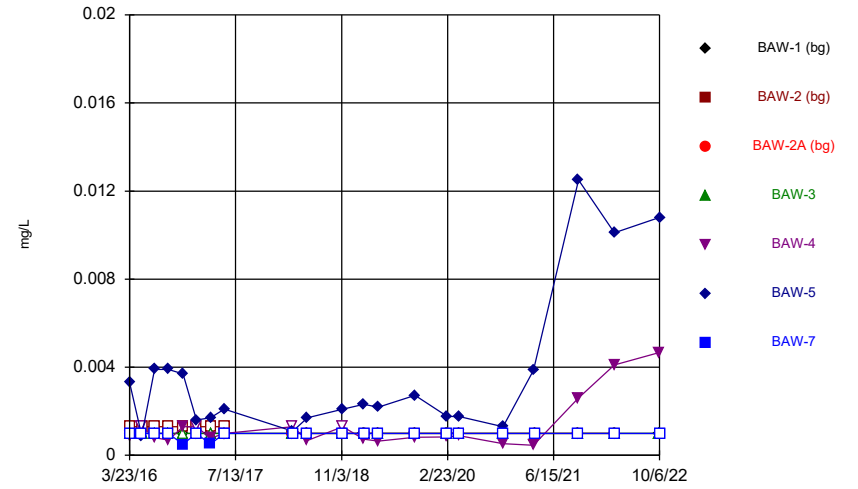
FIGURE A.

Time Series



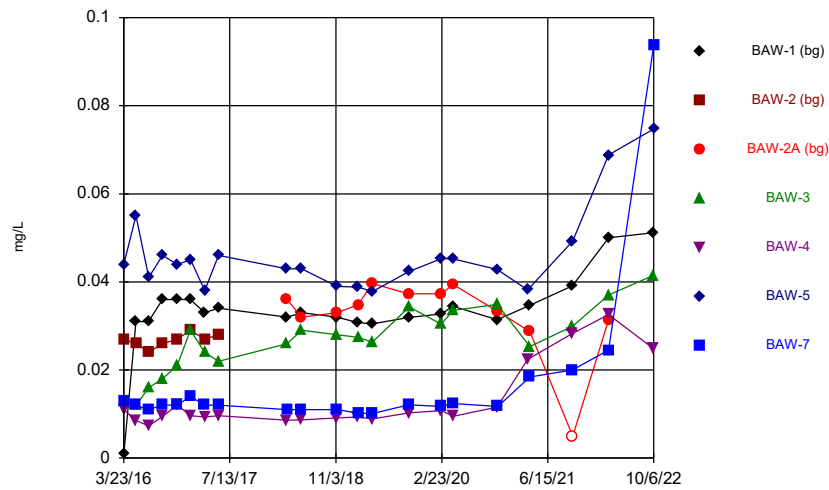
Constituent: Antimony Analysis Run 12/7/2022 12:12 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



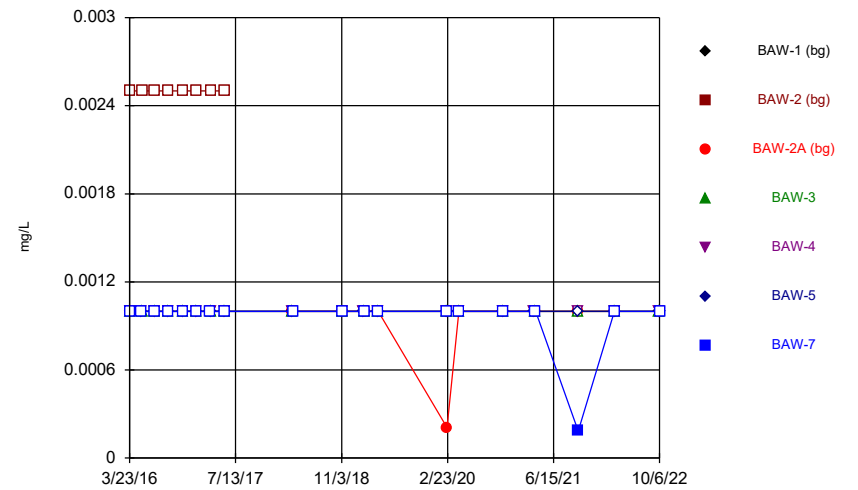
Constituent: Arsenic Analysis Run 12/7/2022 12:12 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



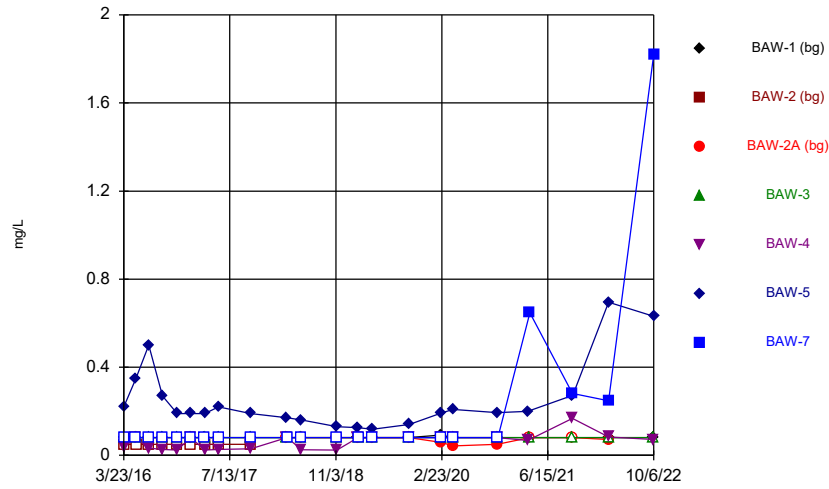
Constituent: Barium Analysis Run 12/7/2022 12:12 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



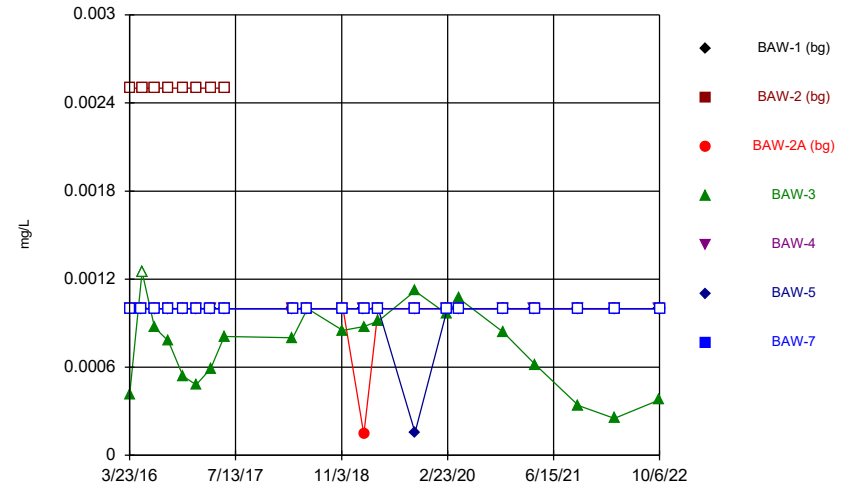
Constituent: Beryllium Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



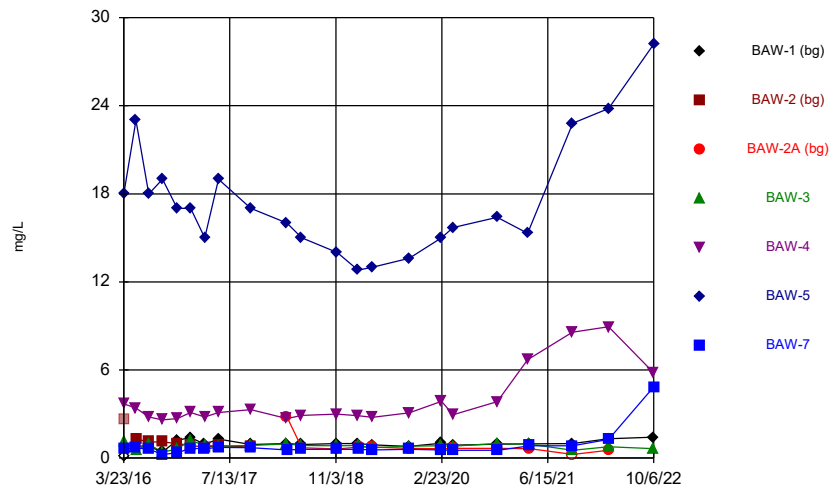
Constituent: Boron Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



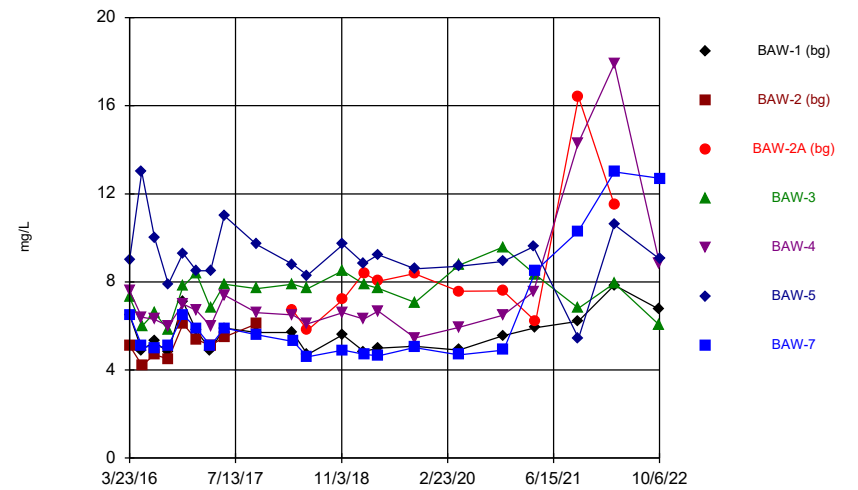
Constituent: Cadmium Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



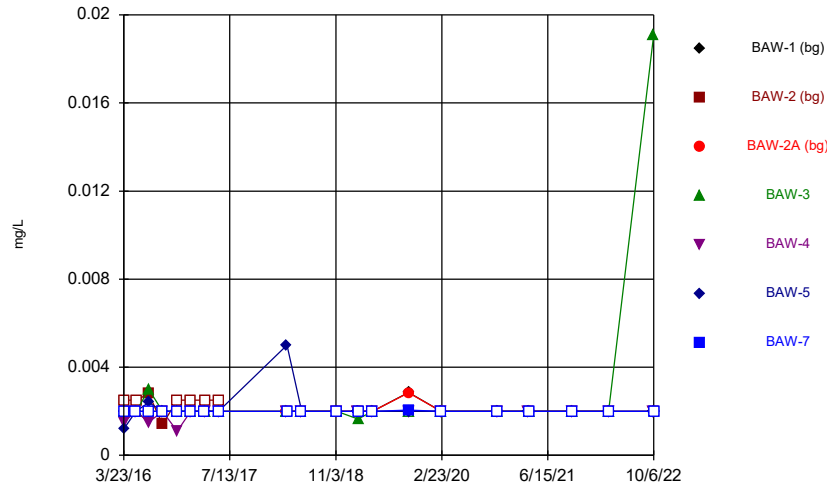
Constituent: Calcium Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



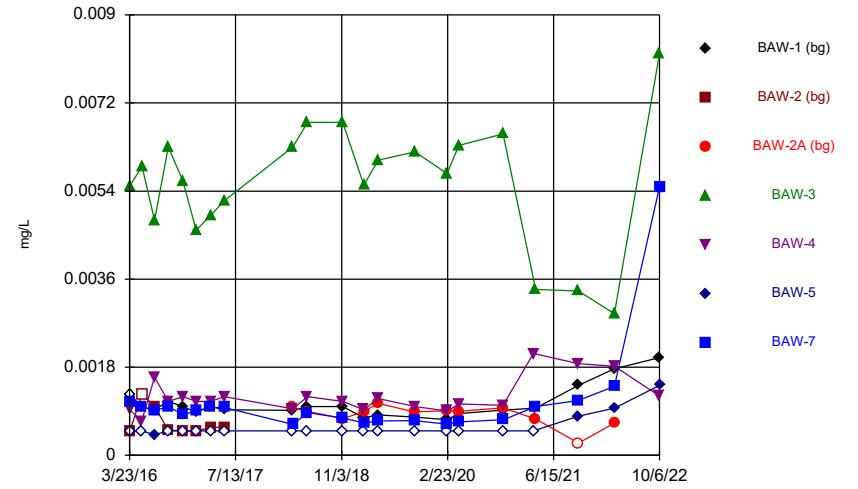
Constituent: Chloride Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



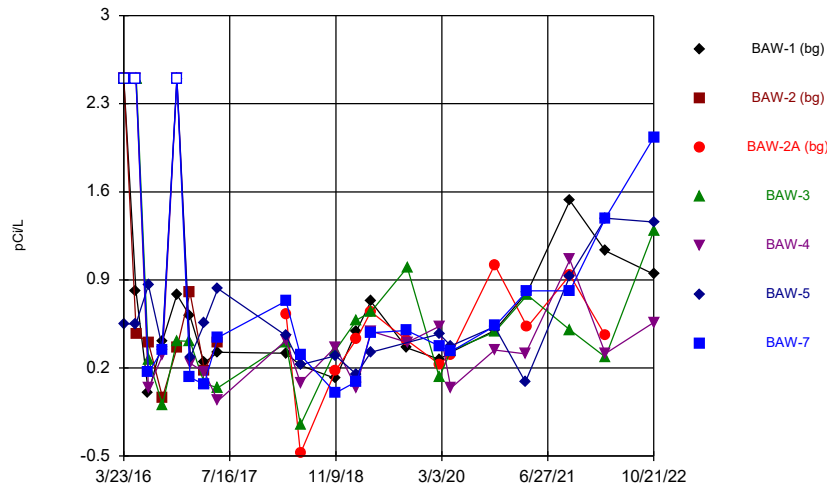
Constituent: Chromium Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



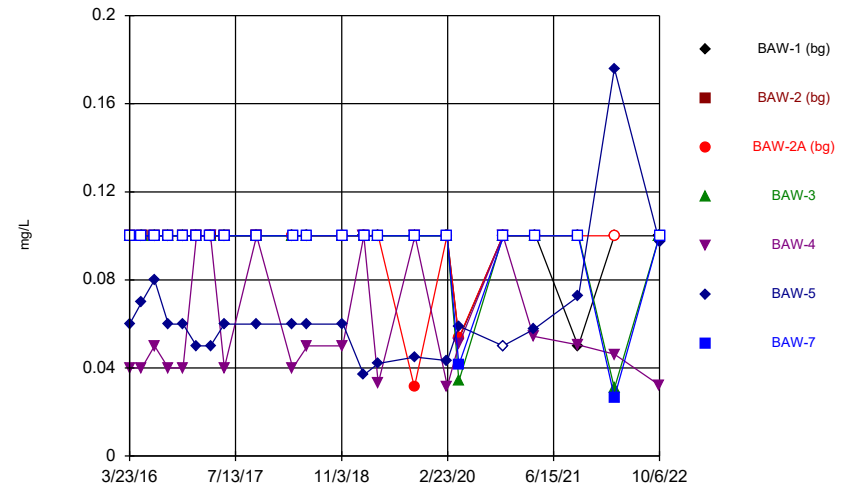
Constituent: Cobalt Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



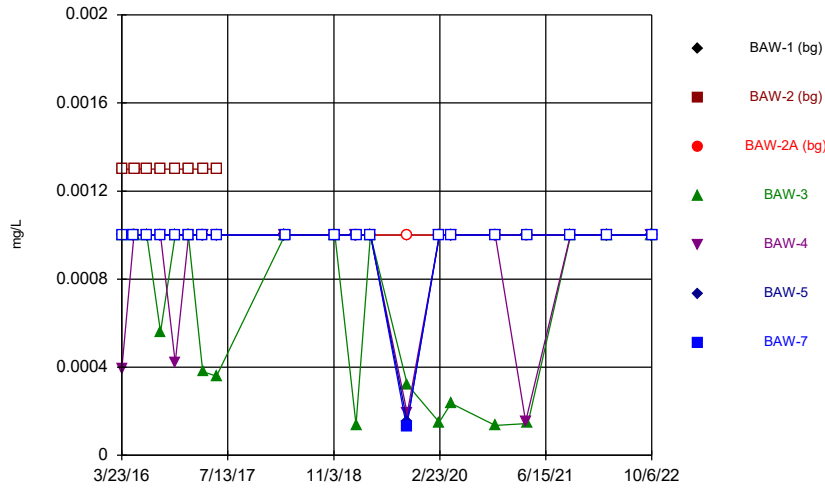
Constituent: Combined Radium 226 + 228 Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



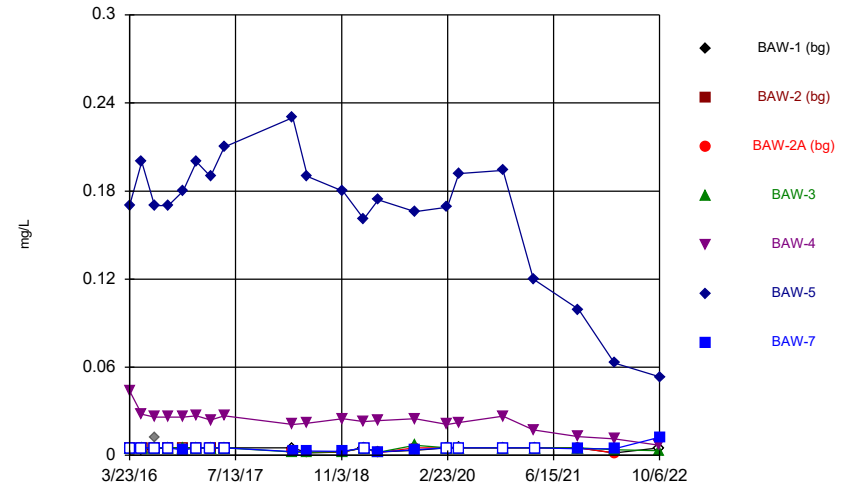
Constituent: Fluoride Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



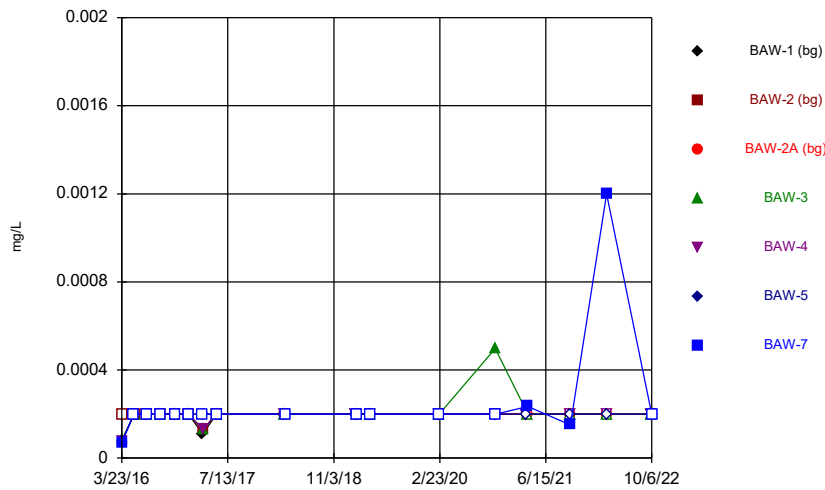
Constituent: Lead Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



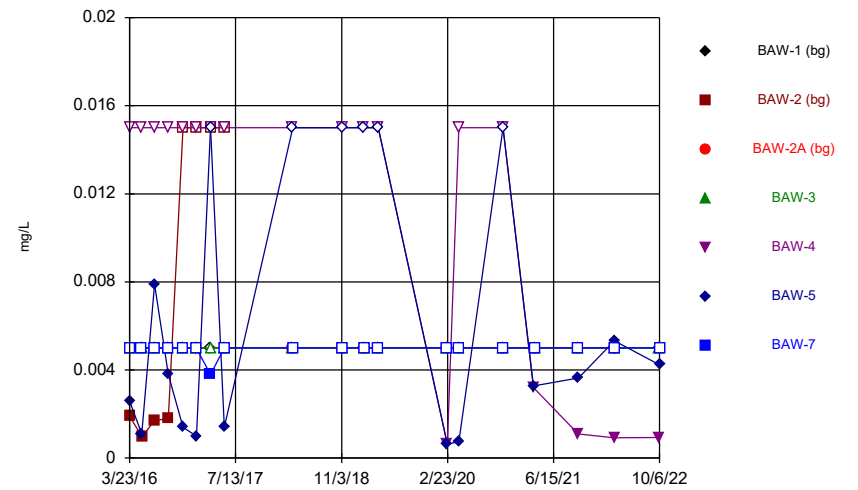
Constituent: Lithium Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



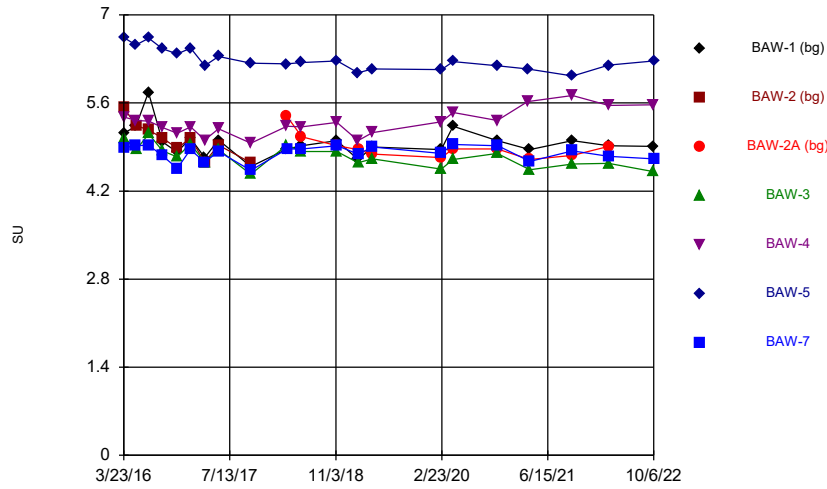
Constituent: Mercury Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



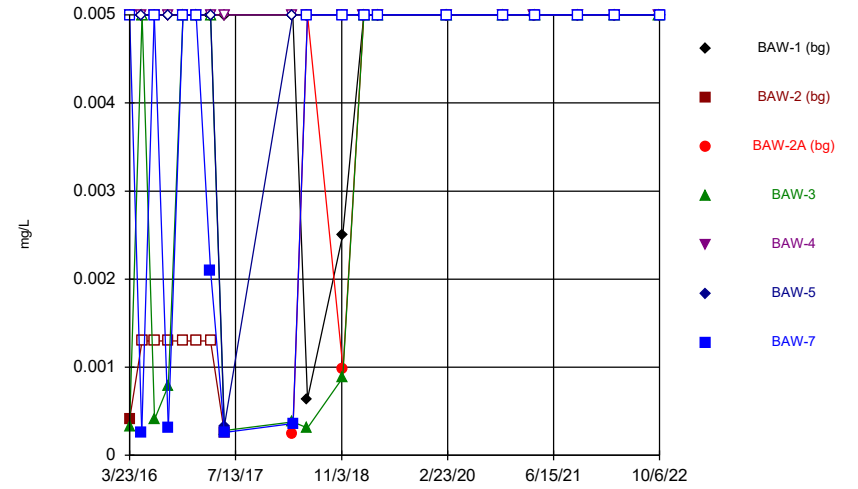
Constituent: Molybdenum Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



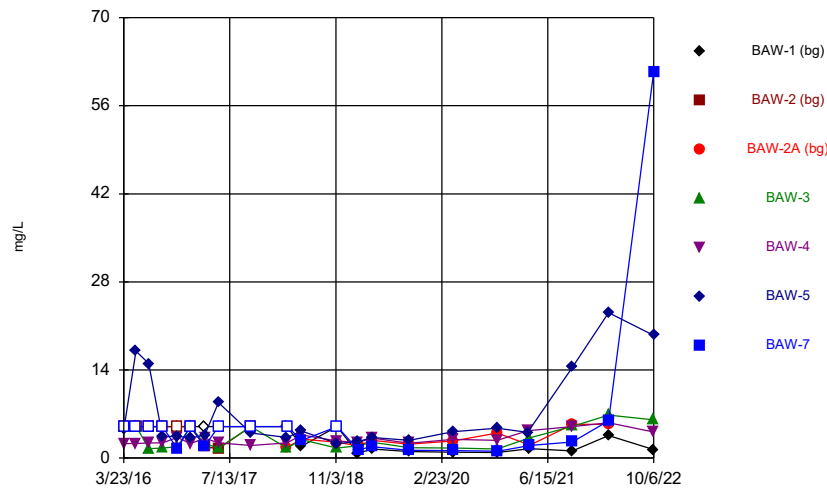
Constituent: pH Analysis Run 12/7/2022 12:13 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



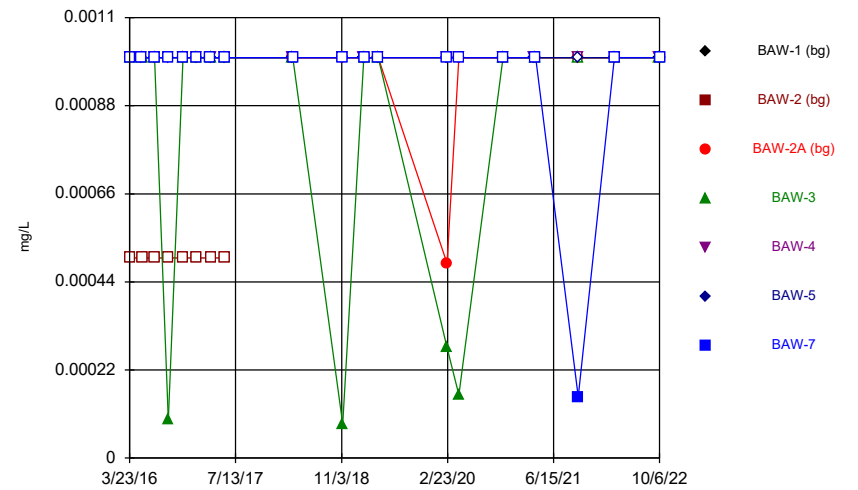
Constituent: Selenium Analysis Run 12/7/2022 12:13 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



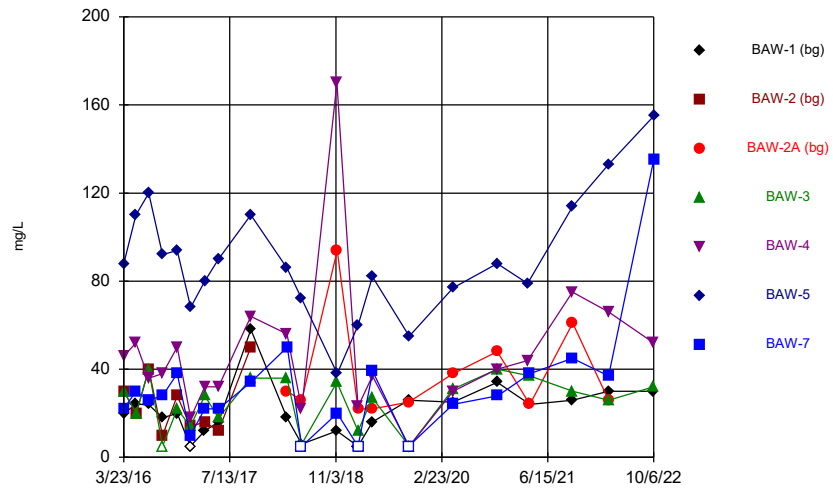
Constituent: Sulfate Analysis Run 12/7/2022 12:13 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



Constituent: Thallium Analysis Run 12/7/2022 12:13 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 12/7/2022 12:13 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|--------|--------|--------|--------|
| 3/23/2016 | <0.002 | <0.0025 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 5/17/2016 | <0.002 | | | | <0.002 | <0.002 | <0.002 |
| 5/18/2016 | | <0.0025 | | <0.002 | | | |
| 7/12/2016 | <0.002 | | | | | | <0.002 |
| 7/13/2016 | | <0.0025 | | <0.002 | <0.002 | <0.002 | |
| 9/13/2016 | <0.002 | | | | | <0.002 | <0.002 |
| 9/14/2016 | | <0.0025 | | <0.002 | <0.002 | | |
| 11/19/2016 | <0.002 | <0.0025 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 1/17/2017 | <0.002 | <0.0025 | | <0.002 | | | <0.002 |
| 1/18/2017 | | | | | <0.002 | <0.002 | |
| 3/22/2017 | <0.002 | | | | | | <0.002 |
| 3/23/2017 | | <0.0025 | | <0.002 | <0.002 | <0.002 | |
| 5/24/2017 | <0.002 | <0.0025 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 3/28/2018 | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 | |
| 3/29/2018 | | | | | | | <0.002 |
| 11/8/2018 | 0.0013 (J) | | | <0.002 | <0.002 | | |
| 11/9/2018 | | | <0.002 | | | <0.002 | <0.002 |
| 2/11/2019 | <0.002 | | | | <0.002 | <0.002 | |
| 2/12/2019 | | | <0.002 | <0.002 | | | <0.002 |
| 4/17/2019 | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 | |
| 4/18/2019 | | | | | | | <0.002 |
| 2/21/2020 | <0.002 | | <0.002 | <0.002 | | | <0.002 |
| 2/22/2020 | | | | | <0.002 | <0.002 | |
| 10/30/2020 | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 | |
| 11/2/2020 | | | | | | | <0.002 |
| 3/17/2021 | | | | | <0.002 | <0.002 | |
| 3/26/2021 | <0.002 | | <0.002 | <0.002 | | | <0.002 |
| 10/5/2021 | <0.002 | | | | <0.002 | | <0.002 |
| 10/6/2021 | | | <0.002 | <0.002 | | <0.002 | |
| 3/16/2022 | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| 10/5/2022 | <0.002 | | | <0.002 | <0.002 | | |
| 10/6/2022 | | | | | | <0.002 | <0.002 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|--------|--------------|-------------|-------------|
| 3/23/2016 | <0.001 | <0.0013 | | <0.001 | 0.00087 (J) | 0.0033 | <0.001 |
| 5/17/2016 | <0.001 | | | | <0.0013 | 0.00089 (J) | <0.001 |
| 5/18/2016 | | <0.0013 | | <0.001 | | | |
| 7/12/2016 | <0.001 | | | | | | <0.001 |
| 7/13/2016 | | <0.0013 | | <0.001 | 0.00081 (J) | 0.0039 | |
| 9/13/2016 | <0.001 | | | | | 0.0039 | <0.001 |
| 9/14/2016 | | <0.0013 | | <0.001 | 0.00069 (J) | | |
| 11/19/2016 | <0.001 | <0.0013 | | <0.001 | 0.0013 | 0.0037 | 0.0005 (J) |
| 1/17/2017 | <0.001 | <0.0013 | | <0.001 | | | <0.001 |
| 1/18/2017 | | | | | <0.0013 | 0.0016 | |
| 3/22/2017 | <0.001 | | | | | | 0.00052 (J) |
| 3/23/2017 | | <0.0013 | | <0.001 | 0.00078 (J) | 0.0017 | |
| 5/24/2017 | <0.001 | <0.0013 | | <0.001 | 0.001 (J) | 0.0021 | <0.001 |
| 3/28/2018 | <0.001 | | <0.001 | <0.001 | <0.0013 | 0.0011 (J) | |
| 3/29/2018 | | | | | | | <0.001 |
| 6/2/2018 | <0.001 | | <0.001 | <0.001 | 0.00068 (J) | 0.0017 | <0.001 |
| 11/8/2018 | <0.001 | | | <0.001 | <0.0013 | | |
| 11/9/2018 | | | <0.001 | | | 0.0021 | <0.001 |
| 2/11/2019 | <0.001 | | | | 0.000737 (J) | 0.00232 | |
| 2/12/2019 | | | <0.001 | <0.001 | | | <0.001 |
| 4/17/2019 | <0.001 | | <0.001 | <0.001 | 0.000645 (J) | 0.00218 | |
| 4/18/2019 | | | | | | | <0.001 |
| 9/27/2019 | <0.001 | | <0.001 | | | | <0.001 |
| 9/30/2019 | | | | <0.001 | 0.000821 (J) | 0.00272 | |
| 2/21/2020 | <0.001 | | <0.001 | <0.001 | | | <0.001 |
| 2/22/2020 | | | | | 0.000837 (J) | 0.00177 | |
| 4/14/2020 | <0.001 | | <0.001 | <0.001 | 0.000896 (J) | 0.00177 | <0.001 |
| 10/30/2020 | <0.001 | | <0.001 | <0.001 | 0.000529 (J) | 0.0013 | |
| 11/2/2020 | | | | | | | <0.001 |
| 3/17/2021 | | | | | 0.000454 (J) | 0.00385 | |
| 3/26/2021 | <0.001 | | <0.001 | <0.001 | | | <0.001 |
| 10/5/2021 | <0.001 | | | | 0.00259 | | <0.001 |
| 10/6/2021 | | | <0.001 | <0.001 | | 0.0125 | |
| 3/16/2022 | <0.001 | | <0.001 | <0.001 | 0.00411 | 0.0101 | <0.001 |
| 10/5/2022 | <0.001 | | | <0.001 | 0.00467 | | |
| 10/6/2022 | | | | | | 0.0108 | <0.001 |

Time Series

Constituent: Barium (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|-------------|------------|-------------|--------|-------------|--------|--------|
| 3/23/2016 | 0.00084 (J) | 0.027 | | 0.013 | 0.011 | 0.044 | 0.013 |
| 5/17/2016 | 0.031 | | | | 0.0085 | 0.055 | 0.012 |
| 5/18/2016 | | 0.026 | | 0.012 | | | |
| 7/12/2016 | 0.031 | | | | | | 0.011 |
| 7/13/2016 | | 0.024 | | 0.016 | 0.0073 | 0.041 | |
| 9/13/2016 | 0.036 | | | | | 0.046 | 0.012 |
| 9/14/2016 | | 0.026 | | 0.018 | 0.0095 | | |
| 11/19/2016 | 0.036 | 0.027 | | 0.021 | 0.012 | 0.044 | 0.012 |
| 1/17/2017 | 0.036 | 0.029 | | 0.029 | | | 0.014 |
| 1/18/2017 | | | | | 0.0096 | 0.045 | |
| 3/22/2017 | 0.033 | | | | | | 0.012 |
| 3/23/2017 | | 0.027 | | 0.024 | 0.0093 | 0.038 | |
| 5/24/2017 | 0.034 | 0.028 | | 0.022 | 0.0096 | 0.046 | 0.012 |
| 3/28/2018 | 0.032 | | 0.036 | 0.026 | 0.0086 | 0.043 | |
| 3/29/2018 | | | | | | | 0.011 |
| 6/2/2018 | 0.033 | | 0.032 | 0.029 | 0.0087 | 0.043 | 0.011 |
| 11/8/2018 | 0.032 | | | 0.028 | 0.0091 | | |
| 11/9/2018 | | | 0.033 | | | 0.039 | 0.011 |
| 2/11/2019 | 0.0308 | | | | 0.00931 | 0.0388 | |
| 2/12/2019 | | | 0.0348 | 0.0274 | | | 0.0102 |
| 4/17/2019 | 0.0305 | | 0.0396 | 0.0263 | 0.00888 | 0.0378 | |
| 4/18/2019 | | | | | | | 0.0101 |
| 9/27/2019 | 0.0319 | | 0.0373 | | | | 0.0121 |
| 9/30/2019 | | | | 0.0343 | 0.0103 | 0.0424 | |
| 2/21/2020 | 0.0327 | | 0.0373 | 0.0304 | | | 0.0117 |
| 2/22/2020 | | | | | 0.0108 | 0.0453 | |
| 4/14/2020 | 0.0345 | | 0.0394 | 0.0335 | 0.00949 (J) | 0.0452 | 0.0124 |
| 10/30/2020 | 0.0314 | | 0.0334 | 0.0349 | 0.0116 | 0.0428 | |
| 11/2/2020 | | | | | | | 0.0117 |
| 3/17/2021 | | | | | 0.0224 | 0.0382 | |
| 3/26/2021 | 0.0347 | | 0.0287 | 0.0253 | | | 0.0184 |
| 10/5/2021 | 0.0391 | | | | 0.0283 | | 0.02 |
| 10/6/2021 | | | <0.01 | 0.03 | | 0.0493 | |
| 3/16/2022 | 0.05 | | 0.0314 | 0.037 | 0.0326 | 0.0688 | 0.0245 |
| 10/5/2022 | 0.0512 | | | 0.0415 | 0.0248 | | |
| 10/6/2022 | | | | | | 0.0747 | 0.0937 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|--------------|--------|--------|--------|--------------|
| 3/23/2016 | <0.001 | <0.0025 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 5/17/2016 | <0.001 | | | | <0.001 | <0.001 | <0.001 |
| 5/18/2016 | | <0.0025 | | <0.001 | | | |
| 7/12/2016 | <0.001 | | | | | | <0.001 |
| 7/13/2016 | | <0.0025 | | <0.001 | <0.001 | <0.001 | |
| 9/13/2016 | <0.001 | | | | | <0.001 | <0.001 |
| 9/14/2016 | | <0.0025 | | <0.001 | <0.001 | | |
| 11/19/2016 | <0.001 | <0.0025 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 1/17/2017 | <0.001 | <0.0025 | | <0.001 | | | <0.001 |
| 1/18/2017 | | | | | <0.001 | <0.001 | |
| 3/22/2017 | <0.001 | | | | | | <0.001 |
| 3/23/2017 | | <0.0025 | | <0.001 | <0.001 | <0.001 | |
| 5/24/2017 | <0.001 | <0.0025 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 3/28/2018 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 3/29/2018 | | | | | | | <0.001 |
| 11/8/2018 | <0.001 | | | <0.001 | <0.001 | | |
| 11/9/2018 | | | <0.001 | | | <0.001 | <0.001 |
| 2/11/2019 | <0.001 | | | | <0.001 | <0.001 | |
| 2/12/2019 | | | <0.001 | <0.001 | | | <0.001 |
| 4/17/2019 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 4/18/2019 | | | | | | | <0.001 |
| 2/21/2020 | <0.001 | | 0.000207 (J) | <0.001 | | | <0.001 |
| 2/22/2020 | | | | | <0.001 | <0.001 | |
| 4/14/2020 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 10/30/2020 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 11/2/2020 | | | | | | | <0.001 |
| 3/17/2021 | | | | | <0.001 | <0.001 | |
| 3/26/2021 | <0.001 | | <0.001 | <0.001 | | | <0.001 |
| 10/5/2021 | <0.001 | | | | <0.001 | | 0.000185 (J) |
| 10/6/2021 | | | <0.001 | <0.001 | | <0.001 | |
| 3/16/2022 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 10/5/2022 | <0.001 | | | <0.001 | <0.001 | | |
| 10/6/2022 | | | | | | <0.001 | <0.001 |

Time Series

Constituent: Boron (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|------------|-------|-------|
| 3/23/2016 | <0.08 | <0.05 | | <0.08 | 0.037 (J) | 0.22 | <0.08 |
| 5/17/2016 | <0.08 | | | | <0.08 | 0.35 | <0.08 |
| 5/18/2016 | | <0.05 | | <0.08 | | | |
| 7/12/2016 | <0.08 | | | | | | <0.08 |
| 7/13/2016 | | <0.05 | | <0.08 | 0.032 (J) | 0.5 | |
| 9/13/2016 | <0.08 | | | | | 0.27 | <0.08 |
| 9/14/2016 | | <0.05 | | <0.08 | 0.027 (J) | | |
| 11/19/2016 | <0.08 | <0.05 | | <0.08 | 0.024 (J) | 0.19 | <0.08 |
| 1/17/2017 | <0.08 | <0.05 | | <0.08 | | | <0.08 |
| 1/18/2017 | | | | | <0.08 | 0.19 | |
| 3/22/2017 | <0.08 | | | | | | <0.08 |
| 3/23/2017 | | <0.05 | | <0.08 | 0.024 (J) | 0.19 | |
| 5/24/2017 | <0.08 | <0.05 | | <0.08 | 0.027 (J) | 0.22 | <0.08 |
| 10/16/2017 | <0.08 | <0.05 | | <0.08 | 0.03 (J) | 0.19 | <0.08 |
| 3/28/2018 | <0.08 | | <0.08 | <0.08 | <0.08 | 0.17 | |
| 3/29/2018 | | | | | | | <0.08 |
| 6/2/2018 | <0.08 | | <0.08 | <0.08 | 0.025 (J) | 0.16 | <0.08 |
| 11/8/2018 | <0.08 | | | <0.08 | 0.024 (J) | | |
| 11/9/2018 | | | <0.08 | | | 0.13 | <0.08 |
| 2/11/2019 | <0.08 | | | | <0.08 | 0.126 | |
| 2/12/2019 | | | <0.08 | <0.08 | | | <0.08 |
| 4/17/2019 | <0.08 | | <0.08 | <0.08 | <0.08 | 0.118 | |
| 4/18/2019 | | | | | | | <0.08 |
| 9/27/2019 | <0.08 | | <0.08 | | | | <0.08 |
| 9/30/2019 | | | | <0.08 | <0.08 | 0.14 | |
| 2/21/2020 | 0.0928 | | 0.0589 (J) | <0.08 | | | <0.08 |
| 2/22/2020 | | | | | <0.08 | 0.193 | |
| 4/14/2020 | <0.08 | | 0.0424 (J) | <0.08 | <0.08 | 0.209 | <0.08 |
| 10/30/2020 | <0.08 | | 0.0495 (J) | <0.08 | <0.08 | 0.194 | |
| 11/2/2020 | | | | | | | <0.08 |
| 3/17/2021 | | | | | 0.0673 (J) | 0.2 | |
| 3/26/2021 | <0.08 | | <0.08 | <0.08 | | | 0.647 |
| 10/5/2021 | <0.08 | | | | 0.168 | | 0.281 |
| 10/6/2021 | | | <0.08 | <0.08 | | 0.272 | |
| 3/16/2022 | <0.08 | | 0.0717 (J) | <0.08 | 0.084 | 0.695 | 0.247 |
| 10/5/2022 | <0.08 | | | <0.08 | 0.0714 (J) | | |
| 10/6/2022 | | | | | | 0.631 | 1.82 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|--------------|--------------|--------|--------------|--------|
| 3/23/2016 | <0.001 | <0.0025 | | 0.00041 (J) | <0.001 | <0.001 | <0.001 |
| 5/17/2016 | <0.001 | | | | <0.001 | <0.001 | <0.001 |
| 5/18/2016 | | <0.0025 | | <0.0025 | | | |
| 7/12/2016 | <0.001 | | | | | | <0.001 |
| 7/13/2016 | | <0.0025 | | 0.00087 (J) | <0.001 | <0.001 | |
| 9/13/2016 | <0.001 | | | | | <0.001 | <0.001 |
| 9/14/2016 | | <0.0025 | | 0.00078 (J) | <0.001 | | |
| 11/19/2016 | <0.001 | <0.0025 | | 0.00054 (J) | <0.001 | <0.001 | <0.001 |
| 1/17/2017 | <0.001 | <0.0025 | | 0.00048 (J) | | | <0.001 |
| 1/18/2017 | | | | | <0.001 | <0.001 | |
| 3/22/2017 | <0.001 | | | | | | <0.001 |
| 3/23/2017 | | <0.0025 | | 0.00059 (J) | <0.001 | <0.001 | |
| 5/24/2017 | <0.001 | <0.0025 | | 0.00081 (J) | <0.001 | <0.001 | <0.001 |
| 3/28/2018 | <0.001 | | <0.001 | 0.0008 (J) | <0.001 | <0.001 | |
| 3/29/2018 | | | | | | | <0.001 |
| 6/2/2018 | <0.001 | | <0.001 | 0.001 (J) | <0.001 | <0.001 | <0.001 |
| 11/8/2018 | <0.001 | | | 0.00085 (J) | <0.001 | | |
| 11/9/2018 | | | <0.001 | | | <0.001 | <0.001 |
| 2/11/2019 | <0.001 | | | | <0.001 | <0.001 | |
| 2/12/2019 | | | 0.000143 (J) | 0.000877 (J) | | | <0.001 |
| 4/17/2019 | <0.001 | | <0.001 | 0.000915 (J) | <0.001 | <0.001 | |
| 4/18/2019 | | | | | | | <0.001 |
| 9/27/2019 | <0.001 | | <0.001 | | | | <0.001 |
| 9/30/2019 | | | | 0.00112 (J) | <0.001 | 0.000155 (J) | |
| 2/21/2020 | <0.001 | | <0.001 | 0.000962 (J) | | | <0.001 |
| 2/22/2020 | | | | | <0.001 | <0.001 | |
| 4/14/2020 | <0.001 | | <0.001 | 0.00107 (J) | <0.001 | <0.001 | <0.001 |
| 10/30/2020 | <0.001 | | <0.001 | 0.00084 (J) | <0.001 | <0.001 | |
| 11/2/2020 | | | | | | | <0.001 |
| 3/17/2021 | | | | | <0.001 | <0.001 | |
| 3/26/2021 | <0.001 | | <0.001 | 0.000615 (J) | | | <0.001 |
| 10/5/2021 | <0.001 | | | | <0.001 | | <0.001 |
| 10/6/2021 | | | <0.001 | 0.000338 (J) | | <0.001 | |
| 3/16/2022 | <0.001 | | <0.001 | 0.000252 (J) | <0.001 | <0.001 | <0.001 |
| 10/5/2022 | <0.001 | | | 0.000379 (J) | <0.001 | | |
| 10/6/2022 | | | | | | <0.001 | <0.001 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016 | <0.25 | 2.6 (o) | | 1.1 | 3.7 | 18 | 0.65 |
| 5/17/2016 | 0.84 | | | | 3.4 | 23 | 0.68 |
| 5/18/2016 | | 1.3 | | 0.56 | | | |
| 7/12/2016 | 0.79 | | | | | | 0.62 |
| 7/13/2016 | | 1.1 | | 0.95 | 2.8 | 18 | |
| 9/13/2016 | 0.42 | | | | | 19 | 0.25 |
| 9/14/2016 | | 1.1 | | 0.4 | 2.6 | | |
| 11/19/2016 | 1.2 | 1 | | 0.62 | 2.7 | 17 | 0.36 |
| 1/17/2017 | 1.4 | 0.87 | | 1.2 | | | 0.66 |
| 1/18/2017 | | | | | 3.1 | 17 | |
| 3/22/2017 | 0.95 | | | | | | 0.65 |
| 3/23/2017 | | 0.74 | | 0.87 | 2.8 | 15 | |
| 5/24/2017 | 1.3 | 0.84 | | 0.81 | 3.1 | 19 | 0.72 |
| 10/16/2017 | 0.93 | 0.76 | | 0.86 | 3.3 | 17 | 0.7 |
| 3/28/2018 | 1 | | 2.8 | 0.97 | 2.7 | 16 | |
| 3/29/2018 | | | | | | | 0.55 |
| 6/2/2018 | 0.93 | | 0.71 | 0.86 | 2.9 | 15 | 0.6 |
| 11/8/2018 | 1 | | | 0.84 | 3 | | |
| 11/9/2018 | | | 0.61 | | | 14 | 0.59 |
| 2/11/2019 | 1 | | | | 2.88 | 12.8 | |
| 2/12/2019 | | | 0.757 | 0.856 | | | 0.608 |
| 4/17/2019 | 0.893 | | 0.755 | 0.711 | 2.77 | 13 | |
| 4/18/2019 | | | | | | | 0.55 |
| 9/27/2019 | 0.8 | | 0.663 | | | | 0.598 |
| 9/30/2019 | | | | 0.826 | 3.08 | 13.6 | |
| 2/21/2020 | 1.02 | | 0.648 | 0.841 | | | 0.552 |
| 2/22/2020 | | | | | 3.86 | 15 | |
| 4/14/2020 | 0.887 | | 0.67 | 0.811 | 2.95 | 15.7 | 0.532 |
| 10/30/2020 | 0.945 | | 0.672 | 1 | 3.84 | 16.4 | |
| 11/2/2020 | | | | | | | 0.535 |
| 3/17/2021 | | | | | 6.69 | 15.3 | |
| 3/26/2021 | 0.965 | | 0.644 | 0.937 | | | 0.848 |
| 10/5/2021 | 0.996 | | | | 8.57 | | 0.829 |
| 10/6/2021 | | | <0.5 | 0.532 | | 22.8 | |
| 3/16/2022 | 1.32 | | 0.539 | 0.78 | 8.94 | 23.8 | 1.28 |
| 10/5/2022 | 1.42 | | | 0.647 | 5.81 | | |
| 10/6/2022 | | | | | | 28.2 | 4.84 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016 | 6.5 | 5.1 | | 7.3 | 7.6 | 9 | 6.5 |
| 5/17/2016 | 4.9 | | | | 6.4 | 13 | 5.1 |
| 5/18/2016 | | 4.2 | | 6 | | | |
| 7/12/2016 | 5.3 | | | | | | 5 |
| 7/13/2016 | | 4.7 | | 6.6 | 6.3 | 10 | |
| 9/13/2016 | 4.8 (F1) | | | | | 7.9 | 5.1 |
| 9/14/2016 | | 4.5 | | 5.8 | 6 | | |
| 11/19/2016 | 7.1 | 6.1 | | 7.8 | 7 | 9.3 | 6.5 |
| 1/17/2017 | 5.8 | 5.4 | | 8.4 | | | 5.9 |
| 1/18/2017 | | | | | 6.7 | 8.5 | |
| 3/22/2017 | 4.9 | | | | | | 5.1 |
| 3/23/2017 | | 5.1 | | 6.8 | 6 | 8.5 | |
| 5/24/2017 | 5.9 | 5.5 | | 7.9 | 7.4 | 11 | 5.9 |
| 10/16/2017 | 5.7 | 6.1 | | 7.7 | 6.6 | 9.7 | 5.6 |
| 3/28/2018 | 5.7 | | 6.7 | 7.9 | 6.5 | 8.8 | |
| 3/29/2018 | | | | | | | 5.3 |
| 6/2/2018 | 4.7 | | 5.8 | 7.7 | 6.1 | 8.3 | 4.6 |
| 11/8/2018 | 5.6 | | | 8.5 | 6.6 | | |
| 11/9/2018 | | | 7.2 | | | 9.7 | 4.9 |
| 2/11/2019 | 4.84 | | | | 6.31 | 8.84 | |
| 2/12/2019 | | | 8.4 | 7.89 | | | 4.72 |
| 4/17/2019 | 4.99 | | 8.03 | 7.71 | 6.68 | 9.24 | |
| 4/18/2019 | | | | | | | 4.64 |
| 9/27/2019 | 5.08 | | 8.37 | | | | 5.02 |
| 9/30/2019 | | | | 7.07 | 5.45 | 8.59 | |
| 4/14/2020 | 4.91 | | 7.57 | 8.75 | 5.93 | 8.71 | 4.68 |
| 10/30/2020 | 5.55 | | 7.59 | 9.58 | 6.49 | 8.93 | |
| 11/2/2020 | | | | | | | 4.91 |
| 3/17/2021 | | | | | 7.55 | 9.6 | |
| 3/26/2021 | 5.92 | | 6.21 | 8.32 | | | 8.5 |
| 10/5/2021 | 6.21 | | | | 14.3 | | 10.3 |
| 10/6/2021 | | | 16.4 | 6.8 | | 5.44 | |
| 3/16/2022 | 7.85 | | 11.5 | 7.94 | 17.9 | 10.6 | 13 |
| 10/5/2022 | 6.75 | | | 6.04 | 8.84 | | |
| 10/6/2022 | | | | | | 9.04 | 12.7 |

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------------|------------|------------|-------------|
| 3/23/2016 | <0.002 | <0.0025 | | <0.002 | 0.0015 (J) | 0.0012 (J) | <0.002 |
| 5/17/2016 | <0.002 | | | | <0.002 | <0.002 | <0.002 |
| 5/18/2016 | | <0.0025 | | <0.002 | | | |
| 7/12/2016 | <0.002 | | | | | | <0.002 |
| 7/13/2016 | | 0.0028 | | 0.003 | 0.0015 (J) | 0.0024 (J) | |
| 9/13/2016 | <0.002 | | | | | <0.002 | <0.002 |
| 9/14/2016 | | 0.0014 (J) | | <0.002 | <0.002 | | |
| 11/19/2016 | <0.002 | <0.0025 | | <0.002 | 0.0011 (J) | <0.002 | <0.002 |
| 1/17/2017 | <0.002 | <0.0025 | | <0.002 | | | <0.002 |
| 1/18/2017 | | | | | <0.002 | <0.002 | |
| 3/22/2017 | <0.002 | | | | | | <0.002 |
| 3/23/2017 | | <0.0025 | | <0.002 | <0.002 | <0.002 | |
| 5/24/2017 | <0.002 | <0.0025 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 3/28/2018 | <0.002 | | <0.002 | <0.002 | <0.002 | 0.005 | |
| 3/29/2018 | | | | | | | <0.002 |
| 6/2/2018 | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| 11/8/2018 | <0.002 | | | <0.002 | <0.002 | | |
| 11/9/2018 | | | <0.002 | | | <0.002 | <0.002 |
| 2/11/2019 | <0.002 | | | | <0.002 | <0.002 | |
| 2/12/2019 | | | <0.002 | 0.00165 (J) | | | <0.002 |
| 4/17/2019 | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 | |
| 4/18/2019 | | | | | | | <0.002 |
| 9/27/2019 | 0.00286 | | 0.00284 | | | | 0.00206 (J) |
| 9/30/2019 | | | | <0.002 | <0.002 | <0.002 | |
| 2/21/2020 | <0.002 | | <0.002 | <0.002 | | | <0.002 |
| 2/22/2020 | | | | | <0.002 | <0.002 | |
| 10/30/2020 | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 | |
| 11/2/2020 | | | | | | | <0.002 |
| 3/17/2021 | | | | | <0.002 | <0.002 | |
| 3/26/2021 | <0.002 | | <0.002 | <0.002 | | | <0.002 |
| 10/5/2021 | <0.002 | | | | <0.002 | | <0.002 |
| 10/6/2021 | | | <0.002 | <0.002 | | <0.002 | |
| 3/16/2022 | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| 10/5/2022 | <0.002 | | | 0.0191 | <0.002 | | |
| 10/6/2022 | | | | | | <0.002 | <0.002 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|--------------|-------------|--------------|---------|--------------|-------------|--------------|
| 3/23/2016 | <0.0025 | 0.00048 (J) | | 0.0055 | 0.00094 (J) | <0.0005 | 0.0011 (J) |
| 5/17/2016 | 0.00099 (J) | | | | 0.0007 (J) | <0.0005 | 0.001 (J) |
| 5/18/2016 | | <0.0025 | | 0.0059 | | | |
| 7/12/2016 | 0.00093 (J) | | | | | | 0.00091 (J) |
| 7/13/2016 | | 0.001 (J) | | 0.0048 | 0.0016 (J) | 0.00042 (J) | |
| 9/13/2016 | 0.0011 (J) | | | | | <0.0005 | 0.001 (J) |
| 9/14/2016 | | 0.00051 (J) | | 0.0063 | 0.0011 (J) | | |
| 11/19/2016 | 0.001 (J) | 0.0005 (J) | | 0.0056 | 0.0012 (J) | <0.0005 | 0.00083 (J) |
| 1/17/2017 | 0.00088 (J) | 0.00049 (J) | | 0.0046 | | | 0.00091 (J) |
| 1/18/2017 | | | | | 0.0011 (J) | <0.0005 | |
| 3/22/2017 | 0.001 (J) | | | | | | 0.00098 (J) |
| 3/23/2017 | | 0.00057 (J) | | 0.0049 | 0.0011 (J) | <0.0005 | |
| 5/24/2017 | 0.00093 (J) | 0.00057 (J) | | 0.0052 | 0.0012 (J) | <0.0005 | 0.00098 (J) |
| 3/28/2018 | 0.00092 (J) | | 0.00098 (J) | 0.0063 | 0.00095 (J) | <0.0005 | |
| 3/29/2018 | | | | | | | 0.00063 (J) |
| 6/2/2018 | 0.001 (J) | | 0.0009 (J) | 0.0068 | 0.0012 (J) | <0.0005 | 0.00087 (J) |
| 11/8/2018 | 0.001 (J) | | | 0.0068 | 0.0011 (J) | | |
| 11/9/2018 | | | 0.00075 (J) | | | <0.0005 | 0.00076 (J) |
| 2/11/2019 | 0.000768 (J) | | | | 0.00093 (J) | <0.0005 | |
| 2/12/2019 | | | 0.000896 (J) | 0.00552 | | | 0.000661 (J) |
| 4/17/2019 | 0.000825 (J) | | 0.00106 (J) | 0.00603 | 0.00116 (J) | <0.0005 | |
| 4/18/2019 | | | | | | | 0.000705 (J) |
| 9/27/2019 | 0.000783 (J) | | 0.000885 (J) | | | | 0.00071 (J) |
| 9/30/2019 | | | | 0.0062 | 0.001 (J) | <0.0005 | |
| 2/21/2020 | 0.00073 (J) | | 0.000909 (J) | 0.00576 | | | 0.000634 (J) |
| 2/22/2020 | | | | | 0.000907 (J) | <0.0005 | |
| 4/14/2020 | 0.000853 (J) | | 0.000899 (J) | 0.00633 | 0.00105 (J) | <0.0005 | 0.000684 (J) |
| 10/30/2020 | 0.000924 (J) | | 0.000972 (J) | 0.00657 | 0.00102 (J) | <0.0005 | |
| 11/2/2020 | | | | | | | 0.000729 (J) |
| 3/17/2021 | | | | | 0.00208 | <0.0005 | |
| 3/26/2021 | 0.000961 | | 0.000744 | 0.00339 | | | 0.000995 |
| 10/5/2021 | 0.00143 | | | | 0.00187 | | 0.00112 |
| 10/6/2021 | | | <0.0005 | 0.00336 | | 0.000802 | |
| 3/16/2022 | 0.00177 | | 0.000658 | 0.00289 | 0.00182 | 0.000967 | 0.00141 |
| 10/5/2022 | 0.002 | | | 0.00821 | 0.00121 | | |
| 10/6/2022 | | | | | | 0.00143 | 0.00548 |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|--------------|------------|-------------|-------------|-------------|------------|-------------|
| 3/23/2016 | <5 | <5 | | <5 | <5 | 0.549 | <5 |
| 5/17/2016 | 0.813 | | | | <5 | 0.551 | <5 |
| 5/18/2016 | | 0.471 | | <5 | | | |
| 7/12/2016 | -0.00163 (U) | | | | | | 0.165 (U) |
| 7/13/2016 | | 0.401 | | 0.27 (U) | 0.0365 (U) | 0.859 | |
| 9/13/2016 | 0.41 (U) | | | | | 0.367 (U) | 0.341 (U) |
| 9/14/2016 | | -0.033 (U) | | -0.0909 (U) | 0.3 (U) | | |
| 11/19/2016 | 0.783 | 0.358 | | 0.416 | <5 (U) | <5 (U) | <5 (U) |
| 1/17/2017 | 0.613 | 0.799 | | 0.412 (U) | | | 0.124 (U) |
| 1/18/2017 | | | | | 0.235 (U) | 0.289 (U) | |
| 3/22/2017 | 0.241 (U) | | | | | | 0.0719 (U) |
| 3/23/2017 | | 0.182 (U) | | 0.0761 (U) | 0.168 (U) | 0.554 | |
| 5/24/2017 | 0.325 | 0.404 | | 0.0415 (U) | -0.0607 (U) | 0.831 | 0.441 |
| 3/28/2018 | 0.318 (U) | | 0.629 | 0.398 | 0.42 | 0.458 | |
| 3/29/2018 | | | | | | | 0.731 |
| 6/2/2018 | 0.222 (U) | | -0.478 (U) | -0.253 (U) | 0.0844 (U) | 0.226 (U) | 0.303 (U) |
| 11/8/2018 | 0.117 (U) | | | 0.343 (U) | 0.367 (U) | | |
| 11/9/2018 | | | 0.179 (U) | | | 0.298 (U) | 0.00226 (U) |
| 2/11/2019 | 0.493 | | | | 0.0402 (U) | 0.15 (U) | |
| 2/12/2019 | | | 0.432 | 0.581 | | | 0.094 (U) |
| 4/17/2019 | 0.729 | | 0.648 | 0.646 | 0.493 | 0.326 (U) | |
| 4/18/2019 | | | | | | | 0.48 |
| 9/27/2019 | 0.36 (U) | | 0.422 (U) | | | | 0.497 |
| 9/30/2019 | | | | 1 | 0.404 | | |
| 2/21/2020 | 0.268 (U) | | 0.23 (U) | 0.126 (U) | | | 0.375 |
| 2/22/2020 | | | | | 0.53 | 0.47 | |
| 4/14/2020 | 0.324 (U) | | 0.307 (U) | 0.338 | 0.0408 (U) | 0.376 (U) | 0.329 (U) |
| 10/30/2020 | 0.497 | | 1.02 | 0.485 | 0.344 | 0.528 | |
| 11/2/2020 | | | | | | | 0.535 |
| 3/17/2021 | | | | | 0.312 (U) | 0.0889 (U) | |
| 3/26/2021 | 0.804 | | 0.526 | 0.78 | | | 0.813 |
| 10/5/2021 | 1.53 | | | | 1.06 | | 0.814 |
| 10/6/2021 | | | 0.937 | 0.503 | | 0.931 | |
| 3/16/2022 | 1.13 | | 0.458 | 0.286 (U) | 0.314 (U) | 1.39 | 1.39 |
| 10/21/2022 | 0.946 | | | 1.29 | 0.562 (U) | 1.36 | 2.03 |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|------------|------------|------------|------------|
| 3/23/2016 | <0.1 | <0.1 | | <0.1 | 0.04 (J) | 0.06 (J) | <0.1 |
| 5/17/2016 | <0.1 | | | | 0.04 (J) | 0.07 (J) | <0.1 |
| 5/18/2016 | | <0.1 | | <0.1 | | | |
| 7/12/2016 | <0.1 | | | | | | <0.1 |
| 7/13/2016 | | <0.1 | | <0.1 | 0.05 (J) | 0.08 (J) | |
| 9/13/2016 | <0.1 | | | | | 0.06 (J) | <0.1 |
| 9/14/2016 | | <0.1 | | <0.1 | 0.04 (J) | | |
| 11/19/2016 | <0.1 | <0.1 | | <0.1 | 0.04 (J) | 0.06 (J) | <0.1 |
| 1/17/2017 | <0.1 | <0.1 | | <0.1 | | | <0.1 |
| 1/18/2017 | | | | | <0.1 | 0.05 (J) | |
| 3/22/2017 | <0.1 | | | | | | <0.1 |
| 3/23/2017 | | <0.1 | | <0.1 | <0.1 | 0.05 (J) | |
| 5/24/2017 | <0.1 | <0.1 | | <0.1 | 0.04 (J) | 0.06 (J) | <0.1 (D) |
| 10/16/2017 | <0.1 | <0.1 | | <0.1 | <0.1 | 0.06 (J) | <0.1 |
| 3/28/2018 | <0.1 | | <0.1 | <0.1 | 0.04 (J) | 0.06 (J) | |
| 3/29/2018 | | | | | | | <0.1 |
| 6/2/2018 | <0.1 | | <0.1 | <0.1 | 0.05 (J) | 0.06 (J) | <0.1 |
| 11/8/2018 | <0.1 | | | <0.1 | 0.05 (J) | | |
| 11/9/2018 | | | <0.1 | | | 0.06 (J) | <0.1 |
| 2/11/2019 | <0.1 | | | | <0.1 | 0.0368 (J) | |
| 2/12/2019 | | | <0.1 | <0.1 | | | <0.1 |
| 4/17/2019 | <0.1 | | <0.1 | <0.1 | 0.033 (J) | 0.0421 (J) | |
| 4/18/2019 | | | | | | | <0.1 |
| 9/27/2019 | <0.1 | | 0.0313 (J) | | | | <0.1 |
| 9/30/2019 | | | | <0.1 | <0.1 | 0.045 (J) | |
| 2/21/2020 | <0.1 | | <0.1 | <0.1 | | | <0.1 |
| 2/22/2020 | | | | | 0.0317 (J) | 0.0434 (J) | |
| 4/14/2020 | 0.0532 (J) | | 0.0537 (J) | 0.034 (J) | 0.0508 (J) | 0.059 (J) | 0.0415 (J) |
| 10/30/2020 | <0.1 | | <0.1 | <0.1 | <0.1 | <0.1 | |
| 11/2/2020 | | | | | | | <0.1 |
| 3/17/2021 | | | | | 0.0544 (J) | 0.0575 (J) | |
| 3/26/2021 | <0.1 | | <0.1 | <0.1 | | | <0.1 |
| 10/5/2021 | 0.0499 (J) | | | | 0.0505 (J) | | <0.1 |
| 10/6/2021 | | | <0.1 | <0.1 | | 0.0725 (J) | |
| 3/16/2022 | <0.1 | | <0.1 | 0.0307 (J) | 0.0462 (J) | 0.176 | 0.0266 (J) |
| 10/5/2022 | <0.1 | | | <0.1 | 0.0322 (J) | | |
| 10/6/2022 | | | | | | 0.0972 (J) | <0.1 |

Time Series

Constituent: Lead (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|--------------|--------------|--------------|--------------|
| 3/23/2016 | <0.001 | <0.0013 | | <0.001 | 0.00039 (J) | <0.001 | <0.001 |
| 5/17/2016 | <0.001 | | | | <0.001 | <0.001 | <0.001 |
| 5/18/2016 | | <0.0013 | | <0.001 | | | |
| 7/12/2016 | <0.001 | | | | | | <0.001 |
| 7/13/2016 | | <0.0013 | | <0.001 | <0.001 | <0.001 | |
| 9/13/2016 | <0.001 | | | | | <0.001 | <0.001 |
| 9/14/2016 | | <0.0013 | | 0.00056 (J) | <0.001 | | |
| 11/19/2016 | <0.001 | <0.0013 | | <0.001 | 0.00042 (J) | <0.001 | <0.001 |
| 1/17/2017 | <0.001 | <0.0013 | | <0.001 | | | <0.001 |
| 1/18/2017 | | | | | <0.001 | <0.001 | |
| 3/22/2017 | <0.001 | | | | | | <0.001 |
| 3/23/2017 | | <0.0013 | | 0.00038 (J) | <0.001 | <0.001 | |
| 5/24/2017 | <0.001 | <0.0013 | | 0.00036 (J) | <0.001 | <0.001 | <0.001 |
| 3/28/2018 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 3/29/2018 | | | | | | | <0.001 |
| 11/8/2018 | <0.001 | | | <0.001 | <0.001 | | |
| 11/9/2018 | | | <0.001 | | | <0.001 | <0.001 |
| 2/11/2019 | <0.001 | | | | <0.001 | <0.001 | |
| 2/12/2019 | | | <0.001 | 0.000139 (J) | | | <0.001 |
| 4/17/2019 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 4/18/2019 | | | | | | | <0.001 |
| 9/27/2019 | <0.001 | | <0.001 | | | | 0.000129 (J) |
| 9/30/2019 | | | | 0.000322 (J) | 0.000191 (J) | 0.000152 (J) | |
| 2/21/2020 | <0.001 | | <0.001 | 0.00015 (J) | | | <0.001 |
| 2/22/2020 | | | | | <0.001 | <0.001 | |
| 4/14/2020 | <0.001 | | <0.001 | 0.000236 (J) | <0.001 | <0.001 | <0.001 |
| 10/30/2020 | <0.001 | | <0.001 | 0.000136 (J) | <0.001 | <0.001 | |
| 11/2/2020 | | | | | | | <0.001 |
| 3/17/2021 | | | | | 0.000153 (J) | <0.001 | |
| 3/26/2021 | <0.001 | | <0.001 | 0.000145 (J) | | | <0.001 |
| 10/5/2021 | <0.001 | | | | <0.001 | | <0.001 |
| 10/6/2021 | | | <0.001 | <0.001 | | <0.001 | |
| 3/16/2022 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 10/5/2022 | <0.001 | | | <0.001 | <0.001 | | |
| 10/6/2022 | | | | | | <0.001 | <0.001 |

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|-------------|------------|-------------|-------------|---------|--------|-------------|
| 3/23/2016 | <0.005 | <0.005 | | <0.005 | 0.044 | 0.17 | <0.005 |
| 5/17/2016 | 0.0037 (J) | | | | 0.028 | 0.2 | <0.005 |
| 5/18/2016 | | <0.005 | | <0.005 | | | |
| 7/12/2016 | 0.012 (o) | | | | | | <0.005 |
| 7/13/2016 | | <0.005 | | <0.005 | 0.026 | 0.17 | |
| 9/13/2016 | <0.005 | | | | | 0.17 | <0.005 |
| 9/14/2016 | | <0.005 | | <0.005 | 0.026 | | |
| 11/19/2016 | <0.005 | <0.005 | | <0.005 | 0.026 | 0.18 | 0.0035 (J) |
| 1/17/2017 | <0.005 | <0.005 | | <0.005 | | | <0.005 |
| 1/18/2017 | | | | | 0.027 | 0.2 | |
| 3/22/2017 | <0.005 | | | | | | <0.005 |
| 3/23/2017 | | <0.005 | | <0.005 | 0.024 | 0.19 | |
| 5/24/2017 | <0.005 | <0.005 | | <0.005 | 0.027 | 0.21 | <0.005 |
| 3/28/2018 | <0.005 | | 0.0026 (J) | 0.0023 (J) | 0.021 | 0.23 | |
| 3/29/2018 | | | | | | | 0.0026 (J) |
| 6/2/2018 | 0.0017 (J) | | 0.0021 (J) | 0.002 (J) | 0.022 | 0.19 | 0.0029 (J) |
| 11/8/2018 | 0.0023 (J) | | | 0.0024 (J) | 0.025 | | |
| 11/9/2018 | | | 0.0024 (J) | | | 0.18 | 0.0027 (J) |
| 2/11/2019 | <0.005 | | | | 0.0229 | 0.161 | |
| 2/12/2019 | | | <0.005 | <0.005 | | | <0.005 |
| 4/17/2019 | 0.00229 (J) | | 0.00191 (J) | 0.00197 (J) | 0.0236 | 0.174 | |
| 4/18/2019 | | | | | | | 0.00238 (J) |
| 9/27/2019 | 0.00346 (J) | | <0.005 | | | | 0.00375 (J) |
| 9/30/2019 | | | | 0.00687 | 0.0249 | 0.166 | |
| 2/21/2020 | <0.005 | | <0.005 | <0.005 | | | <0.005 |
| 2/22/2020 | | | | | 0.0211 | 0.169 | |
| 4/14/2020 | 0.00505 | | <0.005 | <0.005 | 0.0224 | 0.192 | <0.005 |
| 10/30/2020 | <0.005 | | <0.005 | <0.005 | 0.0267 | 0.194 | |
| 11/2/2020 | | | | | | | <0.005 |
| 3/17/2021 | | | | | 0.0174 | 0.12 | |
| 3/26/2021 | <0.005 | | <0.005 | <0.005 | | | <0.005 |
| 10/5/2021 | <0.005 | | | | 0.0127 | | 0.0045 (J) |
| 10/6/2021 | | | <0.005 | <0.005 | | 0.0994 | |
| 3/16/2022 | 0.00171 (J) | | 0.00165 (J) | 0.0038 (J) | 0.0112 | 0.0629 | 0.00437 (J) |
| 10/5/2022 | <0.005 | | | 0.00322 (J) | 0.00676 | | |
| 10/6/2022 | | | | | | 0.0534 | 0.0123 |

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 3/23/2016 | <0.0002 | <0.0002 | | 8.4E-05 (JB) | 7.3E-05 (JB) | 7.4E-05 (JB) | 7.1E-05 (JB) |
| 5/17/2016 | <0.0002 | | | | <0.0002 | <0.0002 | <0.0002 |
| 5/18/2016 | | <0.0002 | | <0.0002 | | | |
| 7/12/2016 | <0.0002 | | | | | | <0.0002 |
| 7/13/2016 | | <0.0002 | | <0.0002 | <0.0002 | <0.0002 | |
| 9/13/2016 | <0.0002 | | | | | <0.0002 | <0.0002 |
| 9/14/2016 | | <0.0002 | | <0.0002 | <0.0002 | | |
| 11/19/2016 | <0.0002 | <0.0002 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 1/17/2017 | <0.0002 | <0.0002 | | <0.0002 | | | <0.0002 |
| 1/18/2017 | | | | | <0.0002 | <0.0002 | |
| 3/22/2017 | 0.00011 (J) | | | | | | <0.0002 |
| 3/23/2017 | | 0.00013 (J) | | 0.00013 (J) | 0.00013 (J) | <0.0002 | |
| 5/24/2017 | <0.0002 | <0.0002 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 3/28/2018 | <0.0002 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 3/29/2018 | | | | | | | <0.0002 |
| 2/11/2019 | <0.0002 | | | | <0.0002 | <0.0002 | |
| 2/12/2019 | | | <0.0002 | <0.0002 | | | <0.0002 |
| 4/17/2019 | <0.0002 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 4/18/2019 | | | | | | | <0.0002 |
| 2/21/2020 | <0.0002 | | <0.0002 | <0.0002 | | | <0.0002 |
| 2/22/2020 | | | | | <0.0002 | <0.0002 | |
| 10/30/2020 | <0.0002 | | <0.0002 | 0.000497 | <0.0002 | <0.0002 | |
| 11/2/2020 | | | | | | | <0.0002 |
| 3/17/2021 | | | | | <0.0002 | <0.0002 | |
| 3/26/2021 | <0.0002 | | <0.0002 | <0.0002 | | | 0.000235 |
| 10/5/2021 | <0.0002 | | | | <0.0002 | | 0.000151 (J) |
| 10/6/2021 | | | <0.0002 | <0.0002 | | <0.0002 | |
| 3/16/2022 | <0.0002 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.0012 |
| 10/5/2022 | <0.0002 | | | <0.0002 | <0.0002 | | |
| 10/6/2022 | | | | | | <0.0002 | <0.0002 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|-------------|-------------|--------|--------------|--------------|------------|
| 3/23/2016 | <0.005 | 0.0019 (J) | | <0.005 | <0.015 | 0.0026 (J) | <0.005 |
| 5/17/2016 | <0.005 | | | | <0.015 | 0.0011 (J) | <0.005 |
| 5/18/2016 | | 0.00096 (J) | | <0.005 | | | |
| 7/12/2016 | <0.005 | | | | | | <0.005 |
| 7/13/2016 | | 0.0017 (J) | | <0.005 | <0.015 | 0.0079 (J) | |
| 9/13/2016 | <0.005 | | | | | 0.0038 (J) | <0.005 |
| 9/14/2016 | | 0.0018 (J) | | <0.005 | <0.015 | | |
| 11/19/2016 | <0.005 | <0.015 | | <0.005 | <0.015 | 0.0014 (J) | <0.005 |
| 1/17/2017 | <0.005 | <0.015 | | <0.005 | | | <0.005 |
| 1/18/2017 | | | | | <0.015 | 0.001 (J) | |
| 3/22/2017 | <0.005 | | | | | | 0.0038 (J) |
| 3/23/2017 | | <0.015 | | <0.005 | <0.015 | <0.015 | |
| 5/24/2017 | <0.005 | <0.015 | | <0.005 | <0.015 | 0.0014 (J) | <0.005 |
| 3/28/2018 | <0.005 | | <0.005 | <0.005 | <0.015 | <0.015 | |
| 3/29/2018 | | | | | | | <0.005 |
| 11/8/2018 | <0.005 | | | <0.005 | <0.015 | | |
| 11/9/2018 | | | <0.005 | | | <0.015 | <0.005 |
| 2/11/2019 | <0.005 | | | | <0.015 | <0.015 | |
| 2/12/2019 | | | <0.005 | <0.005 | | | <0.005 |
| 4/17/2019 | <0.005 | | <0.005 | <0.005 | <0.015 | <0.015 | |
| 4/18/2019 | | | | | | | <0.005 |
| 2/21/2020 | <0.005 | | <0.005 | <0.005 | | | <0.005 |
| 2/22/2020 | | | | | 0.000616 (J) | 0.000627 (J) | |
| 4/14/2020 | <0.005 | | <0.005 | <0.005 | <0.015 | 0.000747 (J) | <0.005 |
| 10/30/2020 | <0.005 | | <0.005 | <0.005 | <0.015 | <0.015 | |
| 11/2/2020 | | | | | | | <0.005 |
| 3/17/2021 | | | | | 0.0032 (J) | 0.00328 (J) | |
| 3/26/2021 | <0.005 | | <0.005 | <0.005 | | | <0.005 |
| 10/5/2021 | <0.005 | | | | 0.00109 (J) | | <0.005 |
| 10/6/2021 | | | <0.005 | <0.005 | | 0.00364 (J) | |
| 3/16/2022 | <0.005 | | <0.005 | <0.005 | 0.000916 (J) | 0.00533 | <0.005 |
| 10/5/2022 | <0.005 | | | <0.005 | 0.000939 (J) | | |
| 10/6/2022 | | | | | | 0.00424 (J) | <0.005 |

Time Series

Constituent: pH (SU) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016 | 5.12 | 5.52 | | 5.05 | 5.38 | 6.64 | 4.89 |
| 5/17/2016 | 5.23 | | | | 5.32 | 6.52 | 4.92 |
| 5/18/2016 | | 5.24 | | 4.86 | | | |
| 7/12/2016 | 5.77 | | | | | | 4.93 |
| 7/13/2016 | | 5.17 | | 5.11 | 5.31 | 6.63 | |
| 9/13/2016 | 4.98 | | | | | 6.46 | 4.76 |
| 9/14/2016 | | 5.04 | | 4.84 | 5.21 | | |
| 11/19/2016 | 4.82 | 4.88 | | 4.74 | 5.12 | 6.38 | 4.56 |
| 1/17/2017 | 5.04 | 5.04 | | 4.95 | | | 4.86 |
| 1/18/2017 | | | | | 5.22 | 6.47 | |
| 3/22/2017 | 4.73 | | | | | | 4.66 |
| 3/23/2017 | | 4.66 | | 4.66 | 5.01 | 6.19 | |
| 5/24/2017 | 5.01 | 4.93 | | 4.86 | 5.19 | 6.34 | 4.83 |
| 10/16/2017 | 4.59 | 4.65 | | 4.47 | 4.96 | 6.23 | 4.53 |
| 3/28/2018 | 4.87 | | 5.39 | 4.93 | 5.23 | 6.22 | |
| 3/29/2018 | | | | | | | 4.87 |
| 6/2/2018 | 4.92 | | 5.06 | 4.83 | 5.22 | 6.24 | 4.87 |
| 11/8/2018 | 5 | | | 4.83 | 5.29 | | |
| 11/9/2018 | | | 4.92 | | | 6.27 | 4.92 |
| 2/11/2019 | 4.7 | | | | 5 | 6.08 | |
| 2/12/2019 | | | 4.86 | 4.65 | | | 4.79 |
| 4/17/2019 | 4.9 | | 4.79 | 4.71 | 5.13 | 6.14 | |
| 4/18/2019 | | | | | | | 4.9 |
| 2/21/2020 | 4.86 | | 4.73 | 4.55 | | | 4.8 |
| 2/22/2020 | | | | | 5.3 | 6.13 | |
| 4/14/2020 | 5.23 | | 4.87 | 4.7 | 5.45 | 6.26 | 4.94 |
| 10/30/2020 | 5 | | 4.87 | 4.8 | 5.32 | 6.19 | |
| 11/2/2020 | | | | | | | 4.92 |
| 3/17/2021 | | | | | 5.62 | 6.14 | |
| 3/26/2021 | 4.86 | | 4.7 | 4.54 | | | 4.67 |
| 10/5/2021 | 5 | | | | 5.72 | | 4.84 |
| 10/6/2021 | | | 4.77 | 4.63 | | 6.03 | |
| 3/16/2022 | 4.92 | | 4.91 | 4.64 | 5.56 | 6.2 | 4.75 |
| 10/5/2022 | 4.91 | | | 4.51 | 5.57 | | |
| 10/6/2022 | | | | | | 6.27 | 4.71 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|-------------|-------------|-------------|-------------|--------|-------------|-------------|
| 3/23/2016 | <0.005 | 0.00041 (J) | | 0.00033 (J) | <0.005 | <0.005 | <0.005 |
| 5/17/2016 | <0.005 | | | | <0.005 | <0.005 | 0.00026 (J) |
| 5/18/2016 | | <0.0013 | | <0.005 | | | |
| 7/12/2016 | <0.005 | | | | | | <0.005 |
| 7/13/2016 | | <0.0013 | | 0.00041 (J) | <0.005 | <0.005 | |
| 9/13/2016 | <0.005 | | | | | <0.005 | 0.00031 (J) |
| 9/14/2016 | | <0.0013 | | 0.00079 (J) | <0.005 | | |
| 11/19/2016 | <0.005 | <0.0013 | | <0.005 | <0.005 | <0.005 | <0.005 |
| 1/17/2017 | <0.005 | <0.0013 | | <0.005 | | | <0.005 |
| 1/18/2017 | | | | | <0.005 | <0.005 | |
| 3/22/2017 | <0.005 | | | | | | 0.0021 |
| 3/23/2017 | | <0.0013 | | <0.005 | <0.005 | <0.005 | |
| 5/24/2017 | <0.005 | 0.00026 (J) | | 0.00028 (J) | <0.005 | 0.00033 (J) | 0.00026 (J) |
| 3/28/2018 | <0.005 | | 0.00024 (J) | 0.00038 (J) | <0.005 | <0.005 | |
| 3/29/2018 | | | | | | | 0.00036 (J) |
| 6/2/2018 | 0.00064 (J) | | <0.005 | 0.00031 (J) | <0.005 | <0.005 | <0.005 |
| 11/8/2018 | 0.0025 | | | 0.00088 (J) | <0.005 | | |
| 11/9/2018 | | | 0.00098 (J) | | | <0.005 | <0.005 |
| 2/11/2019 | <0.005 | | | | <0.005 | <0.005 | |
| 2/12/2019 | | | <0.005 | <0.005 | | | <0.005 |
| 4/17/2019 | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 4/18/2019 | | | | | | | <0.005 |
| 2/21/2020 | <0.005 | | <0.005 | <0.005 | | | <0.005 |
| 2/22/2020 | | | | | <0.005 | <0.005 | |
| 10/30/2020 | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 11/2/2020 | | | | | | | <0.005 |
| 3/17/2021 | | | | | <0.005 | <0.005 | |
| 3/26/2021 | <0.005 | | <0.005 | <0.005 | | | <0.005 |
| 10/5/2021 | <0.005 | | | | <0.005 | | <0.005 |
| 10/6/2021 | | | <0.005 | <0.005 | | <0.005 | |
| 3/16/2022 | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 10/5/2022 | <0.005 | | | <0.005 | <0.005 | | |
| 10/6/2022 | | | | | | <0.005 | <0.005 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|---------|---------|---------|---------|
| 3/23/2016 | <5 | <5 | | <5 | 2.3 (J) | 4.5 (J) | <5 |
| 5/17/2016 | <5 | | | | 2.3 (J) | 17 | <5 |
| 5/18/2016 | | <5 | | <5 | | | |
| 7/12/2016 | <5 | | | | | | <5 |
| 7/13/2016 | | <5 | | 1.5 (J) | 2.4 (J) | 15 | |
| 9/13/2016 | <5 | | | | | 3.4 (J) | <5 |
| 9/14/2016 | | <5 | | 1.6 (J) | 2.4 (J) | | |
| 11/19/2016 | <5 | <5 | | 1.8 (J) | 3.3 (J) | 3.5 (J) | 1.5 (J) |
| 1/17/2017 | <5 | <5 | | <5 | | | <5 |
| 1/18/2017 | | | | | 2.3 (J) | 3.2 (J) | |
| 3/22/2017 | <5 | | | | | | 1.9 (J) |
| 3/23/2017 | | 1.8 (J) | | 2.3 (J) | 3.2 (J) | 3.7 (J) | |
| 5/24/2017 | <5 | 1.5 (J) | | 1.6 (J) | 2.4 (J) | 8.8 | <5 |
| 10/16/2017 | <5 | <5 | | <5 | 2 (J) | 4 (J) | <5 |
| 3/28/2018 | <5 | | 1.7 (J) | 1.6 (J) | 2.4 (J) | 3.3 (J) | |
| 3/29/2018 | | | | | | | <5 |
| 6/2/2018 | 1.9 (J) | | 3 (J) | 2.9 (J) | 3.7 (J) | 4.3 (J) | 2.8 (J) |
| 11/8/2018 | <5 | | | 1.6 (J) | 2.7 (J) | | |
| 11/9/2018 | | | <5 | | | 2.3 (J) | <5 |
| 2/11/2019 | 0.774 (J) | | | | 2.5 | 2.64 | |
| 2/12/2019 | | | 1.97 | 1.97 | | | 1.35 |
| 4/17/2019 | 1.43 | | 2.82 | 2.5 | 3.15 | 3.27 | |
| 4/18/2019 | | | | | | | 1.82 |
| 9/27/2019 | 1.03 | | 2.19 | | | | 1.22 |
| 9/30/2019 | | | | 1.64 | 2.34 | 2.82 | |
| 4/14/2020 | 0.928 (J) | | 2.71 | 1.62 | 2.99 | 4.2 | 1.18 |
| 10/30/2020 | 0.91 (J) | | 3.97 | 1.44 | 2.84 | 4.76 | |
| 11/2/2020 | | | | | | | 1.08 |
| 3/17/2021 | | | | | 4.35 | 4.07 | |
| 3/26/2021 | 1.49 | | 2.04 | 3.25 | | | 2 |
| 10/5/2021 | 1.13 | | | | 5.02 | | 2.55 |
| 10/6/2021 | | | 5.37 | 5.07 | | 14.5 | |
| 3/16/2022 | 3.6 | | 5.37 | 6.85 | 5.64 | 23.1 | 5.93 |
| 10/5/2022 | 1.34 | | | 6.07 | 4.12 | | |
| 10/6/2022 | | | | | | 19.5 | 61.4 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|--------------|--------------|--------|--------|--------------|
| 3/23/2016 | <0.001 | <0.0005 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 5/17/2016 | <0.001 | | | | <0.001 | <0.001 | <0.001 |
| 5/18/2016 | | <0.0005 | | <0.001 | | | |
| 7/12/2016 | <0.001 | | | | | | <0.001 |
| 7/13/2016 | | <0.0005 | | <0.001 | <0.001 | <0.001 | |
| 9/13/2016 | <0.001 | | | | | <0.001 | <0.001 |
| 9/14/2016 | | <0.0005 | | 9.5E-05 (J) | <0.001 | | |
| 11/19/2016 | <0.001 | <0.0005 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 1/17/2017 | <0.001 | <0.0005 | | <0.001 | | | <0.001 |
| 1/18/2017 | | | | | <0.001 | <0.001 | |
| 3/22/2017 | <0.001 | | | | | | <0.001 |
| 3/23/2017 | | <0.0005 | | <0.001 | <0.001 | <0.001 | |
| 5/24/2017 | <0.001 | <0.0005 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 3/28/2018 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 3/29/2018 | | | | | | | <0.001 |
| 11/8/2018 | <0.001 | | | 8.5E-05 (J) | <0.001 | | |
| 11/9/2018 | | | <0.001 | | | <0.001 | <0.001 |
| 2/11/2019 | <0.001 | | | | <0.001 | <0.001 | |
| 2/12/2019 | | | <0.001 | <0.001 | | | <0.001 |
| 4/17/2019 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 4/18/2019 | | | | | | | <0.001 |
| 2/21/2020 | <0.001 | | 0.000486 (J) | 0.000276 (J) | | | <0.001 |
| 2/22/2020 | | | | | <0.001 | <0.001 | |
| 4/14/2020 | <0.001 | | <0.001 | 0.000158 (J) | <0.001 | <0.001 | <0.001 |
| 10/30/2020 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 11/2/2020 | | | | | | | <0.001 |
| 3/17/2021 | | | | | <0.001 | <0.001 | |
| 3/26/2021 | <0.001 | | <0.001 | <0.001 | | | <0.001 |
| 10/5/2021 | <0.001 | | | | <0.001 | | 0.000153 (J) |
| 10/6/2021 | | | <0.001 | <0.001 | | <0.001 | |
| 3/16/2022 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 10/5/2022 | <0.001 | | | <0.001 | <0.001 | | |
| 10/6/2022 | | | | | | <0.001 | <0.001 |

Time Series

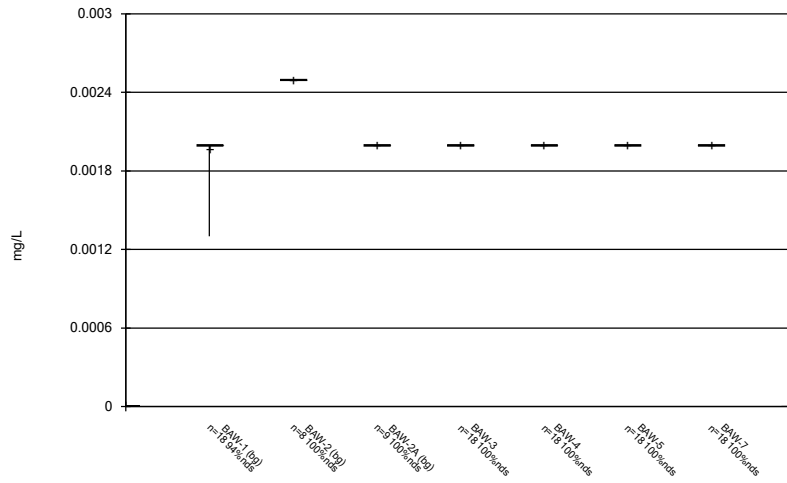
Constituent: T Total Dissolved Solids (mg/L) Analysis Run 12/7/2022 12:13 PM View: Descriptive

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-2 (bg) | BAW-2A (bg) | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|-------------|-------|-------|-------|-------|
| 3/23/2016 | 20 | 30 | | 30 | 46 | 88 | 22 |
| 5/17/2016 | 24 | | | | 52 | 110 | 30 |
| 5/18/2016 | | 20 | | 20 | | | |
| 7/12/2016 | 24 | | | | | | 26 |
| 7/13/2016 | | 40 | | 40 | 36 | 120 | |
| 9/13/2016 | 18 | | | | | 92 | 28 |
| 9/14/2016 | | 10 | | <10 | 38 | | |
| 11/19/2016 | 20 | 28 | | 22 | 50 | 94 | 38 |
| 1/17/2017 | <10 | 14 | | 14 | | | 10 |
| 1/18/2017 | | | | | 18 | 68 | |
| 3/22/2017 | 12 | | | | | | 22 |
| 3/23/2017 | | 16 | | 28 | 32 | 80 | |
| 5/24/2017 | 16 (D) | 12 | | 18 | 32 | 90 | 22 |
| 10/16/2017 | 58 | 50 | | 36 | 64 | 110 | 34 |
| 3/28/2018 | 18 | | 30 | 36 | 56 | 86 | |
| 3/29/2018 | | | | | | | 50 |
| 6/2/2018 | 6 | | 26 | 6 | 22 | 72 | <10 |
| 11/8/2018 | 12 | | | 34 | 170 | | |
| 11/9/2018 | | | 94 | | | 38 | 20 |
| 2/11/2019 | <10 | | | | 23 | 60 | |
| 2/12/2019 | | | 22 | 12 | | | <10 |
| 4/17/2019 | 16 | | 22 | 27 | 37 | 82 | |
| 4/18/2019 | | | | | | | 39 |
| 9/27/2019 | 26 | | 25 | | | | <10 |
| 9/30/2019 | | | | <10 | <10 | 55 | |
| 4/14/2020 | 25 | | 38 | 31 | 30 | 77 | 24 |
| 10/30/2020 | 34 | | 48 | 40 | 40 | 88 | |
| 11/2/2020 | | | | | | | 28 |
| 3/17/2021 | | | | | 44 | 79 | |
| 3/26/2021 | 24 | | 24 | 37 | | | 38 |
| 10/5/2021 | 26 | | | | 75 | | 45 |
| 10/6/2021 | | | 61 | 30 | | 114 | |
| 3/16/2022 | 30 | | 26 | 26 | 66 | 133 | 37 |
| 10/5/2022 | 30 | | | 32 | 52 | | |
| 10/6/2022 | | | | | | 155 | 135 |

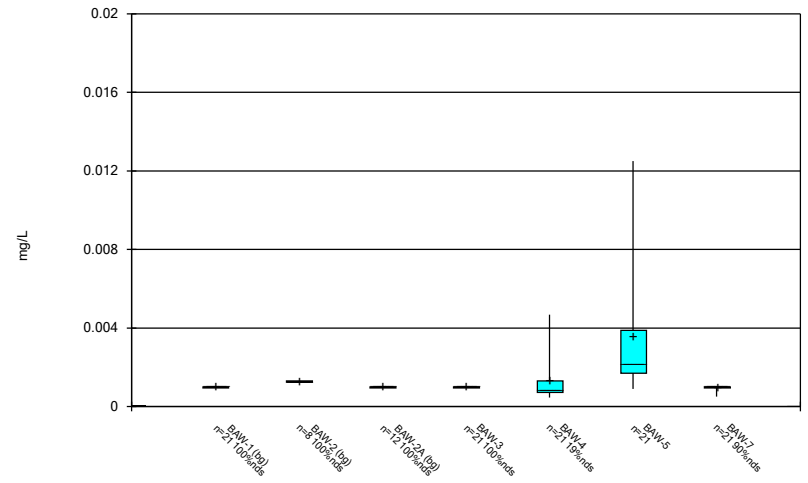
FIGURE B.

Box & Whiskers Plot



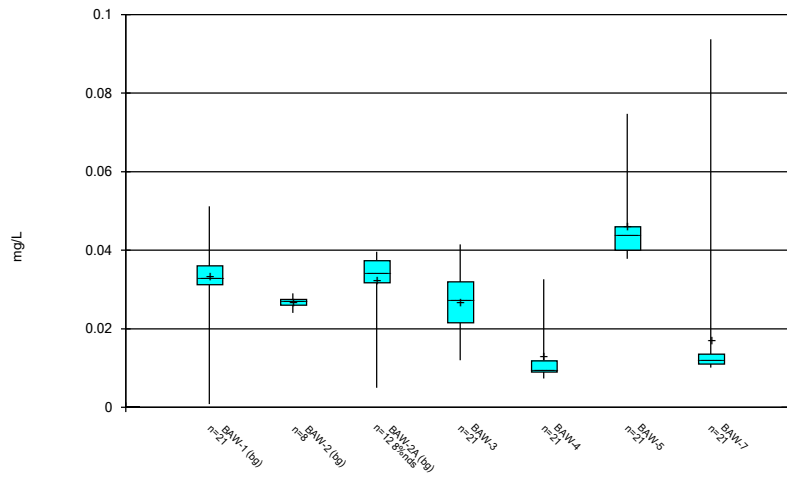
Constituent: Antimony Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



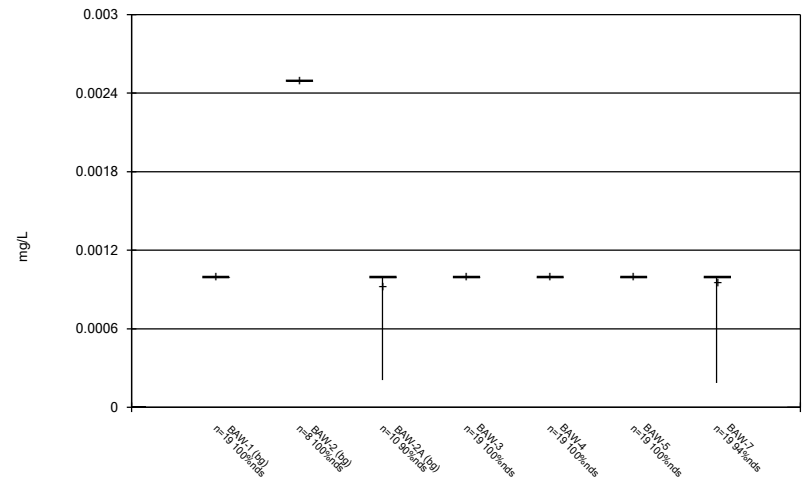
Constituent: Arsenic Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



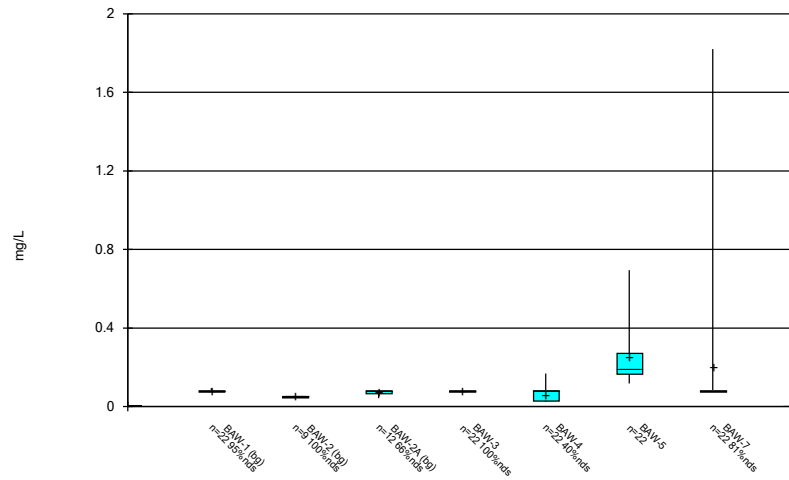
Constituent: Barium Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



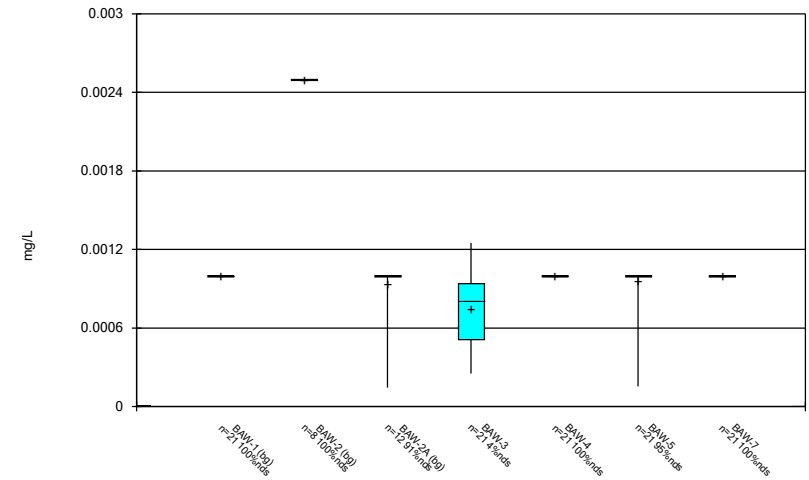
Constituent: Beryllium Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



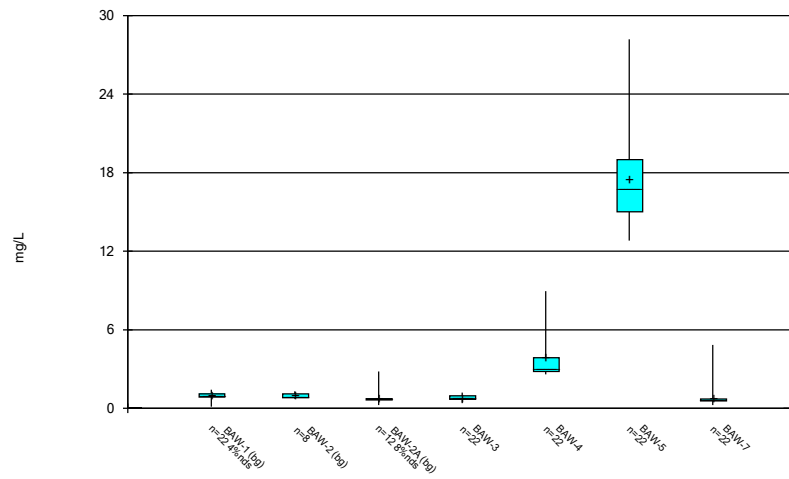
Constituent: Boron Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



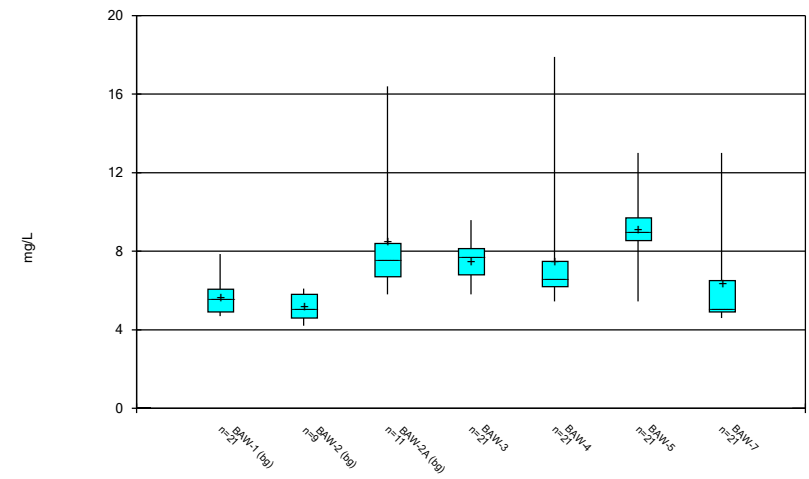
Constituent: Cadmium Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



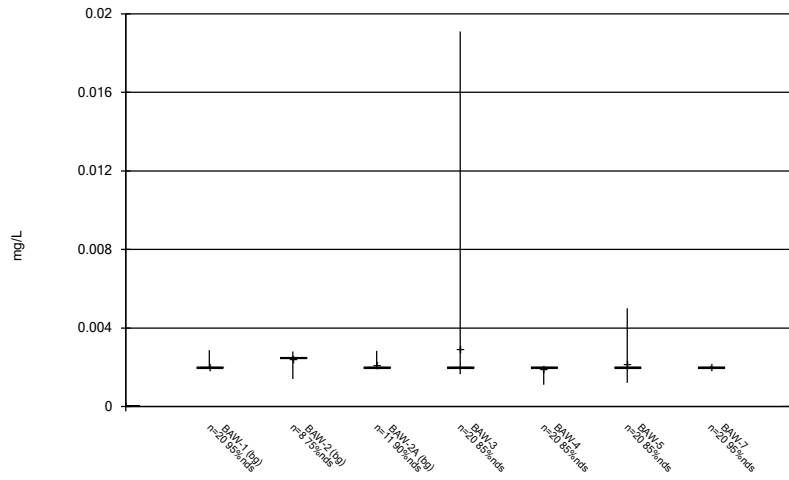
Constituent: Calcium Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



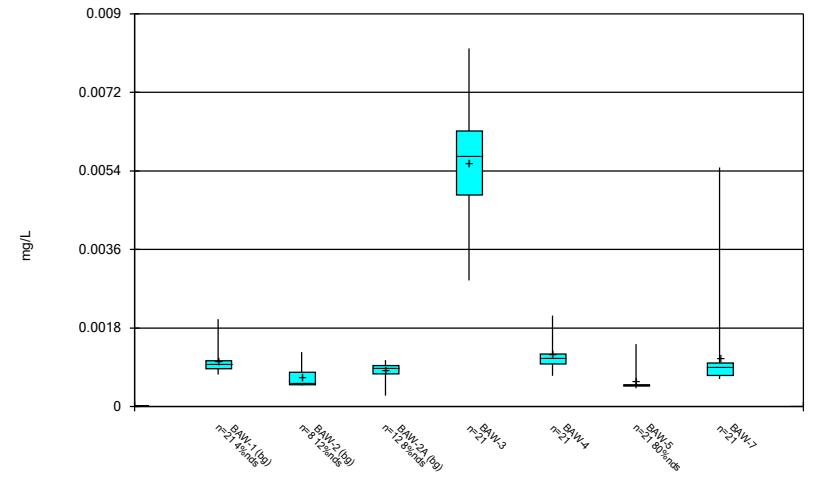
Constituent: Chloride Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



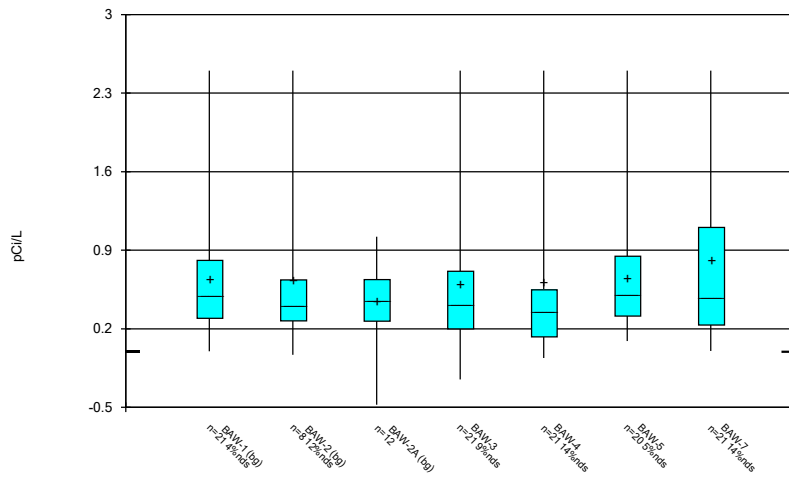
Constituent: Chromium Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



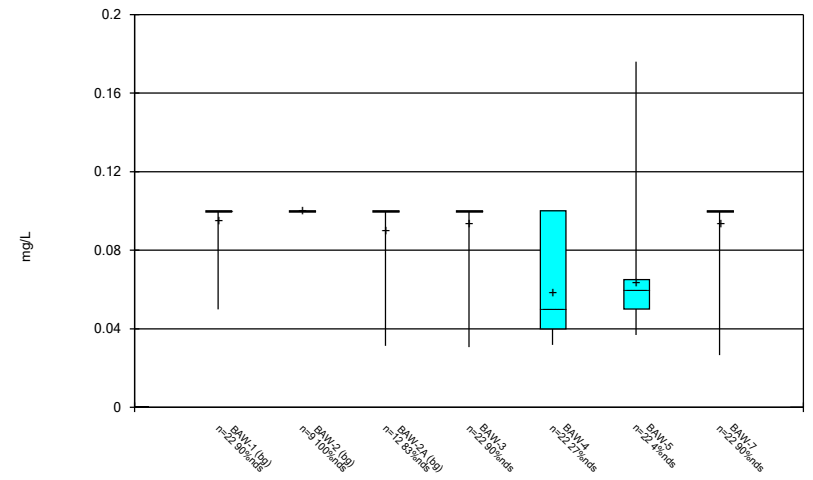
Constituent: Cobalt Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



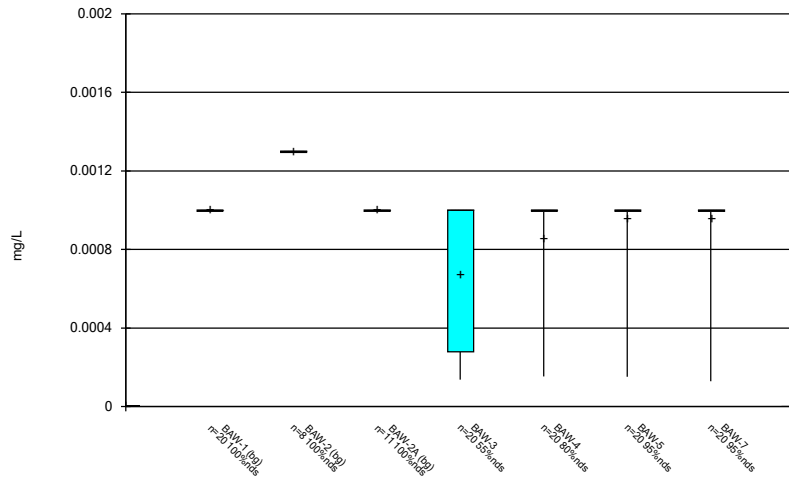
Constituent: Combined Radium 226 + 228 Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



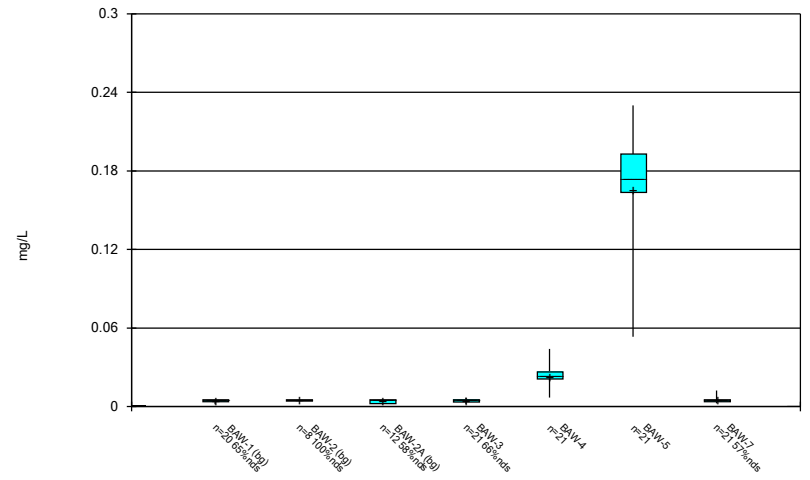
Constituent: Fluoride Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



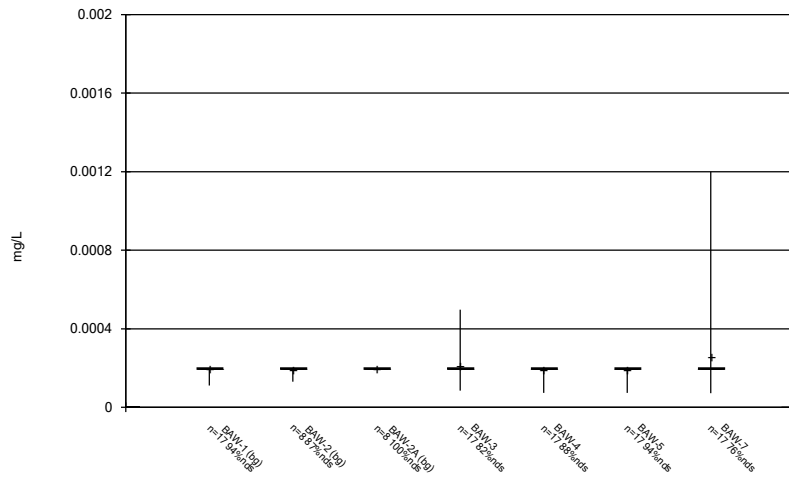
Constituent: Lead Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



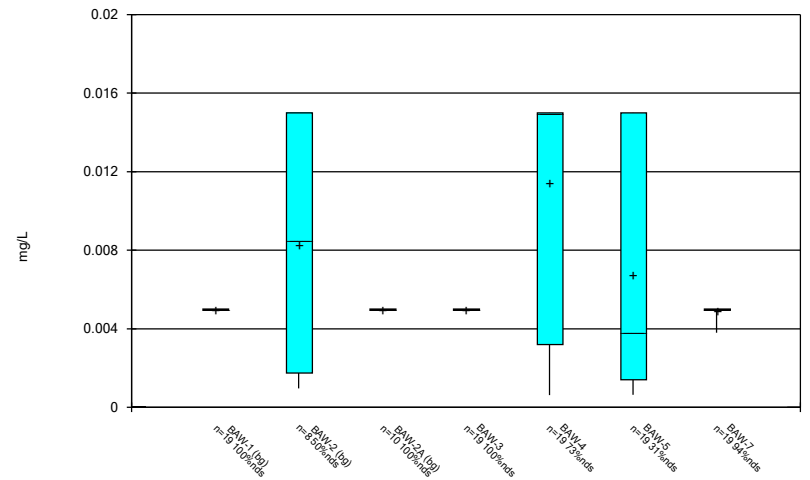
Constituent: Lithium Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



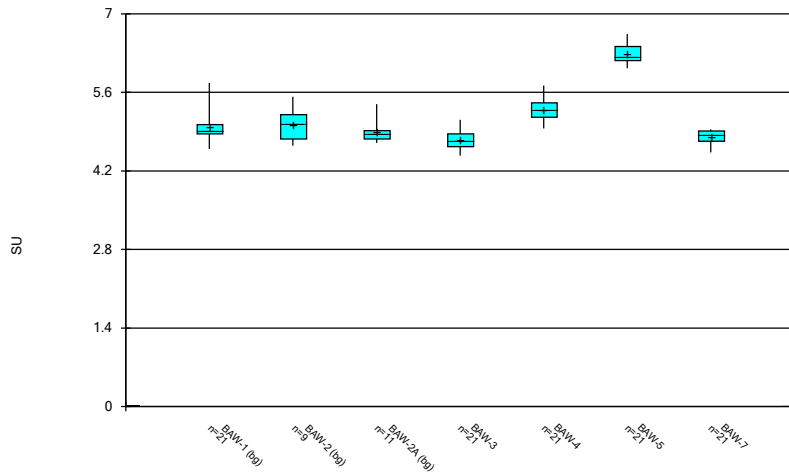
Constituent: Mercury Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



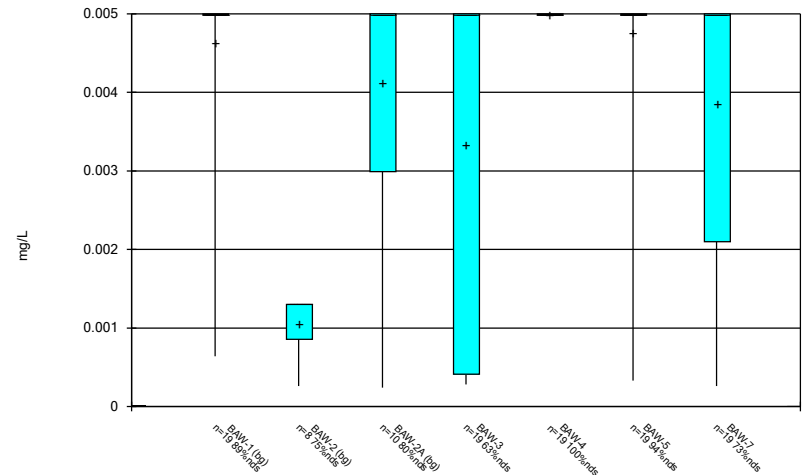
Constituent: Molybdenum Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



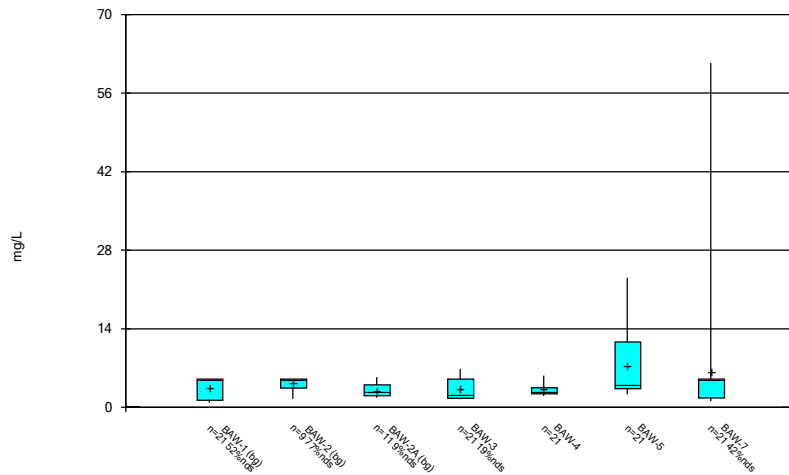
Constituent: pH Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



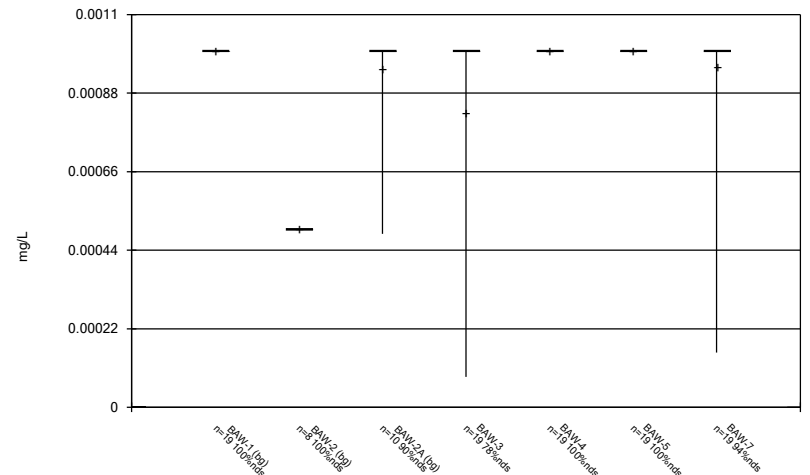
Constituent: Selenium Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



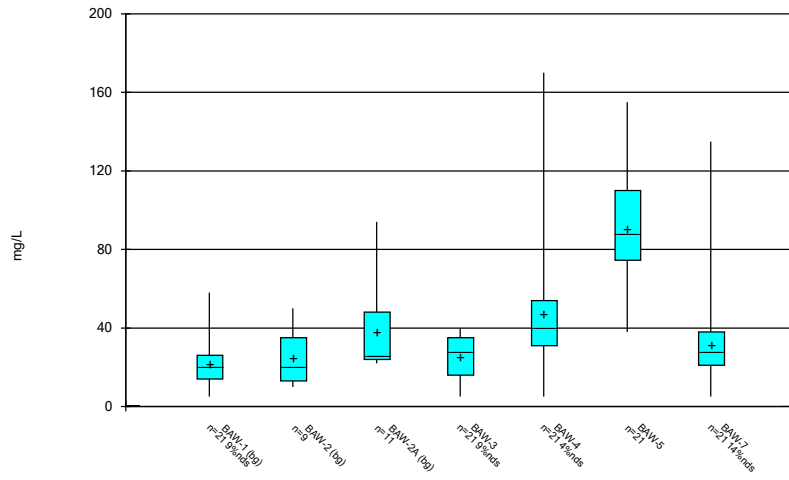
Constituent: Sulfate Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



Constituent: Thallium Analysis Run 12/7/2022 12:16 PM View: Descriptive
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 12/7/2022 12:16 PM View: Descriptive
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

FIGURE C.

Outlier Summary

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/2/2022, 10:18 AM

BAW-2 Calcium (mg/L)
BAW-1 Lithium (mg/L)

| | | |
|-----------|---------|-----------|
| 3/23/2016 | 2.6 (o) | |
| 7/12/2016 | | 0.012 (o) |

FIGURE D.

Interwell Prediction Limit - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/2/2022, 11:00 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg | NBg | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------------|-------|------------|------------|-----------|---------|------|----|--------|---------|-----------|-------|---------|-----------|-----------------------------|-----------------------|
| Boron (mg/L) | BAW-5 | 0.0928 | n/a | 10/6/2022 | 0.631 | Yes | 43 | n/a | n/a | n/a | 88.37 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-7 | 0.0928 | n/a | 10/6/2022 | 1.82 | Yes | 43 | n/a | n/a | n/a | 88.37 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | BAW-4 | 1.697 | n/a | 10/5/2022 | 5.81 | Yes | 42 | 0.9557 | 0.1301 | 4.762 | None | x^(1/3) | 0.00188 | Param Inter 1 of 2 | |
| Calcium (mg/L) | BAW-5 | 1.697 | n/a | 10/6/2022 | 28.2 | Yes | 42 | 0.9557 | 0.1301 | 4.762 | None | x^(1/3) | 0.00188 | Param Inter 1 of 2 | |
| Calcium (mg/L) | BAW-7 | 1.697 | n/a | 10/6/2022 | 4.84 | Yes | 42 | 0.9557 | 0.1301 | 4.762 | None | x^(1/3) | 0.00188 | Param Inter 1 of 2 | |
| pH (SU) | BAW-3 | 5.392 | 4.55 | 10/5/2022 | 4.51 | Yes | 41 | 1.705 | 0.02644 | 0 | None | x^(1/3) | 0.0009398 | Param Inter 1 of 2 | |
| pH (SU) | BAW-4 | 5.392 | 4.55 | 10/5/2022 | 5.57 | Yes | 41 | 1.705 | 0.02644 | 0 | None | x^(1/3) | 0.0009398 | Param Inter 1 of 2 | |
| pH (SU) | BAW-5 | 5.392 | 4.55 | 10/6/2022 | 6.27 | Yes | 41 | 1.705 | 0.02644 | 0 | None | x^(1/3) | 0.0009398 | Param Inter 1 of 2 | |
| Sulfate (mg/L) | BAW-3 | 5.37 | n/a | 10/5/2022 | 6.07 | Yes | 41 | n/a | n/a | 46.34 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 | |
| Sulfate (mg/L) | BAW-5 | 5.37 | n/a | 10/6/2022 | 19.5 | Yes | 41 | n/a | n/a | 46.34 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 | |
| Sulfate (mg/L) | BAW-7 | 5.37 | n/a | 10/6/2022 | 61.4 | Yes | 41 | n/a | n/a | 46.34 | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 | |
| Total Dissolved Solids (mg/L) | BAW-5 | 58.41 | n/a | 10/6/2022 | 155 | Yes | 41 | 4.93 | 1.487 | 4.878 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 | |
| Total Dissolved Solids (mg/L) | BAW-7 | 58.41 | n/a | 10/6/2022 | 135 | Yes | 41 | 4.93 | 1.487 | 4.878 | None | sqrt(x) | 0.00188 | Param Inter 1 of 2 | |

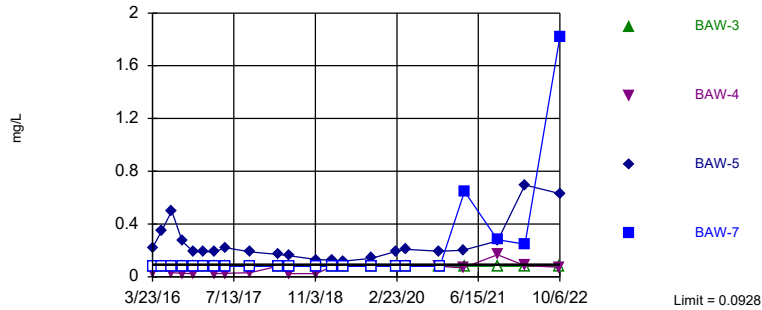
Interwell Prediction Limit - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/2/2022, 11:00 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg | NBg | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------------------|--------------|---------------|-------------|------------------|--------------|------------|-----------|---------------|----------------|--------------|--------------|------------|----------------|------------------|------------------------------------|
| Boron (mg/L) | BAW-3 | 0.0928 | n/a | 10/5/2022 | 0.08ND | No | 43 | n/a | n/a | n/a | 88.37 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-4 | 0.0928 | n/a | 10/5/2022 | 0.0714J | No | 43 | n/a | n/a | n/a | 88.37 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-5 | 0.0928 | n/a | 10/6/2022 | 0.631 | Yes | 43 | n/a | n/a | n/a | 88.37 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | BAW-7 | 0.0928 | n/a | 10/6/2022 | 1.82 | Yes | 43 | n/a | n/a | n/a | 88.37 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | BAW-3 | 1.697 | n/a | 10/5/2022 | 0.647 | No | 42 | 0.9557 | 0.1301 | 4.762 | None | n/a | x^(1/3) | 0.00188 | Param Inter 1 of 2 |
| Calcium (mg/L) | BAW-4 | 1.697 | n/a | 10/5/2022 | 5.81 | Yes | 42 | 0.9557 | 0.1301 | 4.762 | None | n/a | x^(1/3) | 0.00188 | Param Inter 1 of 2 |
| Calcium (mg/L) | BAW-5 | 1.697 | n/a | 10/6/2022 | 28.2 | Yes | 42 | 0.9557 | 0.1301 | 4.762 | None | n/a | x^(1/3) | 0.00188 | Param Inter 1 of 2 |
| Calcium (mg/L) | BAW-7 | 1.697 | n/a | 10/6/2022 | 4.84 | Yes | 42 | 0.9557 | 0.1301 | 4.762 | None | n/a | x^(1/3) | 0.00188 | Param Inter 1 of 2 |
| Chloride (mg/L) | BAW-3 | 16.4 | n/a | 10/5/2022 | 6.04 | No | 41 | n/a | n/a | 0 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-4 | 16.4 | n/a | 10/5/2022 | 8.84 | No | 41 | n/a | n/a | 0 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-5 | 16.4 | n/a | 10/6/2022 | 9.04 | No | 41 | n/a | n/a | 0 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | BAW-7 | 16.4 | n/a | 10/6/2022 | 12.7 | No | 41 | n/a | n/a | 0 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | BAW-3 | 0.1 | n/a | 10/5/2022 | 0.1ND | No | 43 | n/a | n/a | n/a | 90.7 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | BAW-4 | 0.1 | n/a | 10/5/2022 | 0.0322J | No | 43 | n/a | n/a | n/a | 90.7 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | BAW-5 | 0.1 | n/a | 10/6/2022 | 0.0972J | No | 43 | n/a | n/a | n/a | 90.7 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| Fluoride (mg/L) | BAW-7 | 0.1 | n/a | 10/6/2022 | 0.1ND | No | 43 | n/a | n/a | n/a | 90.7 | n/a | n/a | 0.001022 | NP Inter (NDs) 1 of 2 |
| pH (SU) | BAW-3 | 5.392 | 4.55 | 10/5/2022 | 4.51 | Yes | 41 | 1.705 | 0.02644 | 0 | None | n/a | x^(1/3) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-4 | 5.392 | 4.55 | 10/5/2022 | 5.57 | Yes | 41 | 1.705 | 0.02644 | 0 | None | n/a | x^(1/3) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-5 | 5.392 | 4.55 | 10/6/2022 | 6.27 | Yes | 41 | 1.705 | 0.02644 | 0 | None | n/a | x^(1/3) | 0.0009398 | Param Inter 1 of 2 |
| pH (SU) | BAW-7 | 5.392 | 4.55 | 10/6/2022 | 4.71 | No | 41 | 1.705 | 0.02644 | 0 | None | n/a | x^(1/3) | 0.0009398 | Param Inter 1 of 2 |
| Sulfate (mg/L) | BAW-3 | 5.37 | n/a | 10/5/2022 | 6.07 | Yes | 41 | n/a | n/a | 46.34 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-4 | 5.37 | n/a | 10/5/2022 | 4.12 | No | 41 | n/a | n/a | 46.34 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-5 | 5.37 | n/a | 10/6/2022 | 19.5 | Yes | 41 | n/a | n/a | 46.34 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | BAW-7 | 5.37 | n/a | 10/6/2022 | 61.4 | Yes | 41 | n/a | n/a | 46.34 | n/a | n/a | n/a | 0.001101 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-3 | 58.41 | n/a | 10/5/2022 | 32 | No | 41 | 4.93 | 1.487 | 4.878 | None | n/a | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-4 | 58.41 | n/a | 10/5/2022 | 52 | No | 41 | 4.93 | 1.487 | 4.878 | None | n/a | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-5 | 58.41 | n/a | 10/6/2022 | 155 | Yes | 41 | 4.93 | 1.487 | 4.878 | None | n/a | sqrt(x) | 0.00188 | Param Inter 1 of 2 |
| Total Dissolved Solids (mg/L) | BAW-7 | 58.41 | n/a | 10/6/2022 | 135 | Yes | 41 | 4.93 | 1.487 | 4.878 | None | n/a | sqrt(x) | 0.00188 | Param Inter 1 of 2 |

Exceeds Limit: BAW-5, BAW-7

Prediction Limit
Interwell Non-parametric

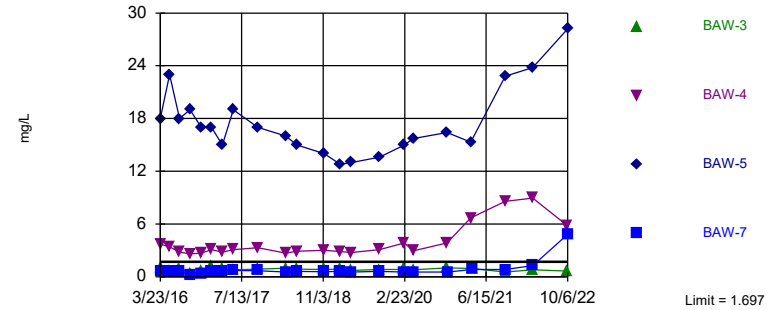


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 88.37% NDs. Annual per-constituent alpha = 0.008148. Individual comparison alpha = 0.001022 (1 of 2). Comparing 4 points to limit.

Constituent: Boron Analysis Run 11/2/2022 10:59 AM View: PLs Interwell App III
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Exceeds Limit: BAW-4, BAW-5, BAW-7

Prediction Limit
Interwell Parametric

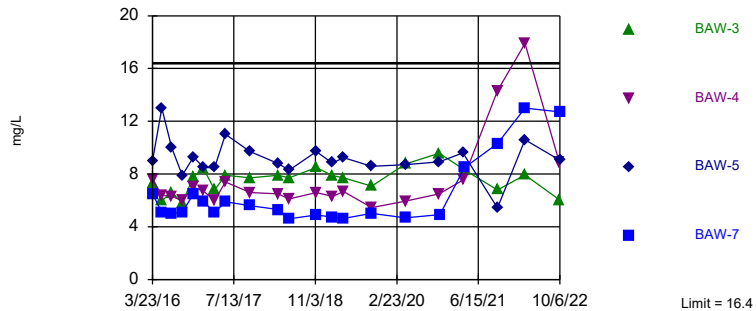


Background Data Summary (based on cube root transformation): Mean=0.9557, Std. Dev.=0.1301, n=42, 4.762% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9264, critical = 0.922. Kappa = 1.822 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Comparing 4 points to limit.

Constituent: Calcium Analysis Run 11/2/2022 10:59 AM View: PLs Interwell App III
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Within Limit

Prediction Limit
Interwell Non-parametric

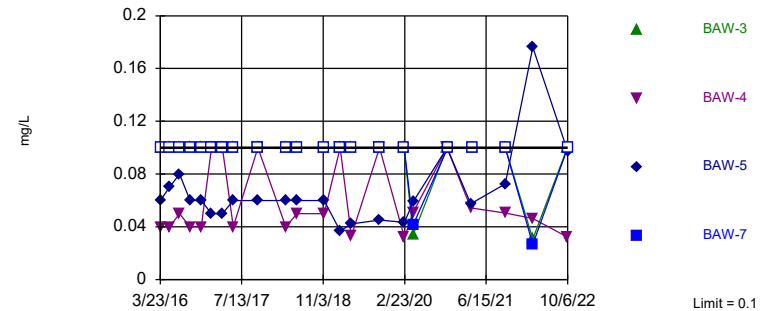


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. Annual per-constituent alpha = 0.008777. Individual comparison alpha = 0.001101 (1 of 2). Comparing 4 points to limit.

Constituent: Chloride Analysis Run 11/2/2022 10:59 AM View: PLs Interwell App III
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Within Limit

Prediction Limit
Interwell Non-parametric

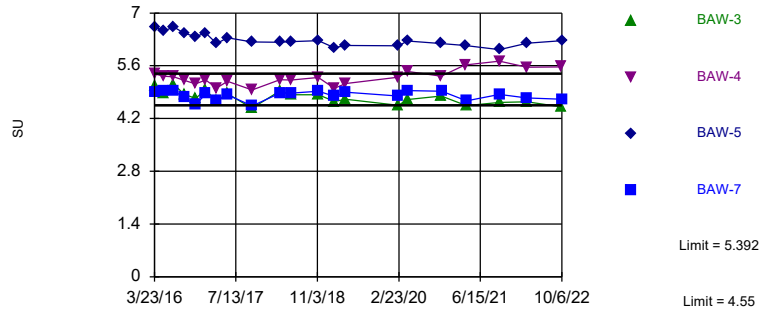


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 90.7% NDs. Annual per-constituent alpha = 0.008148. Individual comparison alpha = 0.001022 (1 of 2). Comparing 4 points to limit.

Constituent: Fluoride Analysis Run 11/2/2022 10:59 AM View: PLs Interwell App III
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Exceeds Limits: BAW-3, BAW-4, BAW-5

Prediction Limit
Interwell Parametric



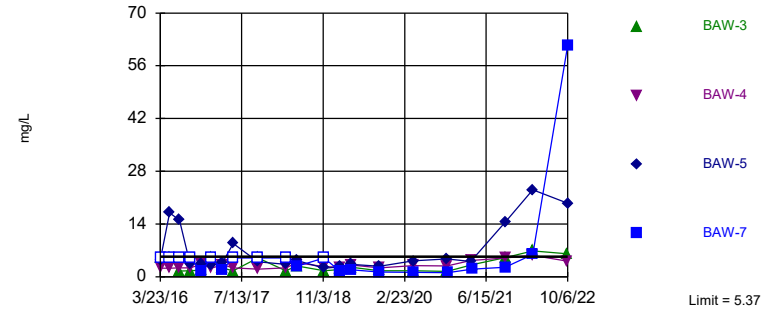
Background Data Summary (based on cube root transformation): Mean=1.705, Std. Dev.=0.02644, n=41. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9222, critical = 0.92. Kappa = 1.824 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0009398. Comparing 4 points to limit.

Constituent: pH Analysis Run 11/2/2022 10:59 AM View: PLs Interwell App III
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Hollow symbols indicate censored values.

Exceeds Limit: BAW-3, BAW-5, BAW-7

Prediction Limit
Interwell Non-parametric



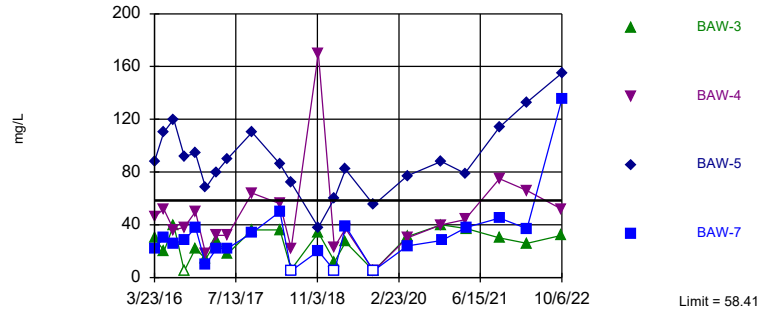
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 41 background values. 46.34% NDs. Annual per-constituent alpha = 0.008777. Individual comparison alpha = 0.001101 (1 of 2). Comparing 4 points to limit.

Constituent: Sulfate Analysis Run 11/2/2022 10:59 AM View: PLs Interwell App III
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Hollow symbols indicate censored values.

Exceeds Limit: BAW-5, BAW-7

Prediction Limit
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=4.93, Std. Dev.=1.487, n=41, 4.878% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9467, critical = 0.92. Kappa = 1.824 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Comparing 4 points to limit.

Constituent: Total Dissolved Solids Analysis Run 11/2/2022 10:59 AM View: PLs Interwell App III
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/2/2022 11:00 AM View: PLs Interwell App III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4 | BAW-2A (bg) |
|------------|------------|-------|-------|-------|------------|------------|-------------|
| 3/23/2016 | <0.08 | <0.08 | 0.22 | <0.08 | <0.08 | 0.037 (J) | |
| 5/17/2016 | <0.08 | <0.08 | 0.35 | | | <0.08 | |
| 5/18/2016 | | | | <0.08 | <0.08 | | |
| 7/12/2016 | <0.08 | <0.08 | | | | | |
| 7/13/2016 | | | 0.5 | <0.08 | <0.08 | 0.032 (J) | |
| 9/13/2016 | <0.08 | <0.08 | 0.27 | | | | |
| 9/14/2016 | | | | <0.08 | <0.08 | 0.027 (J) | |
| 11/19/2016 | <0.08 | <0.08 | 0.19 | <0.08 | <0.08 | 0.024 (J) | |
| 1/17/2017 | <0.08 | <0.08 | | <0.08 | <0.08 | | |
| 1/18/2017 | | | 0.19 | | | <0.08 | |
| 3/22/2017 | <0.08 | <0.08 | | | | | |
| 3/23/2017 | | | 0.19 | <0.08 | <0.08 | 0.024 (J) | |
| 5/24/2017 | <0.08 | <0.08 | 0.22 | <0.08 | <0.08 | 0.027 (J) | |
| 10/16/2017 | <0.08 | <0.08 | 0.19 | <0.08 | <0.08 | 0.03 (J) | |
| 3/28/2018 | <0.08 | | 0.17 | <0.08 | | <0.08 | <0.08 |
| 3/29/2018 | | <0.08 | | | | | |
| 6/2/2018 | <0.08 | <0.08 | 0.16 | <0.08 | | 0.025 (J) | <0.08 |
| 11/8/2018 | <0.08 | | | <0.08 | | 0.024 (J) | |
| 11/9/2018 | | <0.08 | 0.13 | | | | <0.08 |
| 2/11/2019 | <0.08 | | 0.126 | | | <0.08 | |
| 2/12/2019 | | <0.08 | | <0.08 | | | <0.08 |
| 4/17/2019 | <0.08 | | 0.118 | <0.08 | | <0.08 | <0.08 |
| 4/18/2019 | | <0.08 | | | | | |
| 9/27/2019 | <0.08 | <0.08 | | | | | <0.08 |
| 9/30/2019 | | | 0.14 | <0.08 | | <0.08 | |
| 2/21/2020 | 0.0928 | <0.08 | | <0.08 | | | 0.0589 (J) |
| 2/22/2020 | | | 0.193 | | | <0.08 | |
| 4/14/2020 | <0.08 | <0.08 | 0.209 | <0.08 | | <0.08 | 0.0424 (J) |
| 10/30/2020 | <0.08 | | 0.194 | <0.08 | | <0.08 | 0.0495 (J) |
| 11/2/2020 | | <0.08 | | | | | |
| 3/17/2021 | | | 0.2 | | | 0.0673 (J) | |
| 3/26/2021 | <0.08 | 0.647 | | <0.08 | | | <0.08 |
| 10/5/2021 | <0.08 | 0.281 | | | | 0.168 | |
| 10/6/2021 | | | 0.272 | <0.08 | | | <0.08 |
| 3/16/2022 | <0.08 | 0.247 | 0.695 | <0.08 | | 0.084 | 0.0717 (J) |
| 10/5/2022 | <0.08 | | | <0.08 | | 0.0714 (J) | |
| 10/6/2022 | | 1.82 | 0.631 | | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/2/2022 11:00 AM View: PLs Interwell App III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-4 | BAW-2 (bg) | BAW-2A (bg) |
|------------|------------|-------|-------|-------|-------|------------|-------------|
| 3/23/2016 | <0.5 | 0.65 | 18 | 1.1 | 3.7 | 2.6 (o) | |
| 5/17/2016 | 0.84 | 0.68 | 23 | | 3.4 | | |
| 5/18/2016 | | | | 0.56 | | 1.3 | |
| 7/12/2016 | 0.79 | 0.62 | | | | | |
| 7/13/2016 | | | 18 | 0.95 | 2.8 | 1.1 | |
| 9/13/2016 | 0.42 | 0.25 | 19 | | | | |
| 9/14/2016 | | | | 0.4 | 2.6 | 1.1 | |
| 11/19/2016 | 1.2 | 0.36 | 17 | 0.62 | 2.7 | 1 | |
| 1/17/2017 | 1.4 | 0.66 | | 1.2 | | 0.87 | |
| 1/18/2017 | | | 17 | | 3.1 | | |
| 3/22/2017 | 0.95 | 0.65 | | | | | |
| 3/23/2017 | | | 15 | 0.87 | 2.8 | 0.74 | |
| 5/24/2017 | 1.3 | 0.72 | 19 | 0.81 | 3.1 | 0.84 | |
| 10/16/2017 | 0.93 | 0.7 | 17 | 0.86 | 3.3 | 0.76 | |
| 3/28/2018 | 1 | | 16 | 0.97 | 2.7 | | 2.8 |
| 3/29/2018 | | 0.55 | | | | | |
| 6/2/2018 | 0.93 | 0.6 | 15 | 0.86 | 2.9 | | 0.71 |
| 11/8/2018 | 1 | | | 0.84 | 3 | | |
| 11/9/2018 | | 0.59 | 14 | | | | 0.61 |
| 2/11/2019 | 1 | | 12.8 | | 2.88 | | |
| 2/12/2019 | | 0.608 | | 0.856 | | | 0.757 |
| 4/17/2019 | 0.893 | | 13 | 0.711 | 2.77 | | 0.755 |
| 4/18/2019 | | 0.55 | | | | | |
| 9/27/2019 | 0.8 | 0.598 | | | | | 0.663 |
| 9/30/2019 | | | 13.6 | 0.826 | 3.08 | | |
| 2/21/2020 | 1.02 | 0.552 | | 0.841 | | | 0.648 |
| 2/22/2020 | | | 15 | | 3.86 | | |
| 4/14/2020 | 0.887 | 0.532 | 15.7 | 0.811 | 2.95 | | 0.67 |
| 10/30/2020 | 0.945 | | 16.4 | 1 | 3.84 | | 0.672 |
| 11/2/2020 | | 0.535 | | | | | |
| 3/17/2021 | | | 15.3 | | 6.69 | | |
| 3/26/2021 | 0.965 | 0.848 | | 0.937 | | | 0.644 |
| 10/5/2021 | 0.996 | 0.829 | | | 8.57 | | |
| 10/6/2021 | | | 22.8 | 0.532 | | | <0.5 |
| 3/16/2022 | 1.32 | 1.28 | 23.8 | 0.78 | 8.94 | | 0.539 |
| 10/5/2022 | 1.42 | | | 0.647 | 5.81 | | |
| 10/6/2022 | | 4.84 | 28.2 | | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/2/2022 11:00 AM View: PLs Interwell App III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4 | BAW-2A (bg) |
|------------|------------|-------|-------|-------|------------|-------|-------------|
| 3/23/2016 | 6.5 | 6.5 | 9 | 7.3 | 5.1 | 7.6 | |
| 5/17/2016 | 4.9 | 5.1 | 13 | | | 6.4 | |
| 5/18/2016 | | | | 6 | 4.2 | | |
| 7/12/2016 | 5.3 | 5 | | | | | |
| 7/13/2016 | | | 10 | 6.6 | 4.7 | 6.3 | |
| 9/13/2016 | 4.8 (F1) | 5.1 | 7.9 | | | | |
| 9/14/2016 | | | | 5.8 | 4.5 | 6 | |
| 11/19/2016 | 7.1 | 6.5 | 9.3 | 7.8 | 6.1 | 7 | |
| 1/17/2017 | 5.8 | 5.9 | | 8.4 | 5.4 | | |
| 1/18/2017 | | | 8.5 | | | 6.7 | |
| 3/22/2017 | 4.9 | 5.1 | | | | | |
| 3/23/2017 | | | 8.5 | 6.8 | 5.1 | 6 | |
| 5/24/2017 | 5.9 | 5.9 | 11 | 7.9 | 5.5 | 7.4 | |
| 10/16/2017 | 5.7 | 5.6 | 9.7 | 7.7 | 6.1 | 6.6 | |
| 3/28/2018 | 5.7 | | 8.8 | 7.9 | | 6.5 | 6.7 |
| 3/29/2018 | | 5.3 | | | | | |
| 6/2/2018 | 4.7 | 4.6 | 8.3 | 7.7 | | 6.1 | 5.8 |
| 11/8/2018 | 5.6 | | | 8.5 | | 6.6 | |
| 11/9/2018 | | 4.9 | 9.7 | | | | 7.2 |
| 2/11/2019 | 4.84 | | 8.84 | | | 6.31 | |
| 2/12/2019 | | 4.72 | | 7.89 | | | 8.4 |
| 4/17/2019 | 4.99 | | 9.24 | 7.71 | | 6.68 | 8.03 |
| 4/18/2019 | | 4.64 | | | | | |
| 9/27/2019 | 5.08 | 5.02 | | | | | 8.37 |
| 9/30/2019 | | | 8.59 | 7.07 | | 5.45 | |
| 4/14/2020 | 4.91 | 4.68 | 8.71 | 8.75 | | 5.93 | 7.57 |
| 10/30/2020 | 5.55 | | 8.93 | 9.58 | | 6.49 | 7.59 |
| 11/2/2020 | | 4.91 | | | | | |
| 3/17/2021 | | | 9.6 | | | 7.55 | |
| 3/26/2021 | 5.92 | 8.5 | | 8.32 | | | 6.21 |
| 10/5/2021 | 6.21 | 10.3 | | | | 14.3 | |
| 10/6/2021 | | | 5.44 | 6.8 | | | 16.4 |
| 3/16/2022 | 7.85 | 13 | 10.6 | 7.94 | | 17.9 | 11.5 |
| 10/5/2022 | 6.75 | | | 6.04 | | 8.84 | |
| 10/6/2022 | | 12.7 | 9.04 | | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/2/2022 11:00 AM View: PLs Interwell App III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4 | BAW-2A (bg) |
|------------|------------|------------|------------|------------|------------|------------|-------------|
| 3/23/2016 | <0.1 | <0.1 | 0.06 (J) | <0.1 | <0.1 | 0.04 (J) | |
| 5/17/2016 | <0.1 | <0.1 | 0.07 (J) | | | 0.04 (J) | |
| 5/18/2016 | | | | <0.1 | <0.1 | | |
| 7/12/2016 | <0.1 | <0.1 | | | | | |
| 7/13/2016 | | | 0.08 (J) | <0.1 | <0.1 | 0.05 (J) | |
| 9/13/2016 | <0.1 | <0.1 | 0.06 (J) | | | | |
| 9/14/2016 | | | | <0.1 | <0.1 | 0.04 (J) | |
| 11/19/2016 | <0.1 | <0.1 | 0.06 (J) | <0.1 | <0.1 | 0.04 (J) | |
| 1/17/2017 | <0.1 | <0.1 | | <0.1 | <0.1 | | |
| 1/18/2017 | | | 0.05 (J) | | | <0.1 | |
| 3/22/2017 | <0.1 | <0.1 | | | | | |
| 3/23/2017 | | | 0.05 (J) | <0.1 | <0.1 | <0.1 | |
| 5/24/2017 | <0.1 | <0.1 (D) | 0.06 (J) | <0.1 | <0.1 | 0.04 (J) | |
| 10/16/2017 | <0.1 | <0.1 | 0.06 (J) | <0.1 | <0.1 | <0.1 | |
| 3/28/2018 | <0.1 | | 0.06 (J) | <0.1 | | 0.04 (J) | <0.1 |
| 3/29/2018 | | <0.1 | | | | | |
| 6/2/2018 | <0.1 | <0.1 | 0.06 (J) | <0.1 | | 0.05 (J) | <0.1 |
| 11/8/2018 | <0.1 | | | <0.1 | | 0.05 (J) | |
| 11/9/2018 | | <0.1 | 0.06 (J) | | | | <0.1 |
| 2/11/2019 | <0.1 | | 0.0368 (J) | | | <0.1 | |
| 2/12/2019 | | <0.1 | | <0.1 | | | <0.1 |
| 4/17/2019 | <0.1 | | 0.0421 (J) | <0.1 | | 0.033 (J) | <0.1 |
| 4/18/2019 | | <0.1 | | | | | |
| 9/27/2019 | <0.1 | <0.1 | | | | | 0.0313 (J) |
| 9/30/2019 | | | 0.045 (J) | <0.1 | | <0.1 | |
| 2/21/2020 | <0.1 | <0.1 | | <0.1 | | | <0.1 |
| 2/22/2020 | | | 0.0434 (J) | | | 0.0317 (J) | |
| 4/14/2020 | 0.0532 (J) | 0.0415 (J) | 0.059 (J) | 0.034 (J) | | 0.0508 (J) | 0.0537 (J) |
| 10/30/2020 | <0.1 | | <0.1 | <0.1 | | <0.1 | <0.1 |
| 11/2/2020 | | <0.1 | | | | | |
| 3/17/2021 | | | 0.0575 (J) | | | 0.0544 (J) | |
| 3/26/2021 | <0.1 | <0.1 | | <0.1 | | | <0.1 |
| 10/5/2021 | 0.0499 (J) | <0.1 | | | | 0.0505 (J) | |
| 10/6/2021 | | | 0.0725 (J) | <0.1 | | | <0.1 |
| 3/16/2022 | <0.1 | 0.0266 (J) | 0.176 | 0.0307 (J) | | 0.0462 (J) | <0.1 |
| 10/5/2022 | <0.1 | | | <0.1 | | 0.0322 (J) | |
| 10/6/2022 | | <0.1 | 0.0972 (J) | | | | |

Prediction Limit

Constituent: pH (SU) Analysis Run 11/2/2022 11:00 AM View: PLs Interwell App III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4 | BAW-2A (bg) |
|------------|------------|-------|-------|-------|------------|-------|-------------|
| 3/23/2016 | 5.12 | 4.89 | 6.64 | 5.05 | 5.52 | 5.38 | |
| 5/17/2016 | 5.23 | 4.92 | 6.52 | | | 5.32 | |
| 5/18/2016 | | | | 4.86 | 5.24 | | |
| 7/12/2016 | 5.77 | 4.93 | | | | | |
| 7/13/2016 | | | 6.63 | 5.11 | 5.17 | 5.31 | |
| 9/13/2016 | 4.98 | 4.76 | 6.46 | | | | |
| 9/14/2016 | | | | 4.84 | 5.04 | 5.21 | |
| 11/19/2016 | 4.82 | 4.56 | 6.38 | 4.74 | 4.88 | 5.12 | |
| 1/17/2017 | 5.04 | 4.86 | | 4.95 | 5.04 | | |
| 1/18/2017 | | | 6.47 | | | 5.22 | |
| 3/22/2017 | 4.73 | 4.66 | | | | | |
| 3/23/2017 | | | 6.19 | 4.66 | 4.66 | 5.01 | |
| 5/24/2017 | 5.01 | 4.83 | 6.34 | 4.86 | 4.93 | 5.19 | |
| 10/16/2017 | 4.59 | 4.53 | 6.23 | 4.47 | 4.65 | 4.96 | |
| 3/28/2018 | 4.87 | | 6.22 | 4.93 | | 5.23 | 5.39 |
| 3/29/2018 | | 4.87 | | | | | |
| 6/2/2018 | 4.92 | 4.87 | 6.24 | 4.83 | | 5.22 | 5.06 |
| 11/8/2018 | 5 | | | 4.83 | | 5.29 | |
| 11/9/2018 | | 4.92 | 6.27 | | | | 4.92 |
| 2/11/2019 | 4.7 | | 6.08 | | | 5 | |
| 2/12/2019 | | 4.79 | | 4.65 | | | 4.86 |
| 4/17/2019 | 4.9 | | 6.14 | 4.71 | | 5.13 | 4.79 |
| 4/18/2019 | | 4.9 | | | | | |
| 2/21/2020 | 4.86 | 4.8 | | 4.55 | | | 4.73 |
| 2/22/2020 | | | 6.13 | | | 5.3 | |
| 4/14/2020 | 5.23 | 4.94 | 6.26 | 4.7 | | 5.45 | 4.87 |
| 10/30/2020 | 5 | | 6.19 | 4.8 | | 5.32 | 4.87 |
| 11/2/2020 | | 4.92 | | | | | |
| 3/17/2021 | | | 6.14 | | | 5.62 | |
| 3/26/2021 | 4.86 | 4.67 | | 4.54 | | | 4.7 |
| 10/5/2021 | 5 | 4.84 | | | | 5.72 | |
| 10/6/2021 | | | 6.03 | 4.63 | | | 4.77 |
| 3/16/2022 | 4.92 | 4.75 | 6.2 | 4.64 | | 5.56 | 4.91 |
| 10/5/2022 | 4.91 | | | 4.51 | | 5.57 | |
| 10/6/2022 | | 4.71 | 6.27 | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/2/2022 11:00 AM View: PLs Interwell App III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4 | BAW-2A (bg) |
|------------|------------|---------|---------|---------|------------|---------|-------------|
| 3/23/2016 | <5 | <5 | 4.5 (J) | <5 | <5 | 2.3 (J) | |
| 5/17/2016 | <5 | <5 | 17 | | | 2.3 (J) | |
| 5/18/2016 | | | | <5 | <5 | | |
| 7/12/2016 | <5 | <5 | | | | | |
| 7/13/2016 | | | 15 | 1.5 (J) | <5 | 2.4 (J) | |
| 9/13/2016 | <5 | <5 | 3.4 (J) | | | | |
| 9/14/2016 | | | | 1.6 (J) | <5 | 2.4 (J) | |
| 11/19/2016 | <5 | 1.5 (J) | 3.5 (J) | 1.8 (J) | <5 | 3.3 (J) | |
| 1/17/2017 | <5 | <5 | | <5 | <5 | | |
| 1/18/2017 | | | 3.2 (J) | | | 2.3 (J) | |
| 3/22/2017 | <5 | 1.9 (J) | | | | | |
| 3/23/2017 | | | 3.7 (J) | 2.3 (J) | 1.8 (J) | 3.2 (J) | |
| 5/24/2017 | <5 | <5 | 8.8 | 1.6 (J) | 1.5 (J) | 2.4 (J) | |
| 10/16/2017 | <5 | <5 | 4 (J) | <5 | <5 | 2 (J) | |
| 3/28/2018 | <5 | | 3.3 (J) | 1.6 (J) | | 2.4 (J) | 1.7 (J) |
| 3/29/2018 | | <5 | | | | | |
| 6/2/2018 | 1.9 (J) | 2.8 (J) | 4.3 (J) | 2.9 (J) | | 3.7 (J) | 3 (J) |
| 11/8/2018 | <5 | | | 1.6 (J) | | 2.7 (J) | |
| 11/9/2018 | | <5 | 2.3 (J) | | | | <5 |
| 2/11/2019 | 0.774 (J) | | 2.64 | | | 2.5 | |
| 2/12/2019 | | 1.35 | | 1.97 | | | 1.97 |
| 4/17/2019 | 1.43 | | 3.27 | 2.5 | | 3.15 | 2.82 |
| 4/18/2019 | | 1.82 | | | | | |
| 9/27/2019 | 1.03 | 1.22 | | | | | 2.19 |
| 9/30/2019 | | | 2.82 | 1.64 | | 2.34 | |
| 4/14/2020 | 0.928 (J) | 1.18 | 4.2 | 1.62 | | 2.99 | 2.71 |
| 10/30/2020 | 0.91 (J) | | 4.76 | 1.44 | | 2.84 | 3.97 |
| 11/2/2020 | | 1.08 | | | | | |
| 3/17/2021 | | | 4.07 | | | 4.35 | |
| 3/26/2021 | 1.49 | 2 | | 3.25 | | | 2.04 |
| 10/5/2021 | 1.13 | 2.55 | | | | 5.02 | |
| 10/6/2021 | | | 14.5 | 5.07 | | | 5.37 |
| 3/16/2022 | 3.6 | 5.93 | 23.1 | 6.85 | | 5.64 | 5.37 |
| 10/5/2022 | 1.34 | | | 6.07 | | 4.12 | |
| 10/6/2022 | | 61.4 | 19.5 | | | | |

Prediction Limit

Constituent: T Total Dissolved Solids (mg/L) Analysis Run 11/2/2022 11:00 AM View: PLs Interwell App III

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-1 (bg) | BAW-7 | BAW-5 | BAW-3 | BAW-2 (bg) | BAW-4 | BAW-2A (bg) |
|------------|------------|-------|-------|-------|------------|-------|-------------|
| 3/23/2016 | 20 | 22 | 88 | 30 | 30 | 46 | |
| 5/17/2016 | 24 | 30 | 110 | | | 52 | |
| 5/18/2016 | | | | 20 | 20 | | |
| 7/12/2016 | 24 | 26 | | | | | |
| 7/13/2016 | | | 120 | 40 | 40 | 36 | |
| 9/13/2016 | 18 | 28 | 92 | | | | |
| 9/14/2016 | | | | <10 | 10 | 38 | |
| 11/19/2016 | 20 | 38 | 94 | 22 | 28 | 50 | |
| 1/17/2017 | <10 | 10 | | 14 | 14 | | |
| 1/18/2017 | | | 68 | | | 18 | |
| 3/22/2017 | 12 | 22 | | | | | |
| 3/23/2017 | | | 80 | 28 | 16 | 32 | |
| 5/24/2017 | 16 (D) | 22 | 90 | 18 | 12 | 32 | |
| 10/16/2017 | 58 | 34 | 110 | 36 | 50 | 64 | |
| 3/28/2018 | 18 | | 86 | 36 | | 56 | 30 |
| 3/29/2018 | | 50 | | | | | |
| 6/2/2018 | 6 | <10 | 72 | 6 | | 22 | 26 |
| 11/8/2018 | 12 | | | 34 | | 170 | |
| 11/9/2018 | | 20 | 38 | | | | 94 |
| 2/11/2019 | <10 | | 60 | | | 23 | |
| 2/12/2019 | | <10 | | 12 | | | 22 |
| 4/17/2019 | 16 | | 82 | 27 | | 37 | 22 |
| 4/18/2019 | | 39 | | | | | |
| 9/27/2019 | 26 | <10 | | | | | 25 |
| 9/30/2019 | | | 55 | <10 | | <10 | |
| 4/14/2020 | 25 | 24 | 77 | 31 | | 30 | 38 |
| 10/30/2020 | 34 | | 88 | 40 | | 40 | 48 |
| 11/2/2020 | | 28 | | | | | |
| 3/17/2021 | | | 79 | | | 44 | |
| 3/26/2021 | 24 | 38 | | 37 | | | 24 |
| 10/5/2021 | 26 | 45 | | | | 75 | |
| 10/6/2021 | | | 114 | 30 | | | 61 |
| 3/16/2022 | 30 | 37 | 133 | 26 | | 66 | 26 |
| 10/5/2022 | 30 | | | 32 | | 52 | |
| 10/6/2022 | | 135 | 155 | | | | |

FIGURE E.

Trend Tests - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/2/2022, 10:15 AM

| <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> |
|--------------------|-------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Calcium (mg/L) | BAW-2 (bg) | -0.4143 | -23 | -21 | Yes | 8 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-2 (bg) | -0.5393 | -29 | -25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-3 | -0.05966 | -118 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-5 | -0.06868 | -115 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-1 (bg) | -0.5125 | -101 | -87 | Yes | 21 | 52.38 | n/a | n/a | 0.01 | NP |

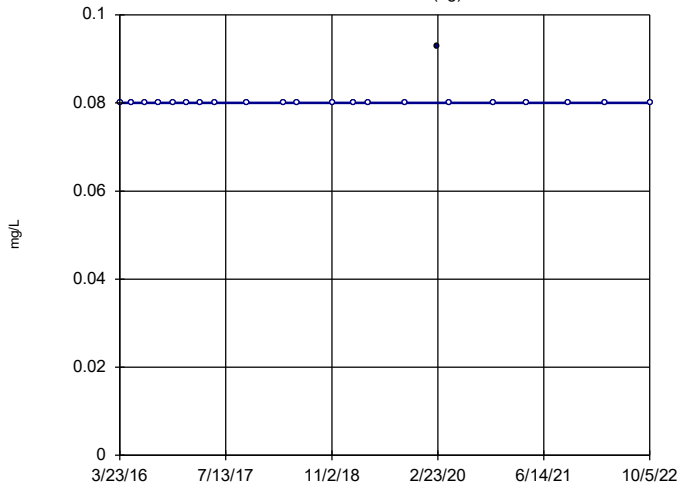
Trend Tests - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 11/2/2022, 10:15 AM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|-------------------|-----------------|-------------|------------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Boron (mg/L) | BAW-1 (bg) | 0 | 9 | 92 | No | 22 | 95.45 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-2 (bg) | 0 | 0 | 25 | No | 9 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-2A (bg) | 0 | -18 | -38 | No | 12 | 66.67 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-5 | 0 | -2 | -92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | BAW-7 | 0 | 72 | 92 | No | 22 | 81.82 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-1 (bg) | 0.03742 | 65 | 92 | No | 22 | 4.545 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-2 (bg) | -0.4143 | -23 | -21 | Yes | 8 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-2A (bg) | -0.06268 | -36 | -38 | No | 12 | 8.333 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-4 | 0.2694 | 90 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-5 | -0.382 | -25 | -92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | BAW-7 | 0.03332 | 29 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-1 (bg) | -0.02148 | -38 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-2 (bg) | -0.5393 | -29 | -25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-2A (bg) | -0.07555 | -24 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-3 | -0.05966 | -118 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-4 | 0.04519 | 66 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | BAW-5 | -0.06868 | -115 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-1 (bg) | -0.5125 | -101 | -87 | Yes | 21 | 52.38 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-2 (bg) | 0 | -11 | -25 | No | 9 | 77.78 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-2A (bg) | 0.6255 | 20 | 34 | No | 11 | 9.091 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-3 | 0.02922 | 34 | 87 | No | 21 | 19.05 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-5 | 0.1981 | 20 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | BAW-7 | -0.01929 | -36 | -87 | No | 21 | 42.86 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-1 (bg) | 1.555 | 52 | 87 | No | 21 | 9.524 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-2 (bg) | -5.236 | -4 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-2A (bg) | 0.9444 | 5 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-5 | -0.4163 | -4 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | BAW-7 | 2.528 | 44 | 87 | No | 21 | 14.29 | n/a | n/a | 0.01 | NP |

Sen's Slope Estimator

BAW-1 (bg)

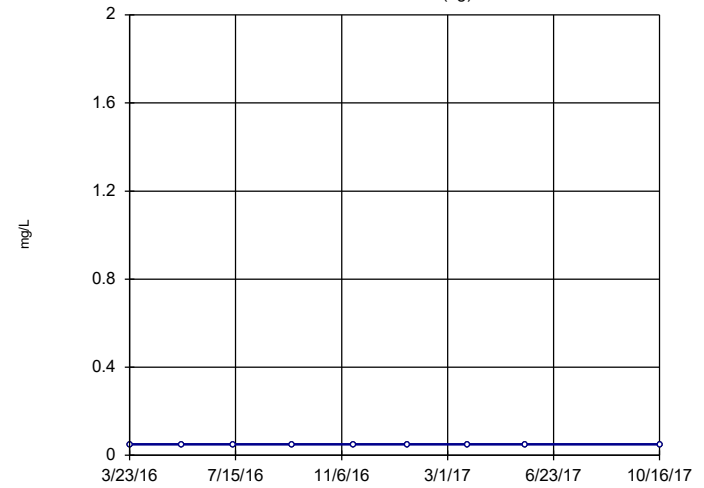


n = 22
Slope = 0
units per year.
Mann-Kendall
statistic = 9
critical = 92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

BAW-2 (bg)

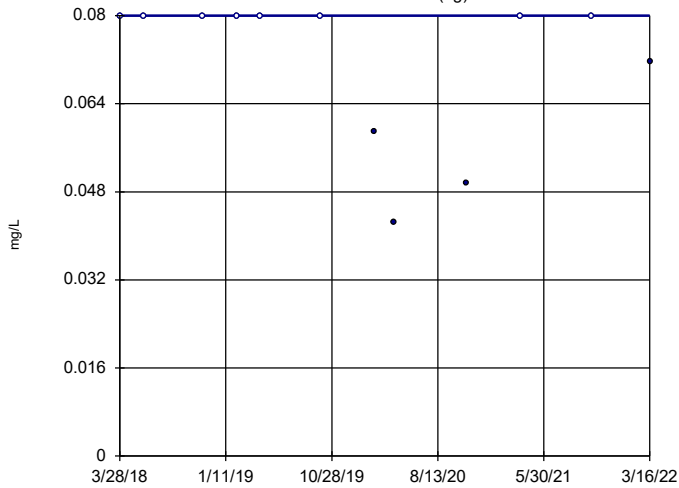


n = 9
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 25
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

BAW-2A (bg)

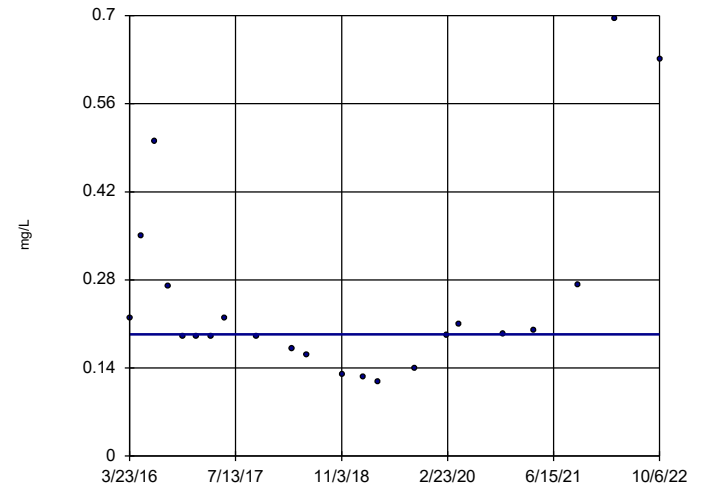


n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = -18
critical = -38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

BAW-5

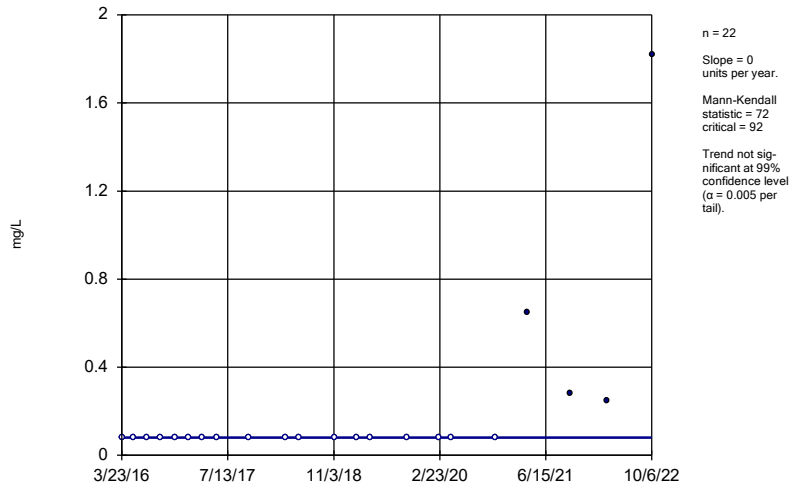


n = 22
Slope = 0
units per year.
Mann-Kendall
statistic = -2
critical = -92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

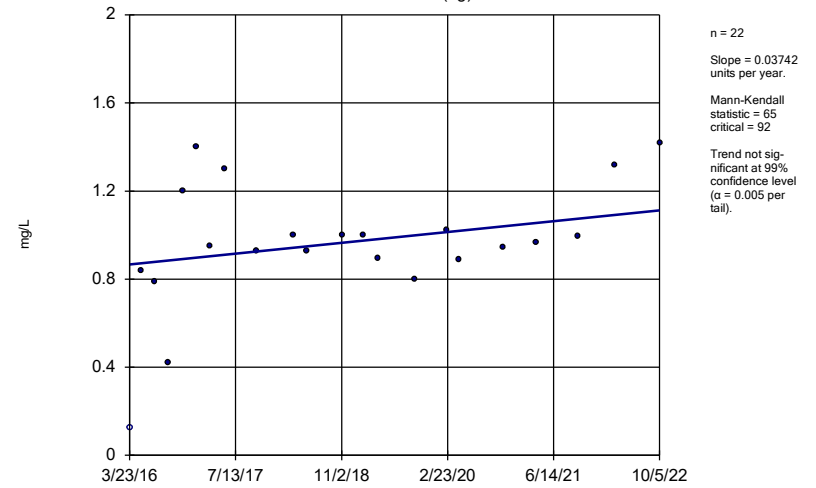
BAW-7



Constituent: Boron Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

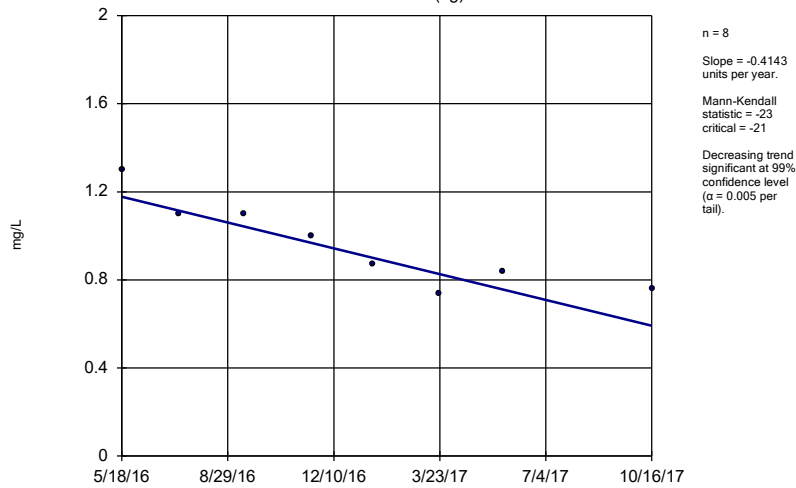
BAW-1 (bg)



Constituent: Calcium Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

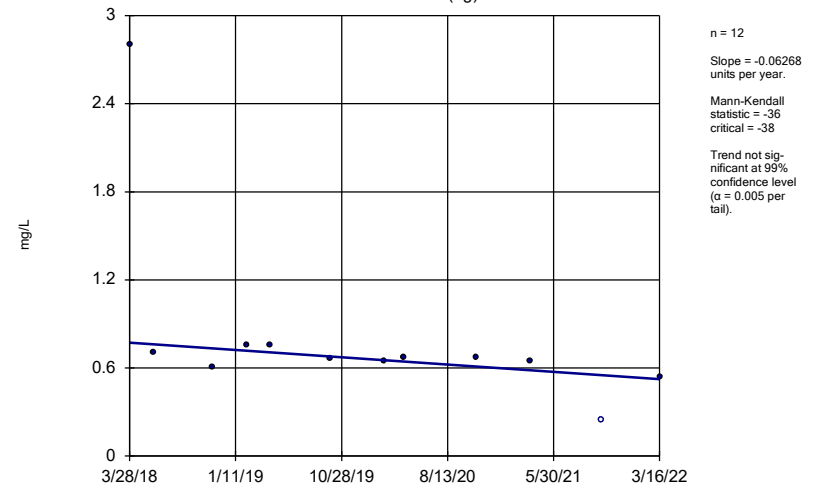
BAW-2 (bg)



Constituent: Calcium Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

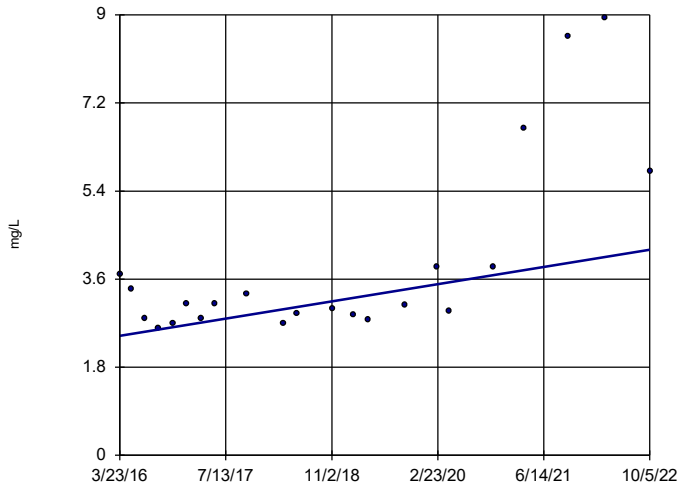
BAW-2A (bg)



Constituent: Calcium Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

BAW-4

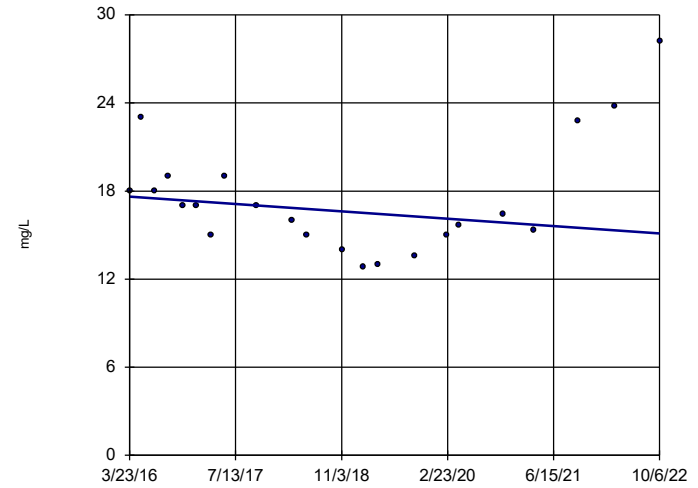


n = 22
Slope = 0.2694
units per year.
Mann-Kendall
statistic = 90
critical = 92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

BAW-5

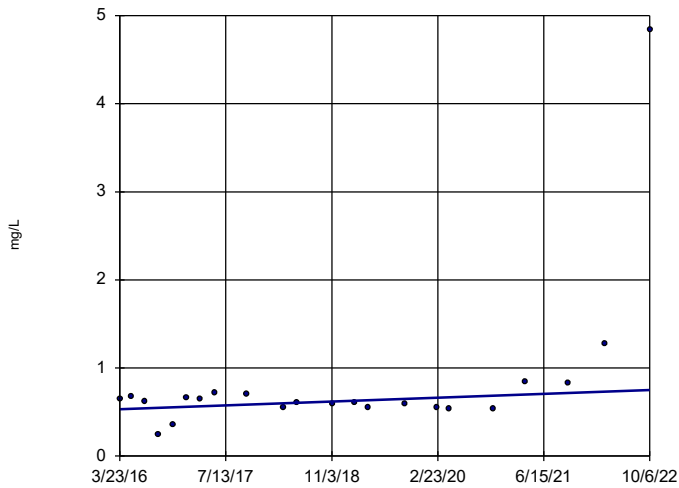


n = 22
Slope = -0.382
units per year.
Mann-Kendall
statistic = -25
critical = -92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

BAW-7

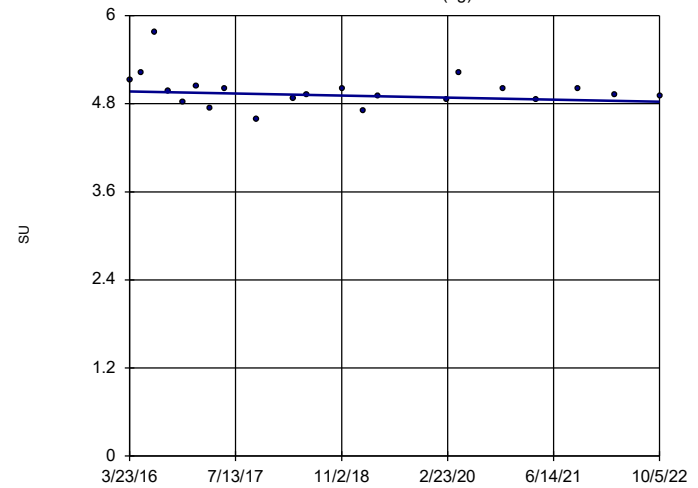


n = 22
Slope = 0.03332
units per year.
Mann-Kendall
statistic = 29
critical = 92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

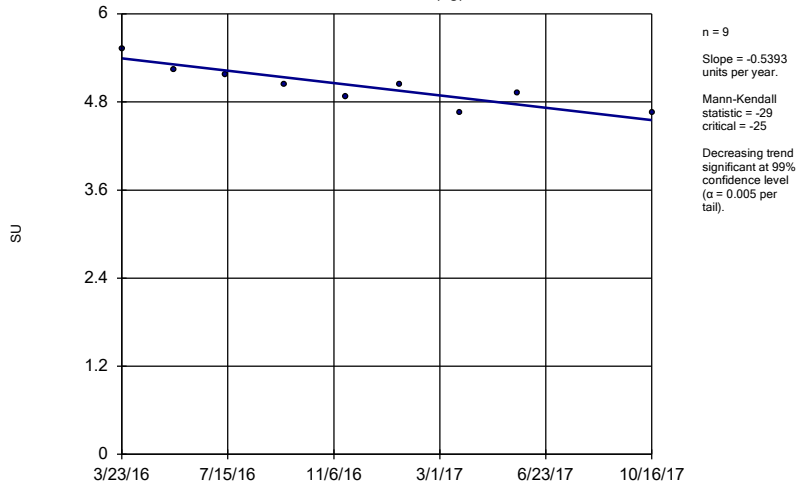
BAW-1 (bg)



n = 21
Slope = -0.02148
units per year.
Mann-Kendall
statistic = -38
critical = -87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

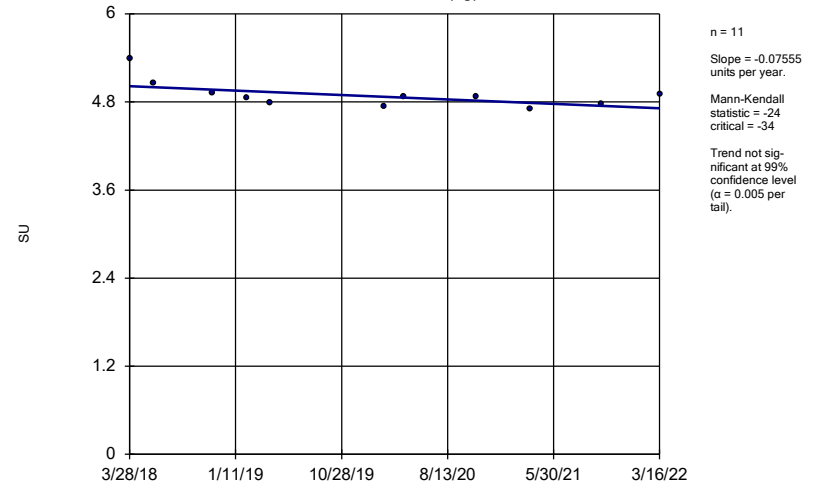
Constituent: pH Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator BAW-2 (bg)



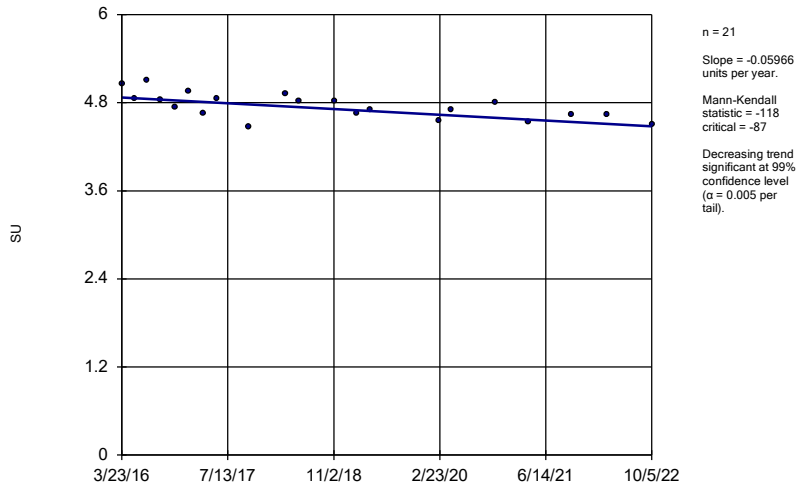
Constituent: pH Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator BAW-2A (bg)



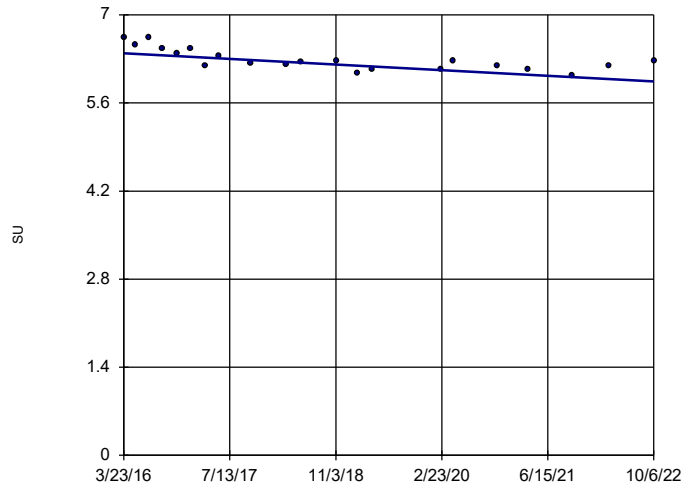
Constituent: pH Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator BAW-3



Sen's Slope Estimator

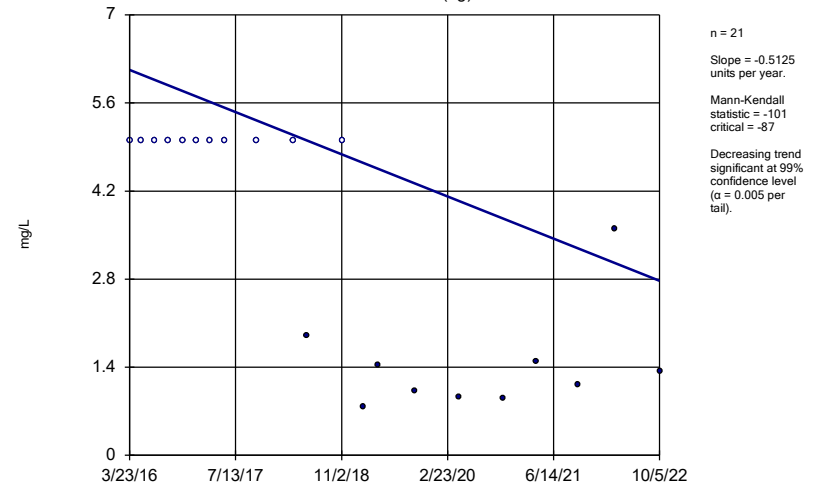
BAW-5



Constituent: pH Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

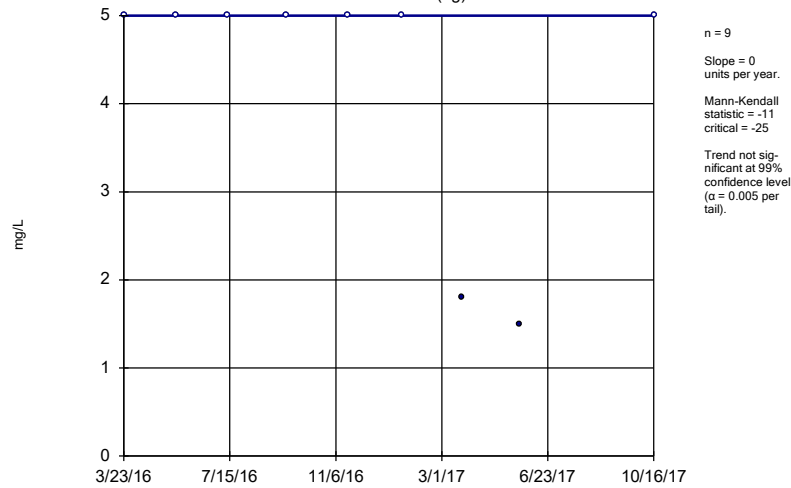
BAW-1 (bg)



Constituent: Sulfate Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

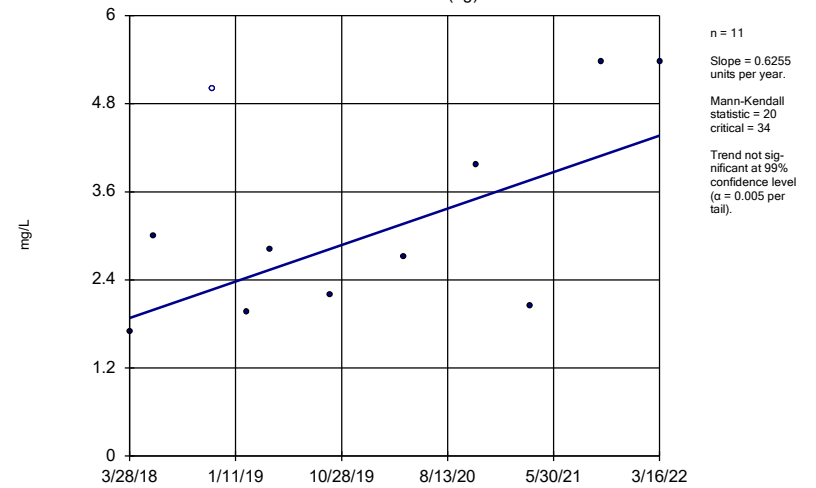
BAW-2 (bg)



Constituent: Sulfate Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

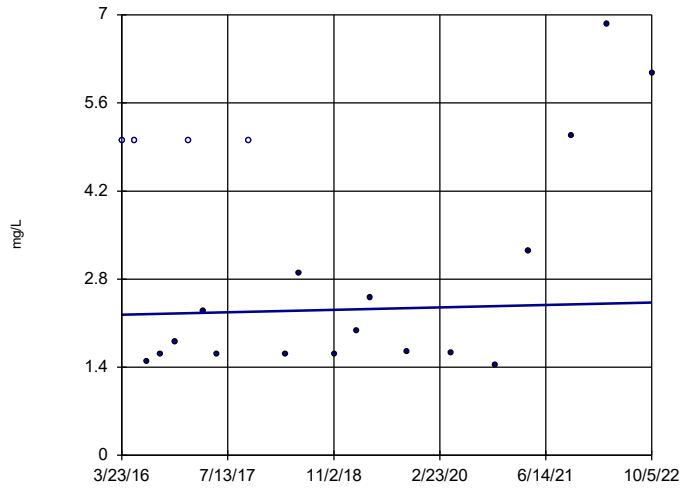
Sen's Slope Estimator

BAW-2A (bg)



Sen's Slope Estimator

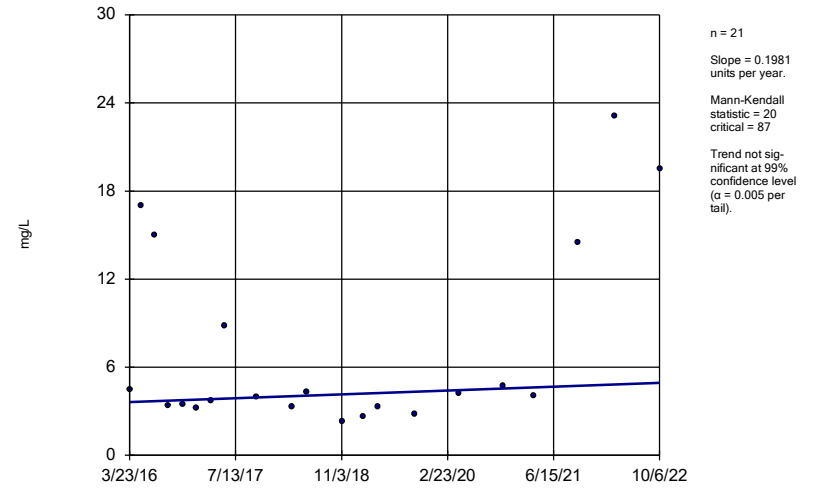
BAW-3



Constituent: Sulfate Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

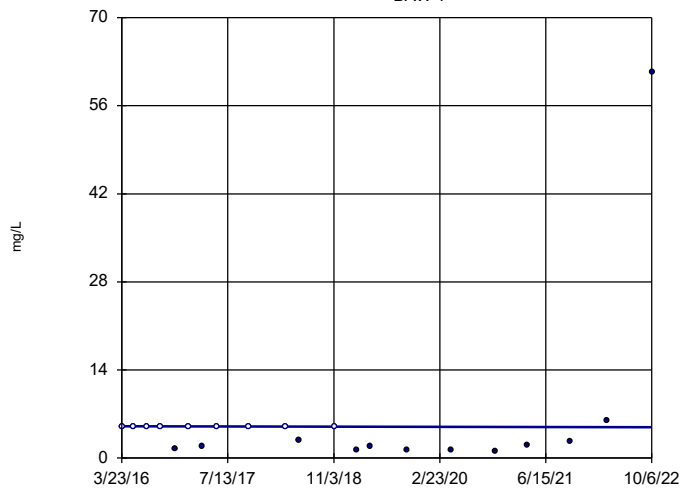
BAW-5



Constituent: Sulfate Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator

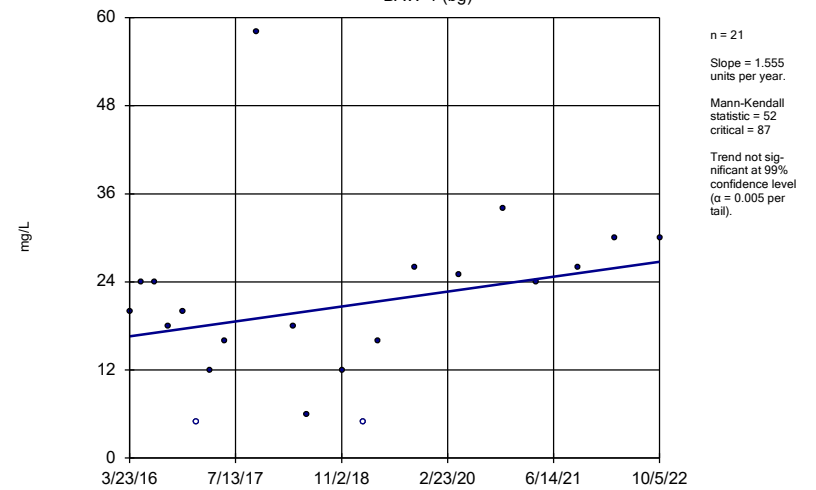
BAW-7



Constituent: Sulfate Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exceedances
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

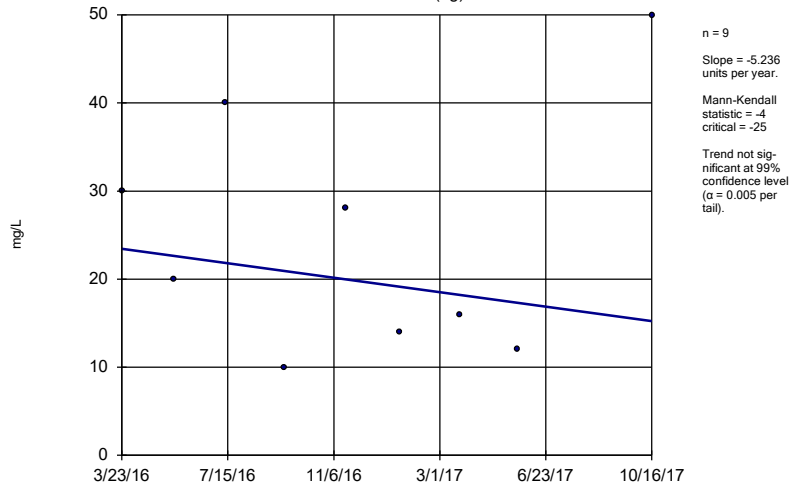
Sen's Slope Estimator

BAW-1 (bg)



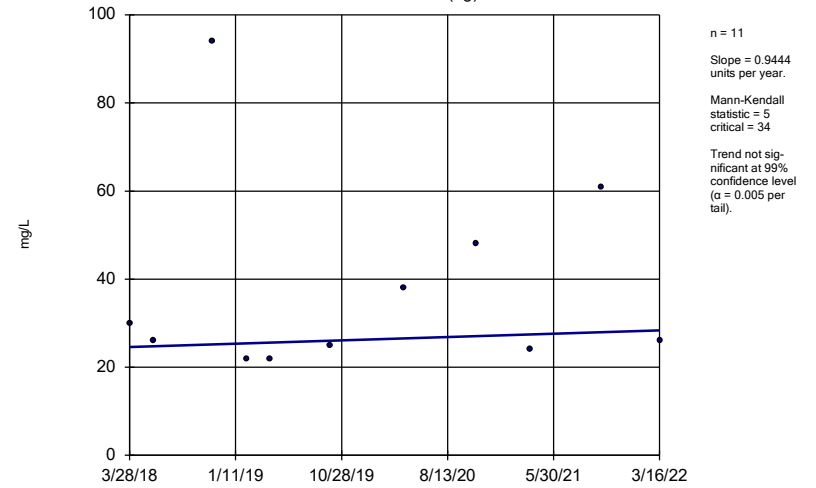
Constituent: Total Dissolved Solids Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exce
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator
BAW-2 (bg)



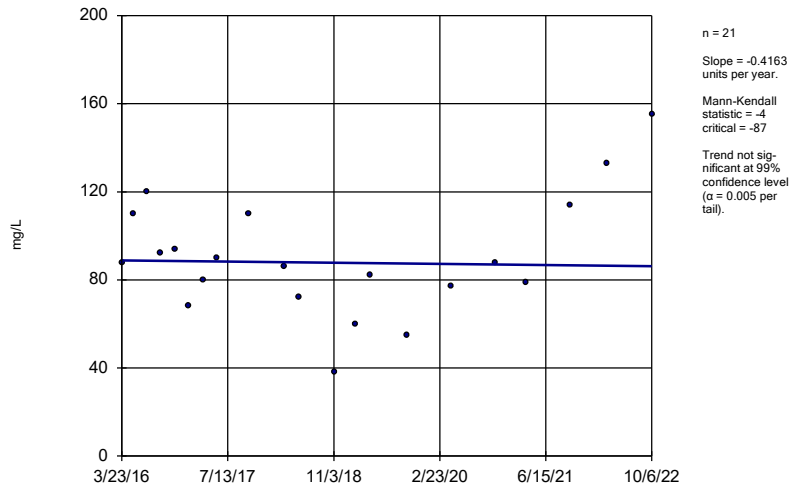
Constituent: Total Dissolved Solids Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exce
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator
BAW-2A (bg)



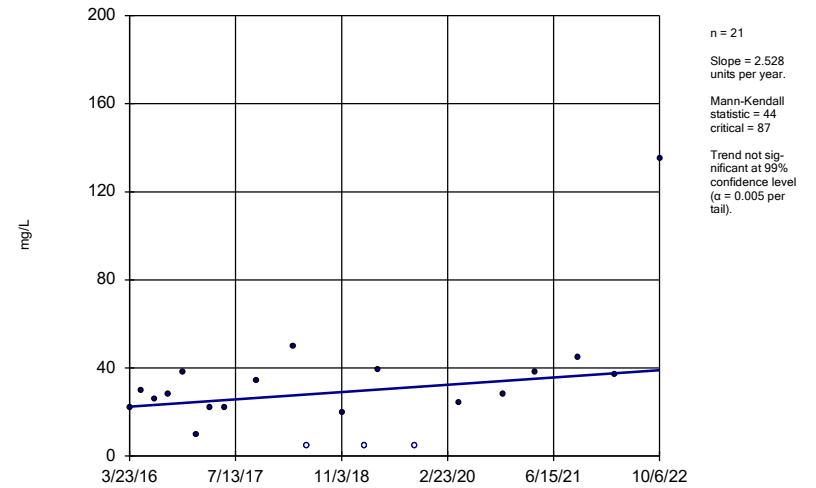
Constituent: Total Dissolved Solids Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exce
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator
BAW-5



Constituent: Total Dissolved Solids Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exce
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Sen's Slope Estimator
BAW-7



Constituent: Total Dissolved Solids Analysis Run 11/2/2022 10:07 AM View: Trend Tests - App III PL Exce
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

FIGURE F.

Upper Tolerance Limits

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 12/7/2022, 3:14 PM

| Constituent | Well | Upper Lim. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|------|------------|------|---------|-----------|-------|---------|-----------|--------|---------------------|
| Antimony (mg/L) | n/a | 0.002 | 35 | n/a | n/a | 97.14 | n/a | n/a | 0.1661 | NP Inter(NDs) |
| Arsenic (mg/L) | n/a | 0.001 | 41 | n/a | n/a | 100 | n/a | n/a | 0.1221 | NP Inter(NDs) |
| Barium (mg/L) | n/a | 0.0512 | 41 | n/a | n/a | 2.439 | n/a | n/a | 0.1221 | NP Inter(normality) |
| Beryllium (mg/L) | n/a | 0.001 | 37 | n/a | n/a | 97.3 | n/a | n/a | 0.1499 | NP Inter(NDs) |
| Cadmium (mg/L) | n/a | 0.001 | 41 | n/a | n/a | 97.56 | n/a | n/a | 0.1221 | NP Inter(NDs) |
| Chromium (mg/L) | n/a | 0.00286 | 39 | n/a | n/a | 89.74 | n/a | n/a | 0.1353 | NP Inter(NDs) |
| Cobalt (mg/L) | n/a | 0.002 | 41 | n/a | n/a | 7.317 | n/a | n/a | 0.1221 | NP Inter(normality) |
| Combined Radium 226 + 228 (pCi/L) | n/a | 2.5 | 41 | n/a | n/a | 4.878 | n/a | n/a | 0.1221 | NP Inter(normality) |
| Fluoride (mg/L) | n/a | 0.1 | 43 | n/a | n/a | 90.7 | n/a | n/a | 0.1102 | NP Inter(NDs) |
| Lead (mg/L) | n/a | 0.001 | 39 | n/a | n/a | 100 | n/a | n/a | 0.1353 | NP Inter(NDs) |
| Lithium (mg/L) | n/a | 0.00505 | 40 | n/a | n/a | 70 | n/a | n/a | 0.1285 | NP Inter(NDs) |
| Mercury (mg/L) | n/a | 0.0002 | 33 | n/a | n/a | 93.94 | n/a | n/a | 0.184 | NP Inter(NDs) |
| Molybdenum (mg/L) | n/a | 0.005 | 37 | n/a | n/a | 89.19 | n/a | n/a | 0.1499 | NP Inter(NDs) |
| Selenium (mg/L) | n/a | 0.005 | 37 | n/a | n/a | 83.78 | n/a | n/a | 0.1499 | NP Inter(NDs) |
| Thallium (mg/L) | n/a | 0.001 | 37 | n/a | n/a | 97.3 | n/a | n/a | 0.1499 | NP Inter(NDs) |

FIGURE G.

| PLANT DANIEL BOTTOM ASH 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 | | 0.001 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.051 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.001 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.001 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0029 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.002 | 0.006 |
| Combined Radium, Total (pCi/L) | 5 | | 2.5 | 5 |
| Fluoride, Total (mg/L) | 4 | | 0.1 | 4 |
| Lead, Total (mg/L) | 0.015 | | 0.001 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.0051 | 0.04 |
| Mercury, Total (mg/L) | 0.002 | | 0.0002 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.005 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals - Significant Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 12/7/2022, 3:19 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|----------------|-------|------------|------------|------------|------|----|--------|-----------|------|---------|-----------|-------|--------|
| Lithium (mg/L) | BAW-5 | 0.1909 | 0.1499 | 0.04 | Yes | 21 | 0.1658 | 0.04547 | 0 | None | x^2 | 0.01 | Param. |

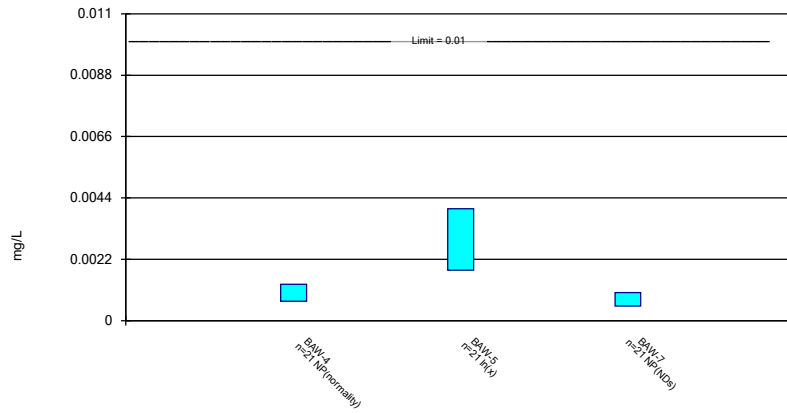
Confidence Intervals - All Results

Plant Daniel Client: Southern Company Data: Bottom Ash CCR Printed 12/7/2022, 3:19 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|--------------|---------------|---------------|-------------|------------|-----------|---------------|----------------|----------|-------------|------------|-------------|----------------|
| Arsenic (mg/L) | BAW-4 | 0.0013 | 0.00069 | 0.01 | No | 21 | 0.001315 | 0.001121 | 19.05 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | BAW-5 | 0.004008 | 0.001811 | 0.01 | No | 21 | 0.003586 | 0.003312 | 0 | None | ln(x) | 0.01 | Param. |
| Arsenic (mg/L) | BAW-7 | 0.001 | 0.00052 | 0.01 | No | 21 | 0.0009533 | 0.0001474 | 90.48 | None | No | 0.01 | NP (NDs) |
| Barium (mg/L) | BAW-3 | 0.03086 | 0.02234 | 2 | No | 21 | 0.0266 | 0.00772 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | BAW-4 | 0.012 | 0.00888 | 2 | No | 21 | 0.01294 | 0.007289 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | BAW-5 | 0.046 | 0.039 | 2 | No | 21 | 0.04606 | 0.009499 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | BAW-7 | 0.014 | 0.011 | 2 | No | 21 | 0.01694 | 0.01794 | 0 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | BAW-7 | 0.001 | 0.000185 | 0.004 | No | 19 | 0.0009571 | 0.000187 | 94.74 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | BAW-3 | 0.0009016 | 0.0005983 | 0.005 | No | 21 | 0.0007499 | 0.0002749 | 4.762 | None | No | 0.01 | Param. |
| Cadmium (mg/L) | BAW-5 | 0.001 | 0.000155 | 0.005 | No | 21 | 0.0009598 | 0.0001844 | 95.24 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-3 | 0.003 | 0.00165 | 0.1 | No | 20 | 0.002888 | 0.003824 | 85 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-4 | 0.002 | 0.0015 | 0.1 | No | 20 | 0.001905 | 0.0002438 | 85 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-5 | 0.0024 | 0.0012 | 0.1 | No | 20 | 0.00213 | 0.0007057 | 85 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | BAW-7 | 0.00206 | 0.002 | 0.1 | No | 20 | 0.002003 | 0.00001342 | 95 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | BAW-3 | 0.006271 | 0.004868 | 0.006 | No | 21 | 0.00557 | 0.001272 | 0 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | BAW-4 | 0.001358 | 0.001006 | 0.006 | No | 21 | 0.001202 | 0.0003495 | 0 | None | x^(1/3) | 0.01 | Param. |
| Cobalt (mg/L) | BAW-5 | 0.000802 | 0.00042 | 0.006 | No | 21 | 0.0005771 | 0.0002298 | 80.95 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | BAW-7 | 0.001 | 0.000705 | 0.006 | No | 21 | 0.0011 | 0.001022 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-3 | 0.78 | 0.126 | 5 | No | 21 | 0.6023 | 0.7205 | 9.524 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | BAW-4 | 0.7712 | 0.1114 | 5 | No | 21 | 0.6262 | 0.8202 | 14.29 | None | x^(1/3) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | BAW-5 | 0.8564 | 0.3395 | 5 | No | 20 | 0.6551 | 0.562 | 5 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | BAW-7 | 1.07 | 0.2882 | 5 | No | 21 | 0.8112 | 0.8459 | 14.29 | None | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | BAW-3 | 0.1 | 0.034 | 4 | No | 22 | 0.09385 | 0.01991 | 90.91 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | BAW-4 | 0.0544 | 0.04 | 4 | No | 22 | 0.05858 | 0.02669 | 27.27 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | BAW-5 | 0.07 | 0.05 | 4 | No | 22 | 0.06407 | 0.02828 | 4.545 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | BAW-7 | 0.1 | 0.0415 | 4 | No | 22 | 0.094 | 0.01954 | 90.91 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-3 | 0.001 | 0.000236 | 0.015 | No | 20 | 0.0006714 | 0.0003848 | 55 | None | No | 0.01 | NP (normality) |
| Lead (mg/L) | BAW-4 | 0.001 | 0.00042 | 0.015 | No | 20 | 0.0008577 | 0.0002969 | 80 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-5 | 0.001 | 0.000152 | 0.015 | No | 20 | 0.0009576 | 0.0001896 | 95 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | BAW-7 | 0.001 | 0.000129 | 0.015 | No | 20 | 0.0009565 | 0.0001948 | 95 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | BAW-3 | 0.005 | 0.00322 | 0.04 | No | 21 | 0.004408 | 0.001284 | 66.67 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | BAW-4 | 0.0267 | 0.021 | 0.04 | No | 21 | 0.02313 | 0.007405 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | BAW-5 | 0.1909 | 0.1499 | 0.04 | Yes | 21 | 0.1658 | 0.04547 | 0 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | BAW-7 | 0.005 | 0.0035 | 0.04 | No | 21 | 0.004714 | 0.001979 | 57.14 | None | No | 0.01 | NP (normality) |
| Mercury (mg/L) | BAW-3 | 0.000497 | 0.00013 | 0.002 | No | 17 | 0.0002065 | 0.00008133 | 82.35 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-4 | 0.0002 | 0.00013 | 0.002 | No | 17 | 0.0001884 | 0.00003423 | 88.24 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-5 | 0.0002 | 0.000074 | 0.002 | No | 17 | 0.0001926 | 0.00003056 | 94.12 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | BAW-7 | 0.000235 | 0.000151 | 0.002 | No | 17 | 0.0002504 | 0.0002471 | 76.47 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | BAW-4 | 0.015 | 0.00109 | 0.1 | No | 19 | 0.01141 | 0.006194 | 73.68 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | BAW-5 | 0.015 | 0.0011 | 0.1 | No | 19 | 0.006688 | 0.006061 | 31.58 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | BAW-7 | 0.005 | 0.0038 | 0.1 | No | 19 | 0.004937 | 0.0002753 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | BAW-3 | 0.005 | 0.00038 | 0.05 | No | 19 | 0.003336 | 0.002243 | 63.16 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | BAW-5 | 0.005 | 0.00033 | 0.05 | No | 19 | 0.004754 | 0.001071 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | BAW-7 | 0.005 | 0.00036 | 0.05 | No | 19 | 0.003857 | 0.002001 | 73.68 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | BAW-3 | 0.001 | 0.000276 | 0.002 | No | 19 | 0.0008218 | 0.0003564 | 78.95 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | BAW-7 | 0.001 | 0.000153 | 0.002 | No | 19 | 0.0009554 | 0.0001943 | 94.74 | None | No | 0.01 | NP (NDs) |

Parametric and Non-Parametric (NP) Confidence Interval

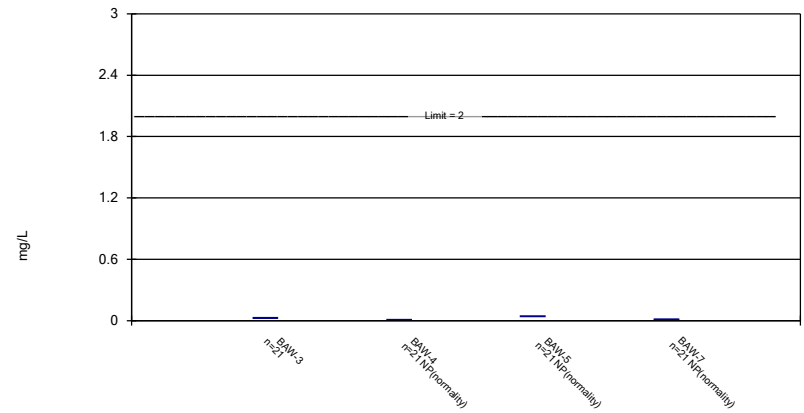
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Parametric and Non-Parametric (NP) Confidence Interval

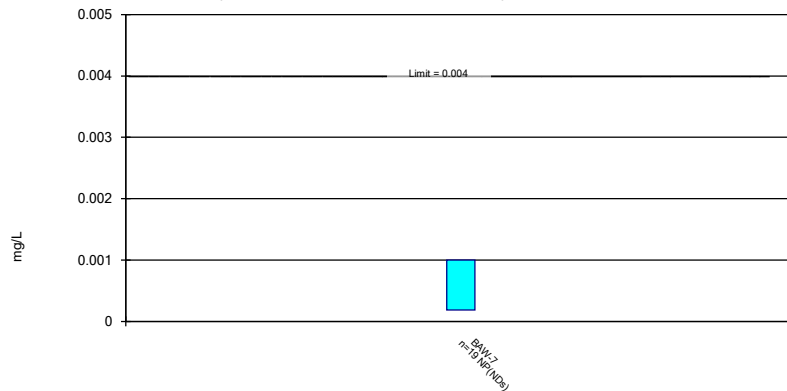
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Non-Parametric Confidence Interval

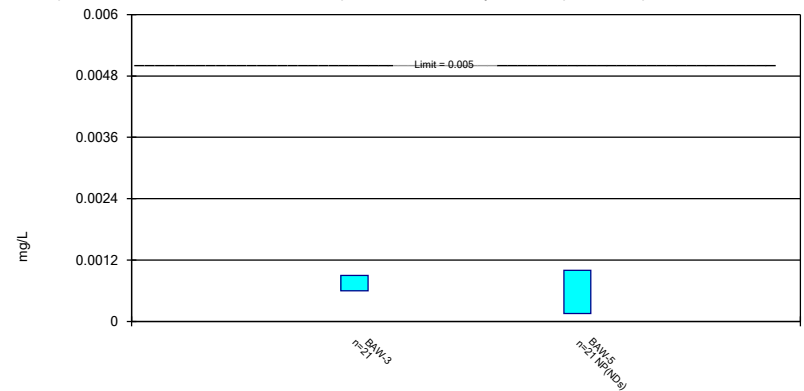
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Parametric and Non-Parametric (NP) Confidence Interval

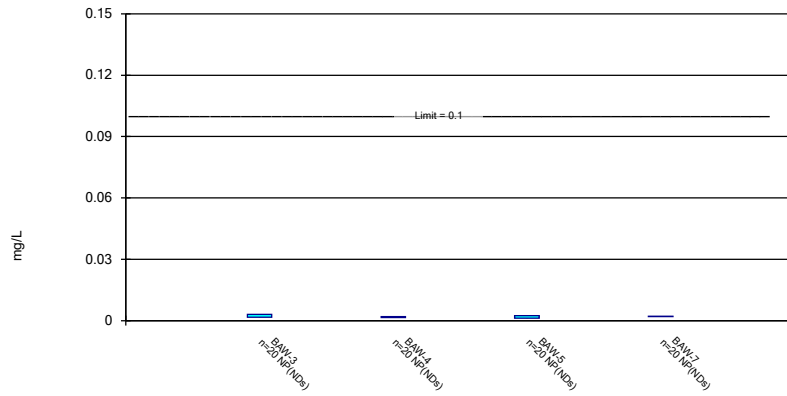
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Constituent: Cadmium Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Non-Parametric Confidence Interval

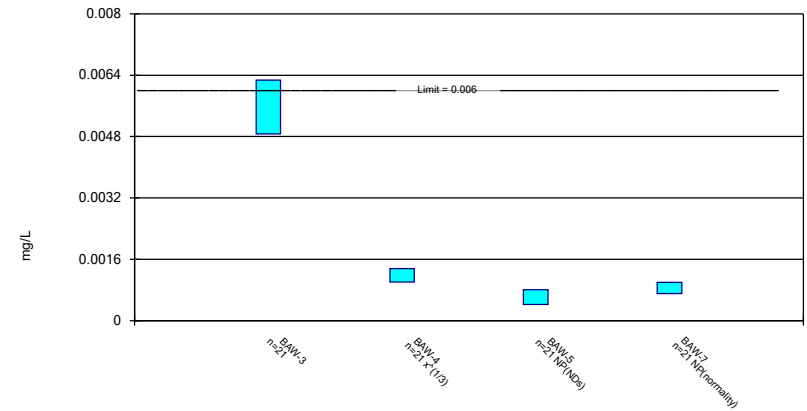
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Parametric and Non-Parametric (NP) Confidence Interval

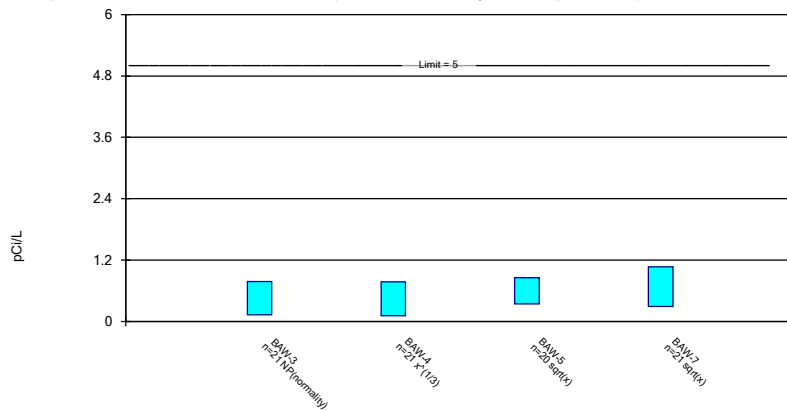
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Parametric and Non-Parametric (NP) Confidence Interval

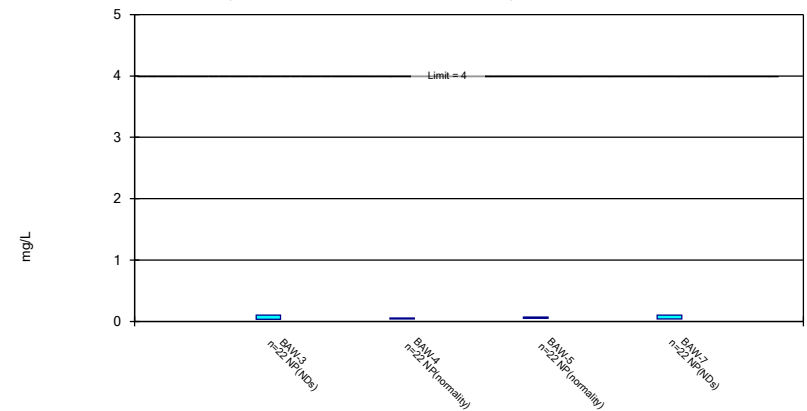
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Non-Parametric Confidence Interval

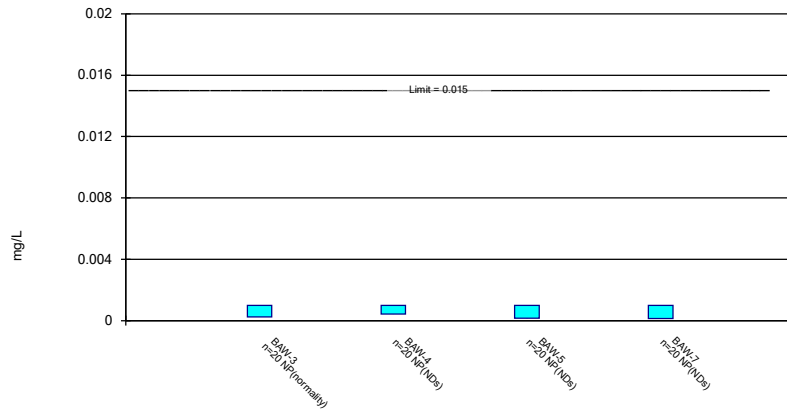
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Non-Parametric Confidence Interval

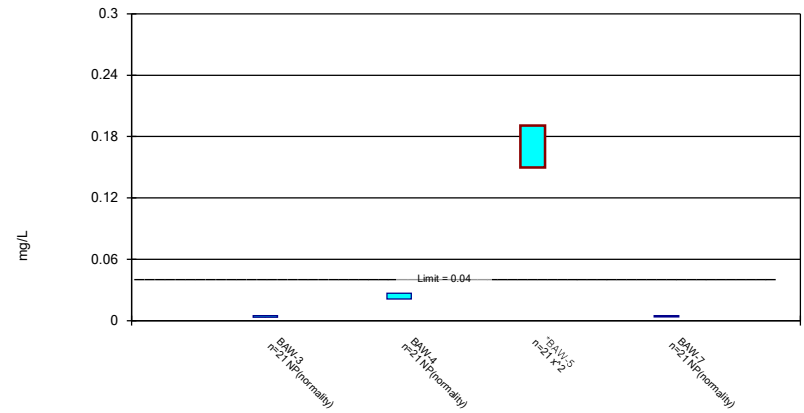
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Parametric and Non-Parametric (NP) Confidence Interval

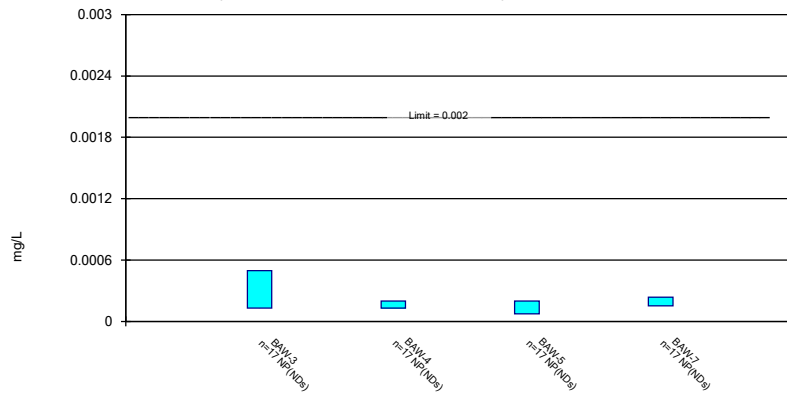
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Non-Parametric Confidence Interval

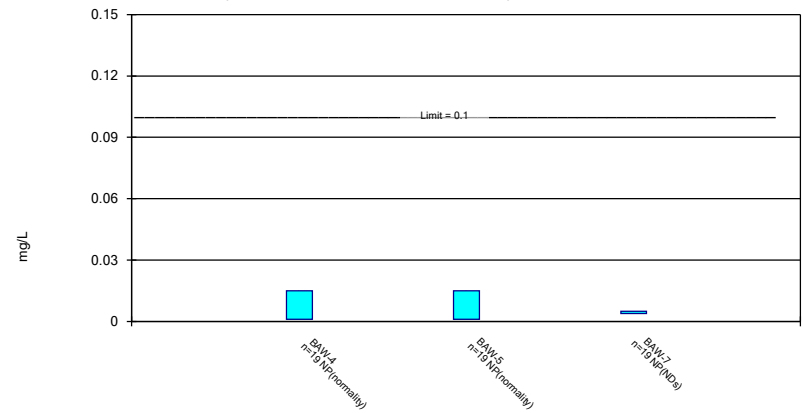
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Non-Parametric Confidence Interval

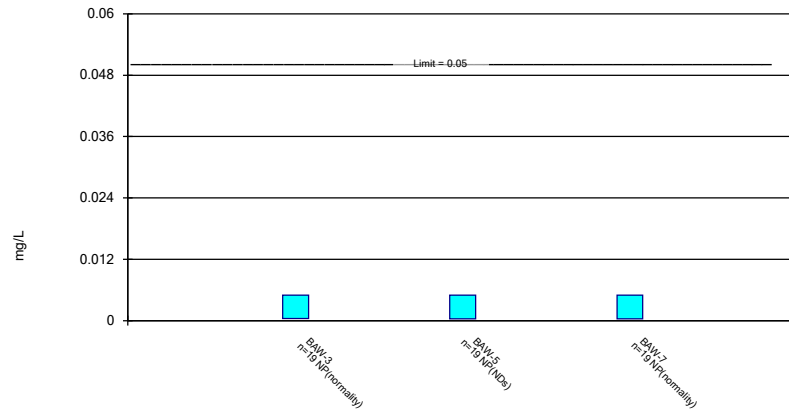
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
 Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Non-Parametric Confidence Interval

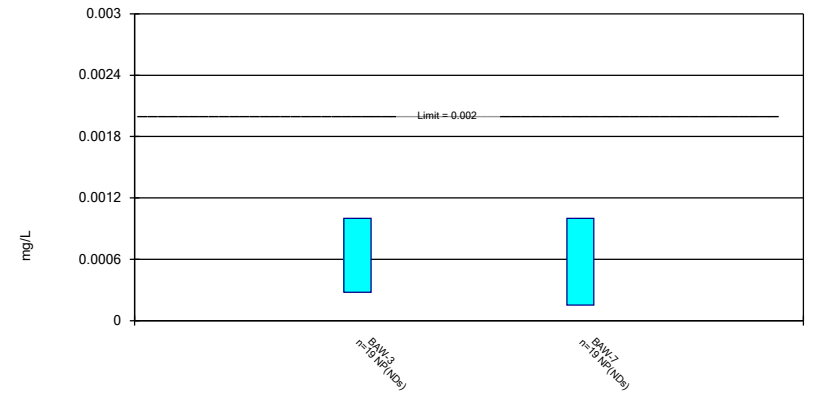
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Non-Parametric Confidence Interval

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



Constituent: Thallium Analysis Run 12/7/2022 3:17 PM View: Confidence Intervals
Plant Daniel Client: Southern Company Data: Bottom Ash CCR

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-4 | BAW-5 | BAW-7 |
|------------|--------------|-------------|-------------|
| 3/23/2016 | 0.00087 (J) | 0.0033 | <0.001 |
| 5/17/2016 | <0.0013 | 0.00089 (J) | <0.001 |
| 7/12/2016 | | | <0.001 |
| 7/13/2016 | 0.00081 (J) | 0.0039 | |
| 9/13/2016 | | 0.0039 | <0.001 |
| 9/14/2016 | 0.00069 (J) | | |
| 11/19/2016 | 0.0013 | 0.0037 | 0.0005 (J) |
| 1/17/2017 | | | <0.001 |
| 1/18/2017 | <0.0013 | 0.0016 | |
| 3/22/2017 | | | 0.00052 (J) |
| 3/23/2017 | 0.00078 (J) | 0.0017 | |
| 5/24/2017 | 0.001 (J) | 0.0021 | <0.001 |
| 3/28/2018 | <0.0013 | 0.0011 (J) | |
| 3/29/2018 | | | <0.001 |
| 6/2/2018 | 0.00068 (J) | 0.0017 | <0.001 |
| 11/8/2018 | <0.0013 | | |
| 11/9/2018 | | 0.0021 | <0.001 |
| 2/11/2019 | 0.000737 (J) | 0.00232 | |
| 2/12/2019 | | | <0.001 |
| 4/17/2019 | 0.000645 (J) | 0.00218 | |
| 4/18/2019 | | | <0.001 |
| 9/27/2019 | | | <0.001 |
| 9/30/2019 | 0.000821 (J) | 0.00272 | |
| 2/21/2020 | | | <0.001 |
| 2/22/2020 | 0.000837 (J) | 0.00177 | |
| 4/14/2020 | 0.000896 (J) | 0.00177 | <0.001 |
| 10/30/2020 | 0.000529 (J) | 0.0013 | |
| 11/2/2020 | | | <0.001 |
| 3/17/2021 | 0.000454 (J) | 0.00385 | |
| 3/26/2021 | | | <0.001 |
| 10/5/2021 | 0.00259 | | <0.001 |
| 10/6/2021 | | 0.0125 | |
| 3/16/2022 | 0.00411 | 0.0101 | <0.001 |
| 10/5/2022 | 0.00467 | | |
| 10/6/2022 | | 0.0108 | <0.001 |
| Mean | 0.001315 | 0.003586 | 0.0009533 |
| Std. Dev. | 0.001121 | 0.003312 | 0.0001474 |
| Upper Lim. | 0.0013 | 0.004008 | 0.001 |
| Lower Lim. | 0.00069 | 0.001811 | 0.00052 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|---------|-------------|----------|---------|
| 3/23/2016 | 0.013 | 0.011 | 0.044 | 0.013 |
| 5/17/2016 | | 0.0085 | 0.055 | 0.012 |
| 5/18/2016 | 0.012 | | | |
| 7/12/2016 | | | | 0.011 |
| 7/13/2016 | 0.016 | 0.0073 | 0.041 | |
| 9/13/2016 | | | 0.046 | 0.012 |
| 9/14/2016 | 0.018 | 0.0095 | | |
| 11/19/2016 | 0.021 | 0.012 | 0.044 | 0.012 |
| 1/17/2017 | 0.029 | | | 0.014 |
| 1/18/2017 | | 0.0096 | 0.045 | |
| 3/22/2017 | | | | 0.012 |
| 3/23/2017 | 0.024 | 0.0093 | 0.038 | |
| 5/24/2017 | 0.022 | 0.0096 | 0.046 | 0.012 |
| 3/28/2018 | 0.026 | 0.0086 | 0.043 | |
| 3/29/2018 | | | | 0.011 |
| 6/2/2018 | 0.029 | 0.0087 | 0.043 | 0.011 |
| 11/8/2018 | 0.028 | 0.0091 | | |
| 11/9/2018 | | | 0.039 | 0.011 |
| 2/11/2019 | | 0.00931 | 0.0388 | |
| 2/12/2019 | 0.0274 | | | 0.0102 |
| 4/17/2019 | 0.0263 | 0.00888 | 0.0378 | |
| 4/18/2019 | | | | 0.0101 |
| 9/27/2019 | | | | 0.0121 |
| 9/30/2019 | 0.0343 | 0.0103 | 0.0424 | |
| 2/21/2020 | 0.0304 | | | 0.0117 |
| 2/22/2020 | | 0.0108 | 0.0453 | |
| 4/14/2020 | 0.0335 | 0.00949 (J) | 0.0452 | 0.0124 |
| 10/30/2020 | 0.0349 | 0.0116 | 0.0428 | |
| 11/2/2020 | | | | 0.0117 |
| 3/17/2021 | | 0.0224 | 0.0382 | |
| 3/26/2021 | 0.0253 | | | 0.0184 |
| 10/5/2021 | | 0.0283 | | 0.02 |
| 10/6/2021 | 0.03 | | 0.0493 | |
| 3/16/2022 | 0.037 | 0.0326 | 0.0688 | 0.0245 |
| 10/5/2022 | 0.0415 | 0.0248 | | |
| 10/6/2022 | | | 0.0747 | 0.0937 |
| Mean | 0.0266 | 0.01294 | 0.04606 | 0.01694 |
| Std. Dev. | 0.00772 | 0.007289 | 0.009499 | 0.01794 |
| Upper Lim. | 0.03086 | 0.012 | 0.046 | 0.014 |
| Lower Lim. | 0.02234 | 0.00888 | 0.039 | 0.011 |

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-7 |
|------------|--------------|
| 3/23/2016 | <0.001 |
| 5/17/2016 | <0.001 |
| 7/12/2016 | <0.001 |
| 9/13/2016 | <0.001 |
| 11/19/2016 | <0.001 |
| 1/17/2017 | <0.001 |
| 3/22/2017 | <0.001 |
| 5/24/2017 | <0.001 |
| 3/29/2018 | <0.001 |
| 11/9/2018 | <0.001 |
| 2/12/2019 | <0.001 |
| 4/18/2019 | <0.001 |
| 2/21/2020 | <0.001 |
| 4/14/2020 | <0.001 |
| 11/2/2020 | <0.001 |
| 3/26/2021 | <0.001 |
| 10/5/2021 | 0.000185 (J) |
| 3/16/2022 | <0.001 |
| 10/6/2022 | <0.001 |
| Mean | 0.0009571 |
| Std. Dev. | 0.000187 |
| Upper Lim. | 0.001 |
| Lower Lim. | 0.000185 |

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-5 |
|------------|--------------|--------------|
| 3/23/2016 | 0.00041 (J) | <0.001 |
| 5/17/2016 | | <0.001 |
| 5/18/2016 | <0.0025 | |
| 7/13/2016 | 0.00087 (J) | <0.001 |
| 9/13/2016 | | <0.001 |
| 9/14/2016 | 0.00078 (J) | |
| 11/19/2016 | 0.00054 (J) | <0.001 |
| 1/17/2017 | 0.00048 (J) | |
| 1/18/2017 | | <0.001 |
| 3/23/2017 | 0.00059 (J) | <0.001 |
| 5/24/2017 | 0.00081 (J) | <0.001 |
| 3/28/2018 | 0.0008 (J) | <0.001 |
| 6/2/2018 | 0.001 (J) | <0.001 |
| 11/8/2018 | 0.00085 (J) | |
| 11/9/2018 | | <0.001 |
| 2/11/2019 | | <0.001 |
| 2/12/2019 | 0.000877 (J) | |
| 4/17/2019 | 0.000915 (J) | <0.001 |
| 9/30/2019 | 0.00112 (J) | 0.000155 (J) |
| 2/21/2020 | 0.000962 (J) | |
| 2/22/2020 | | <0.001 |
| 4/14/2020 | 0.00107 (J) | <0.001 |
| 10/30/2020 | 0.00084 (J) | <0.001 |
| 3/17/2021 | | <0.001 |
| 3/26/2021 | 0.000615 (J) | |
| 10/6/2021 | 0.000338 (J) | <0.001 |
| 3/16/2022 | 0.000252 (J) | <0.001 |
| 10/5/2022 | 0.000379 (J) | |
| 10/6/2022 | | <0.001 |
| Mean | 0.0007499 | 0.0009598 |
| Std. Dev. | 0.0002749 | 0.0001844 |
| Upper Lim. | 0.0009016 | 0.001 |
| Lower Lim. | 0.0005983 | 0.000155 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|-------------|------------|------------|-------------|
| 3/23/2016 | <0.002 | 0.0015 (J) | 0.0012 (J) | <0.002 |
| 5/17/2016 | | <0.002 | <0.002 | <0.002 |
| 5/18/2016 | <0.002 | | | |
| 7/12/2016 | | | | <0.002 |
| 7/13/2016 | 0.003 | 0.0015 (J) | 0.0024 (J) | |
| 9/13/2016 | | | <0.002 | <0.002 |
| 9/14/2016 | <0.002 | <0.002 | | |
| 11/19/2016 | <0.002 | 0.0011 (J) | <0.002 | <0.002 |
| 1/17/2017 | <0.002 | | | <0.002 |
| 1/18/2017 | | <0.002 | <0.002 | |
| 3/22/2017 | | | | <0.002 |
| 3/23/2017 | <0.002 | <0.002 | <0.002 | |
| 5/24/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 3/28/2018 | <0.002 | <0.002 | 0.005 | |
| 3/29/2018 | | | | <0.002 |
| 6/2/2018 | <0.002 | <0.002 | <0.002 | <0.002 |
| 11/8/2018 | <0.002 | <0.002 | | |
| 11/9/2018 | | | <0.002 | <0.002 |
| 2/11/2019 | | <0.002 | <0.002 | |
| 2/12/2019 | 0.00165 (J) | | | <0.002 |
| 4/17/2019 | <0.002 | <0.002 | <0.002 | |
| 4/18/2019 | | | | <0.002 |
| 9/27/2019 | | | | 0.00206 (J) |
| 9/30/2019 | <0.002 | <0.002 | <0.002 | |
| 2/21/2020 | <0.002 | | | <0.002 |
| 2/22/2020 | | <0.002 | <0.002 | |
| 10/30/2020 | <0.002 | <0.002 | <0.002 | |
| 11/2/2020 | | | | <0.002 |
| 3/17/2021 | | <0.002 | <0.002 | |
| 3/26/2021 | <0.002 | | | <0.002 |
| 10/5/2021 | | <0.002 | | <0.002 |
| 10/6/2021 | <0.002 | | <0.002 | |
| 3/16/2022 | <0.002 | <0.002 | <0.002 | <0.002 |
| 10/5/2022 | 0.0191 | <0.002 | | |
| 10/6/2022 | | | <0.002 | <0.002 |
| Mean | 0.002888 | 0.001905 | 0.00213 | 0.002003 |
| Std. Dev. | 0.003824 | 0.0002438 | 0.0007057 | 1.342E-05 |
| Upper Lim. | 0.003 | 0.002 | 0.0024 | 0.00206 |
| Lower Lim. | 0.00165 | 0.0015 | 0.0012 | 0.002 |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|----------|--------------|-------------|--------------|
| 3/23/2016 | 0.0055 | 0.00094 (J) | <0.0005 | 0.0011 (J) |
| 5/17/2016 | | 0.0007 (J) | <0.0005 | 0.001 (J) |
| 5/18/2016 | 0.0059 | | | |
| 7/12/2016 | | | | 0.00091 (J) |
| 7/13/2016 | 0.0048 | 0.0016 (J) | 0.00042 (J) | |
| 9/13/2016 | | | <0.0005 | 0.001 (J) |
| 9/14/2016 | 0.0063 | 0.0011 (J) | | |
| 11/19/2016 | 0.0056 | 0.0012 (J) | <0.0005 | 0.00083 (J) |
| 1/17/2017 | 0.0046 | | | 0.00091 (J) |
| 1/18/2017 | | 0.0011 (J) | <0.0005 | |
| 3/22/2017 | | | | 0.00098 (J) |
| 3/23/2017 | 0.0049 | 0.0011 (J) | <0.0005 | |
| 5/24/2017 | 0.0052 | 0.0012 (J) | <0.0005 | 0.00098 (J) |
| 3/28/2018 | 0.0063 | 0.00095 (J) | <0.0005 | |
| 3/29/2018 | | | | 0.00063 (J) |
| 6/2/2018 | 0.0068 | 0.0012 (J) | <0.0005 | 0.00087 (J) |
| 11/8/2018 | 0.0068 | 0.0011 (J) | | |
| 11/9/2018 | | | <0.0005 | 0.00076 (J) |
| 2/11/2019 | | 0.00093 (J) | <0.0005 | |
| 2/12/2019 | 0.00552 | | | 0.000661 (J) |
| 4/17/2019 | 0.00603 | 0.00116 (J) | <0.0005 | |
| 4/18/2019 | | | | 0.000705 (J) |
| 9/27/2019 | | | | 0.00071 (J) |
| 9/30/2019 | 0.0062 | 0.001 (J) | <0.0005 | |
| 2/21/2020 | 0.00576 | | | 0.000634 (J) |
| 2/22/2020 | | 0.000907 (J) | <0.0005 | |
| 4/14/2020 | 0.00633 | 0.00105 (J) | <0.0005 | 0.000684 (J) |
| 10/30/2020 | 0.00657 | 0.00102 (J) | <0.0005 | |
| 11/2/2020 | | | | 0.000729 (J) |
| 3/17/2021 | | 0.00208 | <0.0005 | |
| 3/26/2021 | 0.00339 | | | 0.000995 |
| 10/5/2021 | | 0.00187 | | 0.00112 |
| 10/6/2021 | 0.00336 | | 0.000802 | |
| 3/16/2022 | 0.00289 | 0.00182 | 0.000967 | 0.00141 |
| 10/5/2022 | 0.00821 | 0.00121 | | |
| 10/6/2022 | | | 0.00143 | 0.00548 |
| Mean | 0.00557 | 0.001202 | 0.0005771 | 0.0011 |
| Std. Dev. | 0.001272 | 0.0003495 | 0.0002298 | 0.001022 |
| Upper Lim. | 0.006271 | 0.001358 | 0.000802 | 0.001 |
| Lower Lim. | 0.004868 | 0.001006 | 0.00042 | 0.000705 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|-------------|-------------|------------|-------------|
| 3/23/2016 | <5 | <5 | 0.549 | <5 |
| 5/17/2016 | | <5 | 0.551 | <5 |
| 5/18/2016 | <5 | | | |
| 7/12/2016 | | | | 0.165 (U) |
| 7/13/2016 | 0.27 (U) | 0.0365 (U) | 0.859 | |
| 9/13/2016 | | | 0.367 (U) | 0.341 (U) |
| 9/14/2016 | -0.0909 (U) | 0.3 (U) | | |
| 11/19/2016 | 0.416 | <5 (U) | <5 (U) | <5 (U) |
| 1/17/2017 | 0.412 (U) | | | 0.124 (U) |
| 1/18/2017 | | 0.235 (U) | 0.289 (U) | |
| 3/22/2017 | | | | 0.0719 (U) |
| 3/23/2017 | 0.0761 (U) | 0.168 (U) | 0.554 | |
| 5/24/2017 | 0.0415 (U) | -0.0607 (U) | 0.831 | 0.441 |
| 3/28/2018 | 0.398 | 0.42 | 0.458 | |
| 3/29/2018 | | | | 0.731 |
| 6/2/2018 | -0.253 (U) | 0.0844 (U) | 0.226 (U) | 0.303 (U) |
| 11/8/2018 | 0.343 (U) | 0.367 (U) | | |
| 11/9/2018 | | | 0.298 (U) | 0.00226 (U) |
| 2/11/2019 | | 0.0402 (U) | 0.15 (U) | |
| 2/12/2019 | 0.581 | | | 0.094 (U) |
| 4/17/2019 | 0.646 | 0.493 | 0.326 (U) | |
| 4/18/2019 | | | | 0.48 |
| 9/27/2019 | | | | 0.497 |
| 9/30/2019 | 1 | 0.404 | | |
| 2/21/2020 | 0.126 (U) | | | 0.375 |
| 2/22/2020 | | 0.53 | 0.47 | |
| 4/14/2020 | 0.338 | 0.0408 (U) | 0.376 (U) | 0.329 (U) |
| 10/30/2020 | 0.485 | 0.344 | 0.528 | |
| 11/2/2020 | | | | 0.535 |
| 3/17/2021 | | 0.312 (U) | 0.0889 (U) | |
| 3/26/2021 | 0.78 | | | 0.813 |
| 10/5/2021 | | 1.06 | | 0.814 |
| 10/6/2021 | 0.503 | | 0.931 | |
| 3/16/2022 | 0.286 (U) | 0.314 (U) | 1.39 | 1.39 |
| 10/21/2022 | 1.29 | 0.562 (U) | 1.36 | 2.03 |
| Mean | 0.6023 | 0.6262 | 0.6551 | 0.8112 |
| Std. Dev. | 0.7205 | 0.8202 | 0.562 | 0.8459 |
| Upper Lim. | 0.78 | 0.7712 | 0.8564 | 1.07 |
| Lower Lim. | 0.126 | 0.1114 | 0.3395 | 0.2882 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|------------|------------|------------|------------|
| 3/23/2016 | <0.1 | 0.04 (J) | 0.06 (J) | <0.1 |
| 5/17/2016 | | 0.04 (J) | 0.07 (J) | <0.1 |
| 5/18/2016 | <0.1 | | | |
| 7/12/2016 | | | | <0.1 |
| 7/13/2016 | <0.1 | 0.05 (J) | 0.08 (J) | |
| 9/13/2016 | | | 0.06 (J) | <0.1 |
| 9/14/2016 | <0.1 | 0.04 (J) | | |
| 11/19/2016 | <0.1 | 0.04 (J) | 0.06 (J) | <0.1 |
| 1/17/2017 | <0.1 | | | <0.1 |
| 1/18/2017 | | <0.1 | 0.05 (J) | |
| 3/22/2017 | | | | <0.1 |
| 3/23/2017 | <0.1 | <0.1 | 0.05 (J) | |
| 5/24/2017 | <0.1 | 0.04 (J) | 0.06 (J) | <0.1 (D) |
| 10/16/2017 | <0.1 | <0.1 | 0.06 (J) | <0.1 |
| 3/28/2018 | <0.1 | 0.04 (J) | 0.06 (J) | |
| 3/29/2018 | | | | <0.1 |
| 6/2/2018 | <0.1 | 0.05 (J) | 0.06 (J) | <0.1 |
| 11/8/2018 | <0.1 | 0.05 (J) | | |
| 11/9/2018 | | | 0.06 (J) | <0.1 |
| 2/11/2019 | | <0.1 | 0.0368 (J) | |
| 2/12/2019 | <0.1 | | | <0.1 |
| 4/17/2019 | <0.1 | 0.033 (J) | 0.0421 (J) | |
| 4/18/2019 | | | | <0.1 |
| 9/27/2019 | | | | <0.1 |
| 9/30/2019 | <0.1 | <0.1 | 0.045 (J) | |
| 2/21/2020 | <0.1 | | | <0.1 |
| 2/22/2020 | | 0.0317 (J) | 0.0434 (J) | |
| 4/14/2020 | 0.034 (J) | 0.0508 (J) | 0.059 (J) | 0.0415 (J) |
| 10/30/2020 | <0.1 | <0.1 | <0.1 | |
| 11/2/2020 | | | | <0.1 |
| 3/17/2021 | | 0.0544 (J) | 0.0575 (J) | |
| 3/26/2021 | <0.1 | | | <0.1 |
| 10/5/2021 | | 0.0505 (J) | | <0.1 |
| 10/6/2021 | <0.1 | | 0.0725 (J) | |
| 3/16/2022 | 0.0307 (J) | 0.0462 (J) | 0.176 | 0.0266 (J) |
| 10/5/2022 | <0.1 | 0.0322 (J) | | |
| 10/6/2022 | | | 0.0972 (J) | <0.1 |
| Mean | 0.09385 | 0.05858 | 0.06407 | 0.094 |
| Std. Dev. | 0.01991 | 0.02669 | 0.02828 | 0.01954 |
| Upper Lim. | 0.1 | 0.0544 | 0.07 | 0.1 |
| Lower Lim. | 0.034 | 0.04 | 0.05 | 0.0415 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|--------------|--------------|--------------|--------------|
| 3/23/2016 | <0.001 | 0.00039 (J) | <0.001 | <0.001 |
| 5/17/2016 | | <0.001 | <0.001 | <0.001 |
| 5/18/2016 | <0.001 | | | |
| 7/12/2016 | | | | <0.001 |
| 7/13/2016 | <0.001 | <0.001 | <0.001 | |
| 9/13/2016 | | | <0.001 | <0.001 |
| 9/14/2016 | 0.00056 (J) | <0.001 | | |
| 11/19/2016 | <0.001 | 0.00042 (J) | <0.001 | <0.001 |
| 1/17/2017 | <0.001 | | | <0.001 |
| 1/18/2017 | | <0.001 | <0.001 | |
| 3/22/2017 | | | | <0.001 |
| 3/23/2017 | 0.00038 (J) | <0.001 | <0.001 | |
| 5/24/2017 | 0.00036 (J) | <0.001 | <0.001 | <0.001 |
| 3/28/2018 | <0.001 | <0.001 | <0.001 | |
| 3/29/2018 | | | | <0.001 |
| 11/8/2018 | <0.001 | <0.001 | | |
| 11/9/2018 | | | <0.001 | <0.001 |
| 2/11/2019 | | <0.001 | <0.001 | |
| 2/12/2019 | 0.000139 (J) | | | <0.001 |
| 4/17/2019 | <0.001 | <0.001 | <0.001 | |
| 4/18/2019 | | | | <0.001 |
| 9/27/2019 | | | | 0.000129 (J) |
| 9/30/2019 | 0.000322 (J) | 0.000191 (J) | 0.000152 (J) | |
| 2/21/2020 | 0.00015 (J) | | | <0.001 |
| 2/22/2020 | | <0.001 | <0.001 | |
| 4/14/2020 | 0.000236 (J) | <0.001 | <0.001 | <0.001 |
| 10/30/2020 | 0.000136 (J) | <0.001 | <0.001 | |
| 11/2/2020 | | | | <0.001 |
| 3/17/2021 | | 0.000153 (J) | <0.001 | |
| 3/26/2021 | 0.000145 (J) | | | <0.001 |
| 10/5/2021 | | <0.001 | | <0.001 |
| 10/6/2021 | <0.001 | | <0.001 | |
| 3/16/2022 | <0.001 | <0.001 | <0.001 | <0.001 |
| 10/5/2022 | <0.001 | <0.001 | | |
| 10/6/2022 | | | <0.001 | <0.001 |
| Mean | 0.0006714 | 0.0008577 | 0.0009576 | 0.0009565 |
| Std. Dev. | 0.0003848 | 0.0002969 | 0.0001896 | 0.0001948 |
| Upper Lim. | 0.001 | 0.001 | 0.001 | 0.001 |
| Lower Lim. | 0.000236 | 0.00042 | 0.000152 | 0.000129 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|-------------|----------|---------|-------------|
| 3/23/2016 | <0.005 | 0.044 | 0.17 | <0.005 |
| 5/17/2016 | | 0.028 | 0.2 | <0.005 |
| 5/18/2016 | <0.005 | | | |
| 7/12/2016 | | | | <0.005 |
| 7/13/2016 | <0.005 | 0.026 | 0.17 | |
| 9/13/2016 | | | 0.17 | <0.005 |
| 9/14/2016 | <0.005 | 0.026 | | |
| 11/19/2016 | <0.005 | 0.026 | 0.18 | 0.0035 (J) |
| 1/17/2017 | <0.005 | | | <0.005 |
| 1/18/2017 | | 0.027 | 0.2 | |
| 3/22/2017 | | | | <0.005 |
| 3/23/2017 | <0.005 | 0.024 | 0.19 | |
| 5/24/2017 | <0.005 | 0.027 | 0.21 | <0.005 |
| 3/28/2018 | 0.0023 (J) | 0.021 | 0.23 | |
| 3/29/2018 | | | | 0.0026 (J) |
| 6/2/2018 | 0.002 (J) | 0.022 | 0.19 | 0.0029 (J) |
| 11/8/2018 | 0.0024 (J) | 0.025 | | |
| 11/9/2018 | | | 0.18 | 0.0027 (J) |
| 2/11/2019 | | 0.0229 | 0.161 | |
| 2/12/2019 | <0.005 | | | <0.005 |
| 4/17/2019 | 0.00197 (J) | 0.0236 | 0.174 | |
| 4/18/2019 | | | | 0.00238 (J) |
| 9/27/2019 | | | | 0.00375 (J) |
| 9/30/2019 | 0.00687 | 0.0249 | 0.166 | |
| 2/21/2020 | <0.005 | | | <0.005 |
| 2/22/2020 | | 0.0211 | 0.169 | |
| 4/14/2020 | <0.005 | 0.0224 | 0.192 | <0.005 |
| 10/30/2020 | <0.005 | 0.0267 | 0.194 | |
| 11/2/2020 | | | | <0.005 |
| 3/17/2021 | | 0.0174 | 0.12 | |
| 3/26/2021 | <0.005 | | | <0.005 |
| 10/5/2021 | | 0.0127 | | 0.0045 (J) |
| 10/6/2021 | <0.005 | | 0.0994 | |
| 3/16/2022 | 0.0038 (J) | 0.0112 | 0.0629 | 0.00437 (J) |
| 10/5/2022 | 0.00322 (J) | 0.00676 | | |
| 10/6/2022 | | | 0.0534 | 0.0123 |
| Mean | 0.004408 | 0.02313 | 0.1658 | 0.004714 |
| Std. Dev. | 0.001284 | 0.007405 | 0.04547 | 0.001979 |
| Upper Lim. | 0.005 | 0.0267 | 0.1909 | 0.005 |
| Lower Lim. | 0.00322 | 0.021 | 0.1499 | 0.0035 |

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-4 | BAW-5 | BAW-7 |
|------------|--------------|--------------|--------------|--------------|
| 3/23/2016 | 8.4E-05 (JB) | 7.3E-05 (JB) | 7.4E-05 (JB) | 7.1E-05 (JB) |
| 5/17/2016 | | <0.0002 | <0.0002 | <0.0002 |
| 5/18/2016 | <0.0002 | | | |
| 7/12/2016 | | | | <0.0002 |
| 7/13/2016 | <0.0002 | <0.0002 | <0.0002 | |
| 9/13/2016 | | | <0.0002 | <0.0002 |
| 9/14/2016 | <0.0002 | <0.0002 | | |
| 11/19/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 1/17/2017 | <0.0002 | | | <0.0002 |
| 1/18/2017 | | <0.0002 | <0.0002 | |
| 3/22/2017 | | | | <0.0002 |
| 3/23/2017 | 0.00013 (J) | 0.00013 (J) | <0.0002 | |
| 5/24/2017 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 3/28/2018 | <0.0002 | <0.0002 | <0.0002 | |
| 3/29/2018 | | | | <0.0002 |
| 2/11/2019 | | <0.0002 | <0.0002 | |
| 2/12/2019 | <0.0002 | | | <0.0002 |
| 4/17/2019 | <0.0002 | <0.0002 | <0.0002 | |
| 4/18/2019 | | | | <0.0002 |
| 2/21/2020 | <0.0002 | | | <0.0002 |
| 2/22/2020 | | <0.0002 | <0.0002 | |
| 10/30/2020 | 0.000497 | <0.0002 | <0.0002 | |
| 11/2/2020 | | | | <0.0002 |
| 3/17/2021 | | <0.0002 | <0.0002 | |
| 3/26/2021 | <0.0002 | | | 0.000235 |
| 10/5/2021 | | <0.0002 | | 0.000151 (J) |
| 10/6/2021 | <0.0002 | | <0.0002 | |
| 3/16/2022 | <0.0002 | <0.0002 | <0.0002 | 0.0012 |
| 10/5/2022 | <0.0002 | <0.0002 | | |
| 10/6/2022 | | | <0.0002 | <0.0002 |
| Mean | 0.0002065 | 0.0001884 | 0.0001926 | 0.0002504 |
| Std. Dev. | 8.133E-05 | 3.423E-05 | 3.056E-05 | 0.0002471 |
| Upper Lim. | 0.000497 | 0.0002 | 0.0002 | 0.000235 |
| Lower Lim. | 0.00013 | 0.00013 | 7.4E-05 | 0.000151 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-4 | BAW-5 | BAW-7 |
|------------|--------------|--------------|------------|
| 3/23/2016 | <0.015 | 0.0026 (J) | <0.005 |
| 5/17/2016 | <0.015 | 0.0011 (J) | <0.005 |
| 7/12/2016 | | | <0.005 |
| 7/13/2016 | <0.015 | 0.0079 (J) | |
| 9/13/2016 | | 0.0038 (J) | <0.005 |
| 9/14/2016 | <0.015 | | |
| 11/19/2016 | <0.015 | 0.0014 (J) | <0.005 |
| 1/17/2017 | | | <0.005 |
| 1/18/2017 | <0.015 | 0.001 (J) | |
| 3/22/2017 | | | 0.0038 (J) |
| 3/23/2017 | <0.015 | <0.015 | |
| 5/24/2017 | <0.015 | 0.0014 (J) | <0.005 |
| 3/28/2018 | <0.015 | <0.015 | |
| 3/29/2018 | | | <0.005 |
| 11/8/2018 | <0.015 | | |
| 11/9/2018 | | <0.015 | <0.005 |
| 2/11/2019 | <0.015 | <0.015 | |
| 2/12/2019 | | | <0.005 |
| 4/17/2019 | <0.015 | <0.015 | |
| 4/18/2019 | | | <0.005 |
| 2/21/2020 | | | <0.005 |
| 2/22/2020 | 0.000616 (J) | 0.000627 (J) | |
| 4/14/2020 | <0.015 | 0.000747 (J) | <0.005 |
| 10/30/2020 | <0.015 | <0.015 | |
| 11/2/2020 | | | <0.005 |
| 3/17/2021 | 0.0032 (J) | 0.00328 (J) | |
| 3/26/2021 | | | <0.005 |
| 10/5/2021 | 0.00109 (J) | | <0.005 |
| 10/6/2021 | | 0.00364 (J) | |
| 3/16/2022 | 0.000916 (J) | 0.00533 | <0.005 |
| 10/5/2022 | 0.000939 (J) | | |
| 10/6/2022 | | 0.00424 (J) | <0.005 |
| Mean | 0.01141 | 0.006688 | 0.004937 |
| Std. Dev. | 0.006194 | 0.006061 | 0.0002753 |
| Upper Lim. | 0.015 | 0.015 | 0.005 |
| Lower Lim. | 0.00109 | 0.0011 | 0.0038 |

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-5 | BAW-7 |
|------------|-------------|-------------|-------------|
| 3/23/2016 | 0.00033 (J) | <0.005 | <0.005 |
| 5/17/2016 | | <0.005 | 0.00026 (J) |
| 5/18/2016 | <0.005 | | |
| 7/12/2016 | | | <0.005 |
| 7/13/2016 | 0.00041 (J) | <0.005 | |
| 9/13/2016 | | <0.005 | 0.00031 (J) |
| 9/14/2016 | 0.00079 (J) | | |
| 11/19/2016 | <0.005 | <0.005 | <0.005 |
| 1/17/2017 | <0.005 | | <0.005 |
| 1/18/2017 | | <0.005 | |
| 3/22/2017 | | | 0.0021 |
| 3/23/2017 | <0.005 | <0.005 | |
| 5/24/2017 | 0.00028 (J) | 0.00033 (J) | 0.00026 (J) |
| 3/28/2018 | 0.00038 (J) | <0.005 | |
| 3/29/2018 | | | 0.00036 (J) |
| 6/2/2018 | 0.00031 (J) | <0.005 | <0.005 |
| 11/8/2018 | 0.00088 (J) | | |
| 11/9/2018 | | <0.005 | <0.005 |
| 2/11/2019 | | <0.005 | |
| 2/12/2019 | <0.005 | | <0.005 |
| 4/17/2019 | <0.005 | <0.005 | |
| 4/18/2019 | | | <0.005 |
| 2/21/2020 | <0.005 | | <0.005 |
| 2/22/2020 | | <0.005 | |
| 10/30/2020 | <0.005 | <0.005 | |
| 11/2/2020 | | | <0.005 |
| 3/17/2021 | | <0.005 | |
| 3/26/2021 | <0.005 | | <0.005 |
| 10/5/2021 | | | <0.005 |
| 10/6/2021 | <0.005 | <0.005 | |
| 3/16/2022 | <0.005 | <0.005 | <0.005 |
| 10/5/2022 | <0.005 | | |
| 10/6/2022 | | <0.005 | <0.005 |
| Mean | 0.003336 | 0.004754 | 0.003857 |
| Std. Dev. | 0.002243 | 0.001071 | 0.002001 |
| Upper Lim. | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.00038 | 0.00033 | 0.00036 |

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/7/2022 3:19 PM View: Confidence Intervals

Plant Daniel Client: Southern Company Data: Bottom Ash CCR

| | BAW-3 | BAW-7 |
|------------|--------------|--------------|
| 3/23/2016 | <0.001 | <0.001 |
| 5/17/2016 | | <0.001 |
| 5/18/2016 | <0.001 | |
| 7/12/2016 | | <0.001 |
| 7/13/2016 | <0.001 | |
| 9/13/2016 | | <0.001 |
| 9/14/2016 | 9.5E-05 (J) | |
| 11/19/2016 | <0.001 | <0.001 |
| 1/17/2017 | <0.001 | <0.001 |
| 3/22/2017 | | <0.001 |
| 3/23/2017 | <0.001 | |
| 5/24/2017 | <0.001 | <0.001 |
| 3/28/2018 | <0.001 | |
| 3/29/2018 | | <0.001 |
| 11/8/2018 | 8.5E-05 (J) | |
| 11/9/2018 | | <0.001 |
| 2/12/2019 | <0.001 | <0.001 |
| 4/17/2019 | <0.001 | |
| 4/18/2019 | | <0.001 |
| 2/21/2020 | 0.000276 (J) | <0.001 |
| 4/14/2020 | 0.000158 (J) | <0.001 |
| 10/30/2020 | <0.001 | |
| 11/2/2020 | | <0.001 |
| 3/26/2021 | <0.001 | <0.001 |
| 10/5/2021 | | 0.000153 (J) |
| 10/6/2021 | <0.001 | |
| 3/16/2022 | <0.001 | <0.001 |
| 10/5/2022 | <0.001 | |
| 10/6/2022 | | <0.001 |
| Mean | 0.0008218 | 0.0009554 |
| Std. Dev. | 0.0003564 | 0.0001943 |
| Upper Lim. | 0.001 | 0.001 |
| Lower Lim. | 0.000276 | 0.000153 |