



Prepared for

Georgia Power Company
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Atlanta, Georgia 30308

2021 SEMIANNUAL GROUNDWATER MONITORING & CORRECTIVE ACTION REPORT

**GEORGIA POWER COMPANY
PLANT WANSLEY ASH POND 1 (AP-1)**

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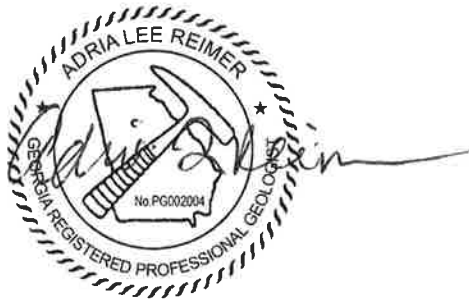
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CERTIFICATION STATEMENT

This 2021 *Semiannual Groundwater Monitoring & Corrective Action Report, Georgia Power Company - Plant Wansley – Ash Pond 1 (AP-1)* has been prepared in compliance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations (CFR) 257 Subpart D], specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants.



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August 31, 2021
Date

SUMMARY

This summary of the *2021 Semiannual Groundwater Monitoring & Corrective Action Report* provides the status of groundwater monitoring and corrective action program through July 2021 at Georgia Power Company's (Georgia Power's) Plant Wansley Ash Pond 1 (AP-1) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the U.S. Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D) (herein referred to as the CCR Rule).

Plant Wansley is located on approximately 5,200 acres about 12 miles southeast of the City of Carrollton, Georgia. Although the majority of the plant property lies within Heard County, the physical address of and entrance to the plant is 1371 Liberty Church Road, Carrollton, Carroll County, Georgia. AP-1 is a 343-acre surface impoundment located northwest of the plant, which was designed to receive and store CCR materials. AP-1 began receiving process water containing fly ash and bottom ash in 1976. As of April 2019, all process-related flows from the plant to AP-1 have ceased.



Plant Wansley and the Site

Groundwater at the Site is monitored using a system comprised of 8 upgradient and 17 downgradient wells, installed in 2014, 2015, 2017, and 2020 that meet federal and state monitoring requirements. The downgradient compliance well network was expanded from 11 to 17 wells, incorporating six wells installed in 2020. Routine sampling and reporting began after the background groundwater conditions were established between May 2016 to September 2017. Based on groundwater conditions at the Site, an assessment monitoring program was established in January 2018. During this 2021 semiannual reporting period, the Site remained in assessment monitoring.

During the 2021 semiannual reporting period, Atlantic Coast Consulting, Inc. (ACC) conducted groundwater sampling events in February and March. Groundwater samples were submitted to Eurofins TestAmerica, Inc. for analysis. Per the CCR Rule,

¹ 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

groundwater results for March 2021 were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² and Appendix IV³ parameters in wells provided in the table below.

| Appendix III Parameter | March 2021 |
|--|--|
| Boron | WGWC-8, WGWC-9, WGWC-16 |
| Calcium | WGWC-8 |
| Chloride | WGWC-8, WGWC-16 |
| Fluoride | WGWC-9, WGWC-15, WGWC-19 |
| Sulfate | WGWC-8, WGWC-9, WGWC-16 |
| Total Dissolved Solids | WGWC-8 |
| Appendix IV Parameter⁴ | March 2021 |
| Lithium | <i>State only:</i> WGWC-8, WGWC-9 <i>Federal and State:</i> WGWC-19 |

An Alternate Source Demonstration (ASD) Addendum was submitted in February 2021⁵ that presents multiple lines of evidence that the lithium groundwater concentrations detected at WGWC-8, WGWC-9, and WGWC-19 are not associated with a release from AP-1 but are instead attributed to a natural source of lithium in rock formations at the Site.

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from January through July 2021, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power's CCR Rule Compliance website and provided to GA EPD semiannually.

² Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

³ Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

⁴ A state statistically significant level (SSL)-related constituent is determined by comparing the confidence intervals developed to either the constituent's maximum contaminant level (MCL), if available, or the calculated background interwell prediction limit. A federal SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, the USEPA Regional Screening Level, if no MCL is available, or the calculated background interwell prediction limit.

⁵ An ASD was submitted in January 2019 (ACC, 2019b). Addendums to the ASD were submitted in November 2020 (Geosyntec, 2020) and February 2021 (Geosyntec, 2021b).

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LIST OF ACRONYMS

| | |
|---------------|---|
| ACC | Atlantic Coast Consulting, Inc. |
| AP | ash pond |
| ASD | Alternate Source Demonstration |
| CCR | coal combustion residuals |
| CFR | Code of Federal Regulations |
| cm/sec | centimeters per second |
| DO | dissolved oxygen |
| Eurofins | Eurofins TestAmerica, Inc. |
| ft bgs | feet below ground surface |
| ft/day | feet per day |
| ft/ft | feet per foot |
| GA EPD | Georgia Environmental Protection Division |
| Georgia Power | Georgia Power Company |
| Geosyntec | Geosyntec Consultants, Inc. |
| GSC | Groundwater Stats Consulting |
| GWPS | Groundwater Protection Standard |
| HAR | Hydrogeologic Assessment Report |
| MCL | Maximum Contaminant Level |
| mg/L | milligram per liter |
| NELAP | National Environmental Laboratory Accreditation Program |
| NTU | Nephelometric turbidity units |
| ORP | oxidation-reduction potential |
| PE | professional engineer |
| PL | prediction limit |
| PWR | partially weathered rock |
| QA/QC | Quality Assurance/Quality Control |
| RL | reporting limit |
| SSI | statistically significant increase |
| SSL | statistically significant level |
| s.u. | standard unit |
| TDS | total dissolved solids |
| USEPA | United States Environmental Protection Agency |

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D] and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2021 Semiannual Groundwater Monitoring & Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Wansley (Site) Ash Pond 1 (AP-1). GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a) adopt the Federal CCR Rule by reference. For ease of reference, the USEPA CCR Rules are cited within this report. This report documents groundwater monitoring activities completed for AP-1 from January 2021 to July 2021.

Semiannual groundwater monitoring and reporting for AP-1 is performed in accordance with the requirements of § 257.90 through § 257.95 of the Federal CCR Rule, and the GA EPD Rules for Solid Waste Management 394-3-4-.10(6)(a). A CCR permit application to comply with GA EPD Rules was submitted in November 2018 and is currently under review.

1.1 Site Description and Background

Plant Wansley is located on approximately 5,200 acres about 12 miles southeast of the City of Carrollton, Georgia. Although the majority of the plant property lies within Heard County, the physical address of and entrance to the plant is 1371 Liberty Church Road, Carrollton, Carroll County, Georgia. The plant property is bounded on the east and southeast by the Chattahoochee River, and sparsely populated, forested, rural, and agricultural land to the north, south, and west. AP-1 is a 343-acre surface impoundment located northwest of the plant (**Figure 1**) which was designed to receive and store CCR materials. AP-1 began receiving process water containing fly ash and bottom ash in 1976. As of April 2019, all process-related flows from the plant to AP-1 have ceased.

1.2 Regional Geology & Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-1 as described in the *Hydrogeologic Assessment Report Revision 01 – Plant Wansley* (HAR Rev 01; Geosyntec, 2019) submitted to GA EPD under separate cover in support of the closure permit application (Geosyntec, 2018).

1.2.1 Regional and Site Geology

Plant Wansley is located within the Piedmont Physiographic Province of western Georgia, which is characterized by gently rolling hills with locally pronounced low, linear ridges, trending northeast-southwest, and separated by valleys. Over geologic time, the Piedmont has been subjected to multiple events of uplift, folding and faulting, alternation, and erosion.

The Piedmont Province is generally underlain by a variably thick blanket of overburden, which is comprised of residual and saprolitic soils derived from the in-place weathering of bedrock. Near the ground surface, soils are generally silt- and clay-rich, with fine-sand and sand becoming more prominent with depth. With increasing depth, the weathered materials tend to retain details of the structural features of the underlying bedrock. Occasional deposits of alluvium are present in valleys and drainage features. A mantle of partially weathered rock (PWR) and the upper fractured surface of the bedrock in the Piedmont comprises a zone often referred to as the “transition zone.”

Bedrock in the Piedmont is predominately composed of metamorphic rock of Precambrian to Paleozoic age. The Site is underlain by several bedrock types consisting of graphitic schist, muscovite schist, biotite schist, schist with interlayered mafic units, amphibolite/hornblende gneiss, granitic gneiss, and feldspathic quartzite as identified in boring logs. Saprolitic soils were described at variable thickness across the Site but were generally encountered at or near ground surface. As is characteristic of this province, the Site has two pronounced ridges, one on the northwest side of AP-1 and one on the southeast side of AP-1, as well as smaller rolling hills along the western property boundary.

1.2.2 Hydrogeologic Setting

While the aquifer characteristics of each lithologic unit may vary, the groundwater is interconnected between these units, and they effectively act as one, unconfined aquifer. The uppermost aquifer at AP-1 occurs primarily in PWR and fractured bedrock. According to previous site investigations, the potentiometric surface is a subdued reflection of the topography. The top of bedrock surface also generally follows topography and likely controls groundwater flow direction in the uppermost aquifer. Because of the steep topography at the Site and variable lithologic framework, the depth to the water table is variable, ranging from approximately 1 to 50 feet below ground surface (ft bgs). The regional groundwater flow direction is expected to be to the

southeast; however, in topographically high areas south of the ash pond, shallower water table elevations are noted within the saprolite and PWR, and hydraulic gradients indicate localized flow northward (or inward) towards the pond.

Groundwater in the saprolite and PWR is hydraulically connected to the bedrock via fractures and deeply weathered areas of the rock. Recharge is by precipitation infiltrating through the saprolite to the bedrock. Based on observations of soil types and horizontal conductivity values, the movement of groundwater in the saprolite is very slow and likely acts as flow through a low-permeability porous media. Groundwater flow in the PWR and the transition zone between the PWR and the fractured bedrock is expected to be greater than in the overlying saprolite and the underlying fractured bedrock. Groundwater flow in the bedrock is restricted entirely to flow through fractures. Visual observations and geophysical logging during field investigations indicate a trend of decreasing fracture spacing and density with depth, consistent with regional geologic trends.

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-1 that consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent the groundwater quality both upgradient of AP-1 (i.e., background conditions) and passing the waste boundary of AP-1. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions.

The compliance monitoring well network for AP-1 consists of 25 monitoring wells. The compliance well network was expanded during this reporting period to incorporate six piezometers (PZ-22, PZ-23S, PZ-24, PZ-25S, PZ-26S, and PZ-27S) installed in 2020. These piezometers were reclassified as compliance wells WGWC-20 through WGWC-25, respectively. The wells were selected to supplement the monitoring network near the southeast corner of AP-1 (WGWC-20 through WGWC-22), south of AP-1 (WGWC-23), and near the southwest end of AP-1 (WGWC-24 and WGWC-25). Incorporation of these locations into the compliance groundwater monitoring network was based on site-specific hydrogeologic conditions, groundwater flow direction, well location and depth, as well as review of analytical results of groundwater samples collected in February and March 2021 discussed in Sections 2.2 and 2.3.

Eighteen piezometers, installed in 2014, 2017, and 2020 are used in combination with the compliance well network to gauge groundwater levels in the vicinity of AP-1 to refine

groundwater flow direction and gradients. Two groundwater characterization wells (WAMW-1 and WAMW-2) were installed in 2018; these two wells are currently used to gauge water levels.

The locations of the compliance monitoring wells, characterization wells, and piezometers are shown on **Figure 2**; well and piezometer construction details are listed in **Table 1**.

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with § 257.90(e), the following describes monitoring-related activities performed during January through July 2021 and discusses any changes in status of the monitoring program. Groundwater sampling was performed in accordance with § 257.93.

2.1 Monitoring Well Installation and Maintenance

No monitoring wells were installed during the reporting period. As discussed in Section 1.3, six piezometers installed in 2020 were reclassified as compliance wells WGWC-20 through WGWC-25.

The well and piezometer networks are inspected during each groundwater monitoring event using GA EPD-based inspection criteria. For this reporting period, inspections were conducted in February and March 2021. Any items identified during the well inspections are addressed before the subsequent groundwater sampling event. The well inspection forms for this reporting period are provided in **Appendix A**.

2.2 Assessment Monitoring

Georgia Power initiated an assessment monitoring program for groundwater at AP-1 in January 2018. An Assessment Monitoring Program Notification was prepared for AP-1 on May 15, 2018, pursuant to § 257.94(e)(3) and placed in the Operating Records of the ash pond as required by § 257.105(h)(5).

During the reporting period discussed herein, compliance monitoring wells WGWA-1 through WGWC-19 at AP-1 were sampled in February and March 2021. Samples collected in February 2021 were analyzed for Appendix IV constituents. Samples collected in March 2021 were analyzed for Appendix III constituents and Appendix IV constituents detected during the February 2021 event. At the request of GA EPD, in March 2021 and April 2021, groundwater samples were collected from piezometers PZ-22, PZ-23S, PZ-24, PZ-25S, PZ-26S, and PZ-27S for analysis of Appendix III constituents. Groundwater samples from these piezometers were additionally analyzed for lithium. As noted previously, these piezometers were reclassified as compliance monitoring wells WGWC-20 through WGWC-25. The number of groundwater samples collected for analysis and the dates the samples were collected for routine groundwater monitoring at AP-1 during this reporting period are summarized in **Table 2**. Details of

these events and analytical results are discussed in Section 3, while the statistical results are discussed in Section 4.

2.3 Additional Groundwater Sampling

At the request of GA EPD, groundwater samples were collected in March 2021 and April 2021 from piezometers PZ-23D, PZ-26D, PZ-27D, PZ-28, and PZ-29D for laboratory analysis of Appendix III constituents to provide additional data to characterize groundwater quality south and southeast of AP-1. The associated laboratory reports are provided in **Appendix B**.

During the March 2021 groundwater monitoring event, supplemental groundwater samples were collected from the compliance monitoring network and from piezometers installed in 2020. The supplemental samples were analyzed for major cations (calcium, magnesium, potassium, and sodium) and anions (chloride, sulfate, and bicarbonate alkalinity) as well as iron, manganese, and sulfide. The data were collected in support of the evaluation of the geochemical composition of the groundwater. The associated laboratory reports are provided in **Appendix B**. The major cation and anion data were used to construct a Piper diagram. Piper diagrams are common tools for assessing geochemical similarities and differences between aqueous samples. The resulting Piper diagram, along with additional information describing the diagram, are presented in **Appendix C**.

3.0 SAMPLING METHODOLOGY & ANALYSES

The following section presents a summary of the field sampling procedures that were implemented, and the groundwater sampling results that were obtained in connection with the groundwater monitoring program conducted at AP-1 during this reporting period.

3.1 Groundwater Level Measurement

Prior to the February and March 2021 sampling event, depth to groundwater level measurements were recorded from the AP-1 monitoring wells, characterization wells, and piezometers and used to calculate the corresponding groundwater elevations. Groundwater levels were measured and recorded to the nearest 0.01-foot within a 24-hour period. The calculated groundwater elevations for the February and March 2021 events are presented in **Table 3**.

The groundwater elevation data were used to prepare potentiometric surface maps for the February and March 2021 events, which are presented on **Figures 3** and **4**, respectively.

3.2 Groundwater Gradient and Flow Velocity

The groundwater hydraulic gradients within the uppermost aquifer at AP-1 were calculated using the groundwater elevation data from the February and March 2021 events. The supporting calculations are presented in **Table 4**. The general trajectory of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figures 3** and **4**. The groundwater flow patterns observed during this reporting period are consistent with historical observations. Groundwater flow across the Site is generally inward towards AP-1 with a minor component of flow to the southeast from AP-1. As presented in **Table 4**, the average hydraulic gradients along the groundwater flow path lines associated with AP-1 are 0.086 feet per foot (ft/ft) (PZ-1 to WGWC-17) and 0.090 ft/ft (PZ-10 to WGWC-19).

The approximate horizontal flow velocities associated with AP-1 were calculated using the following derivative of Darcy's Law. The calculations are presented on **Table 4**.

$$V = \text{linear velocity} = \frac{K * i}{n_e}$$

where:

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

K = Hydraulic Conductivity $\left(\frac{\text{feet}}{\text{day}}\right)$

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

n_e = Effective porosity

The average hydraulic conductivity for AP-1 of 2.4×10^{-4} centimeters per second (cm/sec) [0.67 feet per day (ft/day)] was computed from previous slug test data obtained from testing of wells at AP-1. An estimated effective porosity of 0.25 (based on a review of several sources, including Driscoll, 1986; Freeze and Cherry, 1979) is used to represent average conditions at AP-1. With these variables determined, and accounting for the averaged hydraulic gradient discussed above for the two 2021 events, the average calculated flow velocity for the reporting period was approximately 0.23 (PZ-1 to WGWC-17) and 0.24 ft/day (PZ-10 to WGWC-19), for an average groundwater flow velocity in the vicinity of AP-1 of 0.24 ft/day. Flow velocity calculations are provided in **Table 4**.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using dedicated bladder pumps with dedicated tubing, non-dedicated bladder pumps, and peristaltic pumps. For wells sampled with non-dedicated bladder pumps and peristaltic pumps, the pump intake was lowered to the midpoint of the well screen (or as appropriate determined by the groundwater level). Peristaltic pump samples were collected using new disposable polyethylene tubing. All non-disposable equipment was decontaminated before use and between well locations.

An Aqua Troll 400 or a SmarTroll (In-Situ field instrument) was used to monitor and record field water quality parameters [i.e., pH, conductivity, oxidation-reduction potential (ORP), temperature, and dissolved oxygen (DO)] during well purging to verify stabilization prior to sampling. Turbidity was measured using a LaMotte 2100Q portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- pH \pm 0.1 Standard Units (s.u.).

- Conductivity $\pm 5\%$.
- ± 0.2 milligrams per liter (mg/L) for DO where DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L, record only.
- Turbidity measured less than 5 nephelometric turbidity units (NTU) or measured between 5 and 10 NTU following three hours of purging.

Once stabilization was achieved, samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Eurofins TestAmerica, Inc. (Eurofins) in Pittsburgh, Pennsylvania following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the February, March, and April 2021 events are provided in **Appendix B**.

3.4 Laboratory Analyses

Laboratory analyses were performed by Eurofins in Pittsburgh, Pennsylvania, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). Eurofins maintains a NELAP certification for the Appendix III and Appendix IV constituents analyzed for this project. In addition, the laboratory is certified to perform analysis by the State of Georgia. Analytical methods used for groundwater sample analysis are listed in the analytical laboratory reports included in **Appendix B**.

Samples collected in February 2021 were analyzed for Appendix IV constituents. Samples collected in March 2021 from compliance monitoring wells WGWA-1 through WGWC-19 were analyzed for Appendix III constituents and Appendix IV constituents detected above the laboratory method detection limit (MDL) during the February 2021 event in accordance with § 257.95(b). Samples collected in March and April 2021 from WGWC-20 through WGWC-25 were analyzed for Appendix III constituents and lithium. The groundwater analytical results for Appendix III and Appendix IV constituents from the February, March, and April 2021 monitoring events are summarized in **Table 5**. The Eurofins laboratory reports associated with the results presented in **Table 5** are provided in **Appendix B**. As discussed in Section 2.3, supplemental samples collected in March 2021 were analyzed for major cations and anions, as well as iron, manganese, and sulfide. The Eurofins laboratory reports with the cation, anion, iron, manganese, and sulfide results are provided in **Appendix B**. A piper diagram depicting the cation and anion data is provided in **Appendix C**.

3.5 Quality Assurance & Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events at the rate of one set of QA/QC samples per 10 groundwater samples. One set of QA/QC samples included the following: field duplicate, equipment blank (where non-dedicated sampling equipment was used), and field blank samples. QA/QC samples were collected in laboratory-provided bottles and submitted under the same chain of custody as the primary samples for analysis of the same constituents by Eurofins.

In addition to collecting QA/QC samples, the data were validated based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and applicable federal guidance documents (USEPA, 2011; USEPA, 2017). Where appropriate, the data were qualified with supporting documentation and justifications. The data are considered usable for meeting project objectives, and the results are considered valid. The associated data validation reports are provided in **Appendix B** with the laboratory reports.

4.0 STATISTICAL ANALYSIS

The following section summarizes the statistical analysis of Appendix III groundwater monitoring data performed pursuant to § 257.93. In addition, pursuant to § 257.95(d)(2), Georgia Power established groundwater protection standards (GWPSs) for the Appendix IV monitoring constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the March 2021 assessment monitoring event. The analyses were performed by Groundwater Stats Consulting (GSC); the resulting reports (GSC, 2021) are provided in **Appendix D**.

4.1 Statistical Methods

Analytical data from the March 2021 assessment monitoring event were statistically analyzed in accordance with the PE-certified Statistical Analysis Method Certification (October 2017, amended January 2020). The Sanitas groundwater statistical software was used to perform the statistical analyses. Sanitas is a decision-support software package, that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the USEPA document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009).

Appendix III statistical analysis was performed to determine if Appendix III constituents have returned to background levels. Appendix IV assessment monitoring constituents were evaluated to determine if concentrations statistically exceeded the established state and federal GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis packages provided in **Appendix D** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 6**.

4.1.1 Appendix III Statistical Methods

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PL) combined with a 1-of-2 verification resample plan for each of the Appendix III constituents. Interwell PL are constructed using data from upgradient wells to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs) identified. An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient compliance monitoring well exceeds the

constituent's associated PL. The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective PL, no exceedance is declared. The results are discussed in Section 4.2 and tabulated in Figure E of **Appendix D**.

4.1.2 Appendix IV Statistical Methods

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient compliance monitoring well with a data set consisting of a minimum of four samples. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess statistically significant levels (SSL) of Appendix IV constituents. At the time of this report, the data set for WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25 is limited to less than four independent datums, and therefore not subject to statistical analyses at this time.

The confidence intervals are compared to both the state and federal GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL exceedance is identified.

USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is:

- (1) The maximum contaminant level (MCL) established under § 141.62 and 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L;
 - (ii) Lead 0.015 mg/L;
 - (iii) Lithium 0.040 mg/L; and
 - (iv) Molybdenum 0.10 mg/L.

- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

USEPA's updated GWPS have not yet been incorporated under GA EPD's CCR Rule. The GA EPD CCR Rule GWPS is:

- (1) The federally established MCL.
- (2) Where an MCL has not been established, the background concentration.
- (3) Background levels for constituents where the background level is higher than the MCL.

Following the above federal and state rule requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 6**.

4.2 Statistical Analyses Results

Based on review of the Appendix III statistical analysis, Appendix III constituents have not returned to background levels and assessment monitoring should continue. Based on the statistical analyses of Appendix IV constituents as described in Section 4.1.2, during the March 2021 assessment monitoring event only lithium was identified at the following wells at concentrations in excess of the state and federal GWPS:

AP-1 (Federal CCR Rule):

- Lithium: WGWC-19

AP-1 (GA EPD CCR Rule):

- Lithium: WGWC-8, WGWC-9, and WGWC-19

A groundwater exceedance notification acknowledging the March 2021 SSL of lithium was placed in the Operating Record on July 30, 2021, pursuant to §257.95(g).

5.0 ALTERNATE SOURCE DEMONSTRATION

In accordance with § 257.94(e), Georgia Power implemented assessment monitoring in January 2018. SSLs of the Appendix IV constituent lithium were identified in compliance monitoring wells WGWC-8, WGWC-9, WGWC-10⁶, and WGWC-19 during the 2018 reporting year. In accordance with § 257.95(g)(3), Georgia Power prepared an Alternate Source Demonstration (ASD) for lithium (ACC, 2019b), which was included in the *2018 Annual Groundwater Monitoring and Corrective Action Report* (ACC, 2019a). The ASD presented evidence that the source of lithium in groundwater at wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 was naturally-derived from the subsurface rock formations and did not originate from the unit.

An ASD Addendum was submitted to GA EPD under separate cover in November 2020 (Geosyntec, 2020), and was provided in the *2020 Annual Groundwater Monitoring & Corrective Action Report* (Geosyntec, 2021a). A revised ASD Addendum was submitted to GA EPD under separate cover in February 2021 (Geosyntec, 2021b) and is provided in **Appendix E**. The ASD Addendum presents supplemental data collected since submittal of the ASD which provide additional lines of evidence to demonstrate that the lithium SSLs identified at AP-1 are associated with naturally occurring lithium within rock formations at the Site. The ASD Addendum is currently under review by GA EPD.

⁶ As presented in the ASD Addendum (Geosyntec, 2021b), decreasing lithium concentrations detected at WGWC-10 reduced the lower confidence interval to below the state GWPS of 0.009 mg/L following the second semiannual groundwater assessment event in September 2019, thereby no longer identifying an SSL of lithium at this compliance well.

6.0 MONITORING PROGRAM STATUS

Based on the statistical analyses results, SSIs of Appendix III constituents were identified for the March 2021 groundwater data, thereby causing the unit to remain in the assessment monitoring program in accordance with § 257.94(e). The ASD and ASD Addendum described in Section 5.0 attributes the SSLs of lithium identified during this reporting period to naturally-occurring sources within the rock formation and not originating from AP-1. Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-1 in accordance with the assessment monitoring program regulations of § 257.95.

7.0 CONCLUSIONS & FUTURE ACTIONS

This *2021 Semiannual Groundwater Monitoring & Corrective Action Report* for Plant Wansley AP-1 was prepared to fulfill the requirements of USEPA's CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. Statistical evaluations of the March 2021 groundwater monitoring data for AP-1 confirmed the continued presence of SSLs of lithium in select AP-1 compliance monitoring wells. The 2018 ASD and 2021 ASD Addendum present multiple lines of evidence that illustrate that lithium SSLs in groundwater at wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 are associated with naturally occurring lithium within rock formations at the Site and are not originating from AP-1.

Georgia Power will continue to monitor the groundwater in the vicinity of AP-1 in accordance with the current assessment monitoring program. Groundwater samples will be collected from compliance monitoring wells WGWA-1 through WGWC-19 network for Appendix III and detected Appendix IV constituents, and from WGWC-20 through WGWC-25 for Appendix III and Appendix IV constituents during the next semiannual assessment monitoring event tentatively planned for August 2021.

As discussed in Section 4.1.2, the current Appendix IV data set for new compliance monitoring wells WGWC-20 through WGWC-25 is limited to less than four independent events. Based on the routine groundwater monitoring schedule and planned interim supplemental sampling events, Georgia Power anticipates that an adequately sized data set for statistical analysis (i.e., derivation of confidence intervals) will be available for inclusion in the groundwater monitoring and corrective action report that will be submitted in August 2022.

8.0 REFERENCES

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TABLES

Table 1
Monitoring Well Network Summary
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

| Well ID | Hydraulic Location / Purpose | Installation Date | Northing ^(1,3) | Easting ^(1,3) | Ground Surface Elevation ^(2,3) (ft NAVD88) | Top of Casing Elevation ^(2,3) (ft NAVD88) | Depth to Top of Screen (ft BTOC) | Top of Screen Elevation ^(2,3) (ft NAVD88) | Bottom of Screen Elevation ^(2,3) (ft NAVD88) | Well Depth (ft BTOC) ⁽⁴⁾ | Screen Interval Length (ft) |
|---|------------------------------|-------------------|---------------------------|--------------------------|---|--|----------------------------------|--|---|-------------------------------------|-----------------------------|
| Compliance Monitoring Well | | | | | | | | | | | |
| WGWA-1 | Upgradient | 10/21/2015 | 1250656.10 | 2035580.71 | 780.37 | 782.93 | 119.56 | 663.37 | 653.37 | 129.56 | 10 |
| WGWA-2 | Upgradient | 10/16/2015 | 1251556.40 | 2035590.11 | 755.77 | 758.23 | 92.46 | 665.77 | 655.77 | 102.46 | 10 |
| WGWA-3 | Upgradient | 12/15/2014 | 1240848.21 | 2022350.10 | 826.63 | 828.91 | 8.68 | 820.23 | 810.23 | 18.68 | 10 |
| WGWA-4 | Upgradient | 01/13/2015 | 1240879.58 | 2022339.66 | 831.33 | 834.34 | 53.91 | 780.43 | 760.43 | 74.31 | 20 |
| WGWA-5 | Upgradient | 12/23/2014 | 1241997.94 | 2022368.85 | 899.28 | 902.15 | 13.27 | 888.88 | 878.88 | 23.66 | 10 |
| WGWA-6 | Upgradient | 01/13/2015 | 1241932.02 | 2022360.58 | 894.62 | 897.13 | 74.51 | 822.62 | 792.62 | 104.91 | 30 |
| WGWA-7 | Upgradient | 12/22/2014 | 1243338.63 | 2023843.81 | 894.49 | 897.33 | 29.64 | 867.69 | 857.69 | 40.04 | 10 |
| WGWA-18 | Upgradient | 12/16/2014 | 1244592.56 | 2025580.71 | 875.47 | 878.02 | 29.55 | 848.47 | 838.47 | 39.95 | 10 |
| WGWC-8 | Downgradient | 10/29/2015 | 1242929.40 | 2029644.58 | 777.70 | 780.08 | 49.38 | 730.70 | 720.70 | 59.38 | 10 |
| WGWC-9 | Downgradient | 12/4/2014 | 1242801.12 | 2029115.75 | 809.33 | 812.03 | 51.10 | 760.93 | 750.93 | 61.50 | 10 |
| WGWC-10 | Downgradient | 10/27/2015 | 1240971.96 | 2026725.61 | 809.61 | 812.38 | 138.77 | 673.61 | 663.61 | 148.77 | 10 |
| WGWC-11 | Downgradient | 12/8/2014 | 1240860.18 | 2025773.39 | 821.44 | 823.96 | 40.82 | 783.14 | 773.14 | 51.22 | 10 |
| WGWC-12 | Downgradient | 10/22/2015 | 1240827.68 | 2025755.99 | 820.57 | 823.04 | 66.47 | 756.57 | 746.57 | 76.47 | 10 |
| WGWC-13 | Downgradient | 11/4/2015 | 1240610.93 | 2024585.91 | 807.32 | 809.78 | 75.46 | 734.32 | 714.32 | 95.46 | 20 |
| WGWC-14A | Downgradient | 01/31/2017 | 1240604.54 | 2024599.63 | 808.20 | 810.94 | 32.74 | 778.20 | 768.20 | 42.74 | 10 |
| WGWC-15 | Downgradient | 11/11/2015 | 1240483.16 | 2023912.92 | 802.03 | 804.69 | 46.16 | 758.53 | 748.53 | 56.16 | 10 |
| WGWC-16 | Downgradient | 11/11/2015 | 1240480.46 | 2023903.77 | 801.72 | 804.21 | 24.49 | 779.72 | 769.72 | 34.50 | 10 |
| WGWC-17 | Downgradient | 11/06/2015 | 1240052.06 | 2022623.82 | 813.36 | 816.00 | 85.94 | 730.36 | 720.36 | 95.94 | 10 |
| WGWC-19 | Downgradient | 10/28/2015 | 1241851.51 | 2028949.19 | 780.60 | 783.42 | 84.82 | 698.60 | 688.60 | 94.82 | 10 |
| WGWC-20 | Downgradient | 09/29/2020 | 1243350.76 | 2029769.43 | 804.88 | 807.95 | 32.77 | 775.18 | 765.18 | 43.17 | 10 |
| WGWC-21 | Downgradient | 10/02/2020 | 1242139.33 | 2028512.65 | 831.79 | 834.41 | 61.30 | 773.11 | 763.11 | 71.70 | 10 |
| WGWC-22 | Downgradient | 10/18/2020 | 1241695.25 | 2028116.05 | 807.00 | 810.37 | 33.45 | 776.92 | 766.92 | 43.85 | 10 |
| WGWC-23 | Downgradient | 10/04/2020 | 1240769.79 | 2027414.58 | 820.50 | 823.80 | 43.40 | 780.40 | 770.40 | 53.80 | 10 |
| WGWC-24 | Downgradient | 10/17/2020 | 1239916.68 | 2024139.82 | 802.22 | 804.80 | 30.37 | 774.43 | 764.43 | 40.77 | 10 |
| WGWC-25 | Downgradient | 10/28/2020 | 1240184.18 | 2023616.69 | 805.98 | 808.98 | 29.47 | 779.51 | 769.51 | 39.87 | 10 |
| Piezometer | | | | | | | | | | | |
| PZ-01 | Piezometer | 12/12/2014 | 1240249.86 | 2022319.93 | 853.91 | 856.72 | 38.91 | 817.81 | 807.81 | 49.31 | 10 |
| PZ-04 | Piezometer | 12/22/2014 | 1242592.03 | 2023595.91 | 886.13 | 889.01 | 10.08 | 878.93 | 868.93 | 20.48 | 10 |
| PZ-06 | Piezometer | 12/17/2014 | 1244382.89 | 2024661.39 | 912.30 | 915.15 | 16.55 | 898.60 | 888.60 | 26.95 | 10 |
| PZ-08 | Piezometer | 12/15/2014 | 1245514.59 | 2026807.30 | 864.65 | 867.29 | 30.44 | 836.85 | 826.85 | 40.84 | 10 |
| PZ-10 | Piezometer | 12/05/2014 | 1242058.41 | 2028554.29 | 829.26 | 832.02 | 21.56 | 810.46 | 800.46 | 31.96 | 10 |
| PZ-11 | Piezometer | 12/05/2014 | 1240578.87 | 2026933.09 | 820.21 | 823.09 | 23.38 | 799.71 | 789.71 | 33.78 | 10 |
| PZ-12 | Piezometer | 12/08/2014 | 1240837.96 | 2026731.01 | 816.17 | 818.74 | 39.37 | 779.37 | 769.37 | 49.78 | 10 |
| PZ-15 | Piezometer | 12/10/2014 | 1240457.61 | 2025105.38 | 824.59 | 826.86 | 31.07 | 795.79 | 785.79 | 41.46 | 10 |
| PZ-16 | Piezometer | 12/11/2014 | 1239419.77 | 2023662.22 | 798.05 | 800.70 | 15.65 | 785.05 | 775.05 | 26.15 | 10 |
| PZ-17 | Piezometer | 12/11/2014 | 1239270.02 | 2023086.50 | 828.54 | 831.01 | 41.17 | 789.84 | 779.84 | 51.57 | 10 |
| PZ-18 | Piezometer | 12/11/2014 | 1239569.52 | 2022299.20 | 812.10 | 814.51 | 26.31 | 788.20 | 778.20 | 36.71 | 10 |
| PZ-20 | Piezometer | 01/31/2017 | 1243496.86 | 2030132.73 | 784.45 | 787.30 | 27.85 | 759.45 | 749.45 | 37.85 | 10 |
| PZ-23D | Piezometer | 10/02/2020 | 1242139.53 | 2028520.87 | 831.89 | 834.32 | 84.40 | 749.92 | 739.92 | 94.80 | 10 |
| PZ-26D | Piezometer | 10/12/2020 | 1239919.45 | 2024146.35 | 802.31 | 804.93 | 69.70 | 735.23 | 725.23 | 80.10 | 10 |
| PZ-27D | Piezometer | 10/15/2020 | 1240190.93 | 2023620.36 | 806.22 | 809.28 | 71.32 | 737.96 | 727.96 | 81.72 | 10 |
| PZ-28 | Piezometer | 10/29/2020 | 1240066.02 | 2022624.73 | 813.57 | 816.18 | 62.50 | 753.68 | 743.68 | 72.90 | 10 |
| PZ-29S | Piezometer | 10/31/2020 | 1244317.13 | 2028839.68 | 805.80 | 805.30 | 35.02 | 770.28 | 760.28 | 45.42 | 10 |
| PZ-29D | Piezometer | 11/01/2020 | 1244304.90 | 2028853.29 | 805.77 | 805.24 | 116.55 | 688.69 | 678.69 | 126.95 | 10 |
| Characterization Monitoring Well | | | | | | | | | | | |
| WAMW-1 | Characterization | 09/16/2018 | 1241843.66 | 2028944.63 | 780.05 | 782.66 | 114.26 | 668.40 | 658.40 | 124.60 | 10 |
| WAMW-2 | Characterization | 09/14/2018 | 1241547.56 | 2028806.27 | 768.39 | 770.82 | 76.63 | 694.19 | 684.19 | 86.92 | 10 |

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.

(2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Ground surface elevation defined at the survey nail installed within the well pad.

(3) Survey of WGWA-1 through WGWA-18, WGWC-8 through WGWC-19, WAMW-1 and WAMW-2, and PZ-01 through PZ-20 was completed by GEL Solutions and certified June 16, 2020. Survey of WGWC-20 through WGWC-25, and PZ-23D through PZ-29D was completed by GEL Solutions and certified on November 17, 2020.

(4) Total well depth accounts for sump if data provided on construction logs.

Table 2
Groundwater Sampling Event Summary
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

| Well ID | Hydraulic Location | February 2 - 4, 2021 | March 8 - 11, 2021 | March 10 - 12, 2021 | April 7 - 8, 2021 | Status of Monitoring Well |
|-----------------------------------|--------------------|----------------------|--------------------|---------------------|-------------------|---------------------------|
| Purpose of Sampling Event: | | Appendix IV Annual | Supplemental | Assessment | Supplemental | |
| <i>Compliance Monitoring Well</i> | | | | | | |
| WGWA-1 | Upgradient | X | -- | X | -- | Assessment |
| WGWA-2 | Upgradient | X | -- | X | -- | Assessment |
| WGWA-3 | Upgradient | X | -- | X | -- | Assessment |
| WGWA-4 | Upgradient | X | -- | X | -- | Assessment |
| WGWA-5 | Upgradient | X | -- | X | -- | Assessment |
| WGWA-6 | Upgradient | X | -- | X | -- | Assessment |
| WGWA-7 | Upgradient | X | -- | X | -- | Assessment |
| WGWA-18 | Upgradient | X | -- | X | -- | Assessment |
| WGWC-8 | Downgradient | X | -- | X | -- | Assessment |
| WGWC-9 | Downgradient | X | -- | X | -- | Assessment |
| WGWC-10 | Downgradient | X | -- | X | -- | Assessment |
| WGWC-11 | Downgradient | X | -- | X | -- | Assessment |
| WGWC-12 | Downgradient | X | -- | X | -- | Assessment |
| WGWC-13 | Downgradient | X | -- | X | -- | Assessment |
| WGWC-14A | Downgradient | X | -- | X | -- | Assessment |
| WGWC-15 | Downgradient | X | -- | X | -- | Assessment |
| WGWC-16 | Downgradient | X | -- | X | -- | Assessment |
| WGWC-17 | Downgradient | X | -- | X | -- | Assessment |
| WGWC-19 | Downgradient | X | -- | X | -- | Assessment |
| WGWC-20 ⁽¹⁾ | Downgradient | -- | X | -- | X | Assessment ⁽²⁾ |
| WGWC-21 ⁽¹⁾ | Downgradient | -- | X | -- | X | Assessment ⁽²⁾ |
| WGWC-22 ⁽¹⁾ | Downgradient | -- | X | -- | X | Assessment ⁽²⁾ |
| WGWC-23 ⁽¹⁾ | Downgradient | -- | X | -- | X | Assessment ⁽²⁾ |
| WGWC-24 ⁽¹⁾ | Downgradient | -- | X | -- | X | Assessment ⁽²⁾ |
| WGWC-25 ⁽¹⁾ | Downgradient | -- | X | -- | X | Assessment ⁽²⁾ |

Notes:

-- = Not applicable

(1) Well installed in 2020 and incorporated into the groundwater monitoring program. WGWC-20 through WGWC-25 were formerly identified as PZ-22, PZ-23S, PZ-24, PZ-25S, PZ-26S, and PZ-27S, respectively.

(2) Groundwater samples collected in March and April 2021 were analyzed for Appendix III constituents and lithium.

Table 3
 Summary of Groundwater Elevations
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

| Well ID | Top of Casing Elevation ^(1,2) (ft NAVD88) | February 1, 2021 | | March 8, 2021 | |
|---|---|-----------------------------|---------------------------------------|-----------------------------|---------------------------------------|
| | | Depth to Water (ft BTOC) | Groundwater Elevations (ft NAVD88) | Depth to Water (ft BTOC) | Groundwater Elevations (ft NAVD88) |
| Compliance Monitoring Well | | | | | |
| WGWA-1 | 782.93 | 25.01 | 757.92 | 24.03 | 758.90 |
| WGWA-2 | 758.23 | 8.24 | 749.99 | 8.79 | 749.44 |
| WGWA-3 | 828.91 | 3.10 | 825.81 | 2.89 | 826.02 |
| WGWA-4 | 834.34 | 5.05 | 829.29 | 4.64 | 829.70 |
| WGWA-5 | 902.15 | 14.97 | 887.18 | 14.22 | 887.93 |
| WGWA-6 | 897.13 | 16.18 | 880.95 | 15.35 | 881.78 |
| WGWA-7 | 897.33 | 27.30 | 870.03 | 25.33 | 872.00 |
| WGWA-18 | 878.02 | 22.18 | 855.84 | 20.38 | 857.64 |
| WGWC-8 | 780.08 | 3.24 | 776.84 | 4.16 | 775.92 |
| WGWC-9 | 812.03 | 19.78 | 792.25 | 19.52 | 792.51 |
| WGWC-10 | 812.38 | 15.53 | 796.85 | 14.72 | 797.66 |
| WGWC-11 | 823.96 | 22.03 | 801.93 | 20.13 | 803.83 |
| WGWC-12 | 823.04 | 21.55 | 801.49 | 19.90 | 803.14 |
| WGWC-13 | 809.78 | 19.82 | 789.96 | 19.30 | 790.48 |
| WGWC-14A | 810.94 | 19.82 | 791.12 | 18.37 | 792.57 |
| WGWC-15 | 804.69 | 20.09 | 784.60 | 20.08 | 784.61 |
| WGWC-16 | 804.21 | 19.25 | 784.96 | 19.04 | 785.17 |
| WGWC-17 | 816.00 | 30.09 | 785.91 | 29.98 | 786.02 |
| WGWC-19 | 783.42 | 19.34 | 764.08 | 18.93 | 764.49 |
| WGWC-20 | 807.95 | 25.97 | 781.98 | 25.86 | 782.09 |
| WGWC-21 | 834.41 | 49.10 | 785.31 | 48.95 | 785.46 |
| WGWC-22 | 810.37 | 16.41 | 793.96 | 15.91 | 794.46 |
| WGWC-23 | 823.80 | 29.76 | 794.04 | 28.88 | 794.92 |
| WGWC-24 | 804.80 | 12.52 | 792.28 | 12.36 | 792.44 |
| WGWC-25 | 808.98 | 17.11 | 791.87 | 16.88 | 792.10 |
| Piezometer | | | | | |
| PZ-01 | 856.72 | 38.82 | 817.90 | 38.47 | 818.25 |
| PZ-04 | 889.01 | 11.94 | 877.07 | 16.59 | 872.42 |
| PZ-06 | 915.15 | 23.86 | 891.29 | 19.79 | 895.36 |
| PZ-08 | 867.29 | 30.85 | 836.44 | 30.80 | 836.49 |
| PZ-10 | 832.02 | 27.26 | 804.76 | 27.95 | 804.07 |
| PZ-11 | 823.09 | 21.29 | 801.80 | 20.30 | 802.79 |
| PZ-12 | 818.74 | 25.05 | 793.69 | 23.98 | 794.76 |
| PZ-15 | 826.86 | 27.24 | 799.62 | 25.15 | 801.71 |
| PZ-16 | 800.70 | 10.80 | 789.90 | 11.21 | 789.49 |
| PZ-17 | 831.01 | 36.76 | 794.25 | 36.23 | 794.78 |
| PZ-18 | 814.51 | 16.41 | 798.10 | 15.60 | 798.91 |
| PZ-20 | 787.30 | 14.09 | 773.21 | 12.82 | 774.48 |
| PZ-23D | 834.32 | 49.09 | 785.23 | 48.91 | 785.41 |
| PZ-26D | 804.93 | 13.81 | 791.12 | 14.00 | 790.93 |
| PZ-27D | 809.28 | 19.74 | 789.54 | 19.92 | 789.36 |
| PZ-28 | 816.18 | 29.26 | 786.92 | 29.09 | 787.09 |
| PZ-29S | 805.30 | 20.20 | 785.10 | 20.21 | 785.09 |
| PZ-29D | 805.24 | 21.36 | 783.88 | 20.96 | 784.28 |
| Characterization Monitoring Well | | | | | |
| WAMW-1 | 782.66 | 20.07 | 762.59 | 19.55 | 763.11 |
| WAMW-2 | 770.82 | 12.86 | 757.96 | 12.56 | 758.26 |

Notes:

ft = feet

ft BTOC = feet below top of casing

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

(2) Survey of WGWA-1 through WGWA-18, WGWC-8 through WGWC-19, WAMW-1 and WAMW-2, and PZ-01 through PZ-20 was completed by GEL Solutions and certified June 16, 2020. Survey of WGWC-20 through WGWC-25, and PZ-23D through PZ-29D was completed by GEL Solutions and certified on November 17, 2020.

Table 4
Horizontal Groundwater Gradient and Flow Velocity Calculations
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

| Flow Path Direction | K _h (ft/d) | n | February 1, 2021 | | | | | March 8, 2021 | | | | |
|---------------------|-----------------------|------|---------------------|---------------------|---------|---------------|-------------------------|---------------------|---------------------|---------|---------------|-------------------------|
| | | | h ₁ (ft) | h ₂ (ft) | Δl (ft) | Δh/Δl (ft/ft) | V (ft/d) ⁽¹⁾ | h ₁ (ft) | h ₂ (ft) | Δl (ft) | Δh/Δl (ft/ft) | V (ft/d) ⁽¹⁾ |
| PZ-01 to WGWC-17 | 0.67 | 0.25 | 817.90 | 785.91 | 373 | 0.086 | 0.23 | 818.25 | 786.02 | 373 | 0.086 | 0.23 |
| PZ-10 to WGWC-19 | 0.67 | 0.25 | 804.76 | 764.08 | 446 | 0.091 | 0.24 | 804.07 | 764.49 | 446 | 0.089 | 0.24 |

| Flow Path Direction | K _h (ft/d) | n | Averaged for 2021 | | |
|---------------------|-----------------------|------|-------------------|-------------------------|-------------------------|
| | | | Δh/Δl (ft/ft) | V (ft/d) ⁽¹⁾ | V (ft/d) ⁽²⁾ |
| PZ-01 to WGWC-17 | 0.67 | 0.25 | 0.086 | 0.23 | 0.24 |
| PZ-10 to WGWC-19 | 0.67 | 0.25 | 0.090 | 0.24 | |

Notes:

ft = feet

ft/d = feet per day

ft/ft = feet per foot

K_h = horizontal hydraulic conductivity

n = effective porosity

h₁, h₂ = groundwater elevation at identified wells

Δh/Δl = hydraulic gradient

Δh = change in groundwater elevation between identified wells

Δl = distance between identified wells

V = groundwater flow velocity

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

(2) Average groundwater flow velocity for unit.

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

| | Well ID: | WGWA-1 | WGWA-1 | WGWA-2 | WGWA-2 | WGWA-3 | WGWA-3 | WGWA-4 | WGWA-4 | WGWA-5 | WGWA-5 | WGWA-6 | WGWA-6 |
|----------------------|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|
| | Sample Date: | 2/2/2021 | 3/11/2021 | 2/2/2021 | 3/10/2021 | 2/2/2021 | 3/10/2021 | 2/2/2021 | 3/10/2021 | 2/3/2021 | 3/10/2021 | 2/3/2021 | 3/11/2021 |
| | Parameter ^(1,2) | | | | | | | | | | | | |
| Appendix III | Boron | -- | <0.39 | -- | 0.039 J | -- | <0.39 | -- | <0.039 | -- | <0.039 | -- | <0.039 |
| | Calcium | -- | 1.3 | -- | 11 | -- | 1.9 | -- | 16 | -- | 1.3 | -- | 26 |
| | Chloride | -- | 4.5 | -- | 2.6 | -- | 1.8 | -- | 1.2 | -- | 1.8 | -- | 1.5 |
| | Fluoride | 0.028 J | <0.026 | 0.065 J | 0.045 J | 0.035 J | <0.026 | 0.15 | 0.12 | <0.026 | <0.026 | 0.088 J | 0.092 J |
| | pH ⁽³⁾ | 5.36 | 5.26 | 6.10 | 6.11 | 5.78 | 5.49 | 6.61 | 7.19 | 5.30 | 5.22 | 7.76 | 7.93 |
| | Sulfate | -- | <0.76 | -- | 0.90 J | -- | 0.91 J | -- | 8.1 | -- | <0.76 | -- | 8.4 |
| | TDS | -- | 24 | -- | 100 | -- | 20 | -- | 100 | -- | 19 | -- | 110 |
| | Appendix IV | Antimony | 0.00062 J | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 |
| Arsenic | | <0.00031 | <0.00031 | <0.00031 | 0.00063 J | <0.00031 | <0.00031 | <0.00031 | 0.00036 J | <0.00031 | <0.00031 | <0.00031 | <0.00031 |
| Barium | | 0.050 | 0.046 | 0.025 | 0.024 | 0.015 | 0.014 | 0.0060 J | 0.0057 J | 0.015 | 0.016 | 0.0079 J | 0.0077 J |
| Beryllium | | <0.00018 | 0.00029 J | <0.00018 | 0.00065 J | <0.00018 | 0.00019 J | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 |
| Cadmium | | <0.00022 | -- | <0.00022 | -- | <0.00022 | -- | <0.00022 | -- | <0.00022 | -- | <0.00022 | -- |
| Chromium | | <0.0015 | <0.00015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 |
| Cobalt | | 0.00082 | 0.00081 J | 0.00069 J | 0.00073 J | <0.00013 | <0.00013 | <0.00013 | <0.00013 | 0.0015 J | 0.0011 J | <0.00013 | <0.00013 |
| Fluoride | | 0.028 J | <0.026 | 0.065 J | 0.045 J | 0.035 J | <0.026 | 0.15 J | 0.12 | <0.026 | <0.026 | 0.088 J | 0.092 J |
| Lead | | 0.00015 J | <0.00013 | 0.00015 J | 0.00019 J | <0.00013 | <0.00013 | <0.00013 | <0.00013 | 0.00019 J | <0.00013 | <0.00013 | <0.00013 |
| Lithium | | <0.0034 | 0.0039 J | 0.0065 | 0.0075 | <0.0034 | <0.0034 | 0.0039 J | 0.0049 J | <0.0034 | <0.0034 | 0.0047 J | 0.0050 |
| Mercury | | <0.00013 | -- | <0.00013 | -- | <0.00013 | -- | <0.00013 | -- | <0.00013 | -- | <0.00013 | -- |
| Molybdenum | | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 |
| Comb. Radium 226/228 | | 0.243 U | 0.046 U | 0.202 U | 0.378 U | 0.182 U | -0.177 U | 1.05 | 1.47 | -0.314 | 0.144 U | 9.99 | 9.20 |
| Selenium | | <0.0015 | <0.00015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 |
| Thallium | <0.00015 | 0.00045 J | 0.00040 J | 0.00073 J | <0.00015 | 0.00028 J | <0.00015 | 0.00017 J | 0.00042 J | <0.00015 | <0.00015 | <0.00015 | |

Notes:

-- = Parameter was not analyzed

H = Indicates that a sample was prepped or analyzed beyond the specific hold time

J = Indicates the parameter was estimated and detected between the method detection limit (MDL) and the reporting limit (RL)

< = Indicated the parameter was not detected above the applicable laboratory method detection limit (MDL).

TDS = total dissolved solids

U = Indicates the parameter was not detected above the minimum detection concentration (MDC, specific to combined radium)

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).

(2) Metals were analyzed by EPA Method 6020B, Mercury was analyzed by EPA Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540C, and combined radium by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field during the February, March, and April monitoring events.

(4) Wells installed in 2020 and incorporated into the compliance groundwater monitoring program in 2021. WGWC-20 through WGWC-25 were formerly identified as PZ-22, PZ-23S, PZ-24, PZ-25S, PZ-26S, and PZ-27S, respectively.

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

| | Well ID: | WGWA-7 | WGWA-7 | WGWA-18 | WGWA-18 | WGWC-8 | WGWC-8 | WGWC-9 | WGWC-9 | WGWC-10 | WGWC-10 | WGWC-11 | WGWC-11 |
|----------------------|----------------------------|----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Sample Date: | 2/2/2021 | 3/10/2021 | 2/2/2021 | 3/10/2021 | 2/3/2021 | 3/11/2021 | 2/4/2021 | 3/12/2021 | 2/4/2021 | 3/11/2021 | 2/3/2021 | 3/12/2021 |
| | Parameter ^(1,2) | | | | | | | | | | | | |
| Appendix III | Boron | -- | <0.039 | -- | <0.039 | -- | 2.4 | -- | 0.64 | -- | <0.039 | -- | <0.039 |
| | Calcium | -- | 0.89 | -- | 7.7 | -- | 83 | -- | 11 | -- | 7.9 | -- | 1.6 |
| | Chloride | -- | 1.9 | -- | 1.9 | -- | 110 | -- | 3.4 | -- | 1.7 | -- | 3.6 |
| | Fluoride | <0.026 | <0.026 | 0.071 J | 0.046 J | 0.15 | 0.16 | 0.91 | 0.98 | 0.12 | 0.15 | 0.027 J | 0.044 J |
| | pH ⁽³⁾ | 5.84 | 4.96 | 6.48 | 5.80 | 5.08 | 5.35 | 6.22 | 5.88 | 6.21 | 6.56 | 5.21 | 5.46 |
| | Sulfate | -- | <0.76 | -- | 7.1 | -- | 220 | -- | 62 | -- | 2.8 | -- | 2.0 |
| | TDS | -- | 20 | -- | 72 H | -- | 530 | -- | 130 | -- | 52 | -- | 27 |
| | Appendix IV | Antimony | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 | 0.00041 J | <0.00038 | <0.00038 | <0.00038 | <0.00038 |
| Arsenic | | <0.00031 | <0.00031 | <0.00031 | <0.00031 | 0.0013 | 0.00090 J | <0.00031 | <0.00031 | <0.00031 | 0.00031 J | <0.00031 | <0.00031 |
| Barium | | 0.012 | 0.011 | 0.017 | 0.016 | <0.0016 | <0.0016 | 0.0016 J | <0.0016 | 0.035 | 0.033 | 0.039 | 0.045 |
| Beryllium | | <0.00018 | <0.00018 | <0.00018 | <0.00018 | 0.0025 | 0.0022 J | 0.00039 J | 0.00034 J | <0.00018 | <0.00018 | <0.00018 | <0.00018 |
| Cadmium | | <0.00022 | -- | <0.00022 | -- | <0.00022 | -- | <0.00022 | -- | <0.00022 | -- | <0.00022 | -- |
| Chromium | | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | 0.0018 J | 0.0023 | <0.0015 | 0.0017 J |
| Cobalt | | <0.00013 | <0.00013 | 0.0018 J | 0.0015 J | 0.00014 J | 0.00043 J | <0.00013 | <0.00013 | 0.00059 J | 0.00058 J | 0.00072 J | 0.0022 J |
| Fluoride | | <0.026 | <0.026 | 0.071 J | 0.046 J | 0.15 J | 0.16 | 0.91 | 0.98 | 0.12 J | 0.15 | 0.027 J | 0.044 J |
| Lead | | <0.00013 | <0.00013 | <0.00013 | <0.00013 | 0.00013 J | <0.00013 | <0.00013 | <0.00013 | 0.00019 J | 0.00032 J | <0.00013 | 0.00038 J |
| Lithium | | <0.0034 | <0.0034 | <0.0034 | <0.0034 | 0.014 | 0.013 | 0.035 | 0.034 | 0.0049 J | 0.0051 | <0.0034 | <0.0034 |
| Mercury | | <0.00013 | -- | <0.00013 | -- | <0.00013 | -- | <0.00013 | -- | <0.00013 | -- | <0.00013 | -- |
| Molybdenum | | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | <0.00061 | 0.0030 J | 0.0030 J | <0.00061 | <0.00061 | <0.00061 | <0.00061 |
| Comb. Radium 226/228 | | 0.167 U | 0.224 U | 0.354 U | 0.218 U | 2.00 | 2.38 | 0.353 U | 0.831 | 0.0332 U | 0.420 U | 0.718 | 0.0729 U |
| Selenium | | <0.0015 | <0.0015 | <0.0015 | <0.0015 | 0.0036 J | 0.0038 J | 0.0030 J | 0.0034 J | <0.0015 | <0.0015 | <0.0015 | <0.0015 |
| Thallium | <0.00015 | <0.00015 | <0.00015 | <0.00015 | <0.00015 | <0.00015 | <0.00015 | <0.00015 | <0.00015 | <0.00015 | 0.00016 J | <0.00015 | |

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

| | Well ID: | WGWC-12 | WGWC-12 | WGWC-13 | WGWC-13 | WGWC-14A | WGWC-14A | WGWC-15 | WGWC-15 | WGWC-16 | WGWC-16 | WGWC-17 | WGWC-17 |
|-----------------------------|----------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Sample Date: | 2/3/2021 | 3/12/2021 | 2/4/2021 | 3/11/2021 | 2/4/2021 | 3/11/2021 | 2/4/2021 | 3/12/2021 | 2/4/2021 | 3/11/2021 | 2/4/2021 | 3/11/2021 |
| | Parameter ^(1,2) | | | | | | | | | | | | |
| Appendix III | Boron | -- | <0.039 | -- | <0.039 | -- | <0.039 | -- | <0.039 | -- | 1.1 | -- | <0.039 |
| | Calcium | -- | 15 | -- | 4.0 | -- | 0.79 | -- | 31 | -- | 32 | -- | 5.7 |
| | Chloride | -- | 3.5 | -- | 1.2 | -- | 2.6 | -- | 1.6 | -- | 49 | -- | 1.3 |
| | Fluoride | 0.082 J | 0.096 J | 0.16 | 0.18 | 0.033 J | 0.040 J | 0.69 | 0.88 | 0.052 J | 0.061 J | 0.064 J | 0.050 J |
| | pH ⁽³⁾ | 6.15 | 6.66 | 6.34 | 5.95 | 5.76 | 5.10 | 7.77 | 7.72 | 5.42 | 5.21 | 6.31 | 5.96 |
| | Sulfate | -- | 14 | -- | 2.9 | -- | 1.7 | -- | 19 | -- | 64 | -- | 3.9 |
| | TDS | -- | 78 | -- | 63 | -- | 24 | -- | 130 | -- | 190 | -- | 75 |
| | Appendix IV | Antimony | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 | <0.00038 |
| Arsenic | | <0.00031 | <0.00031 | 0.00038 J | 0.00035 J | <0.00031 | <0.00031 | 0.00069 J | 0.00084 J | <0.00031 | <0.00031 | 0.00035 J | <0.00031 |
| Barium | | 0.015 | 0.017 | 0.047 | 0.049 | 0.029 | 0.032 | 0.028 | 0.028 | 0.039 | 0.037 | 0.012 | 0.011 |
| Beryllium | | <0.00018 | <0.00018 | <0.00018 | <0.00018 | 0.00026 J | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 |
| Cadmium | | <0.00022 | -- | <0.00022 | -- | <0.00022 | -- | <0.00022 | -- | <0.00022 | -- | <0.00022 | -- |
| Chromium | | <0.0015 | <0.0015 | <0.0015 | 0.0019 J | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 |
| Cobalt | | 0.00017 J | 0.00042 J | <0.00013 | <0.00013 | 0.0041 | 0.0037 | 0.00015 J | <0.00013 | 0.00026 J | 0.00013 J | 0.00042 J | 0.00035 J |
| Fluoride | | 0.082 J | 0.096 J | 0.16 J | 0.18 | 0.033 J | 0.040 J | 0.69 | 0.88 | 0.052 J | 0.061 J | 0.064 J | 0.050 J |
| Lead | | <0.00013 | <0.00013 | 0.00038 J | 0.00075 J | 0.00013 J | 0.00031 J | 0.00030 J | <0.00013 | 0.00013 J | <0.00013 | <0.00013 | <0.00013 |
| Lithium | | 0.0075 | 0.0089 | <0.0034 | 0.0037 J | <0.0034 | 0.0035 J | 0.0086 | 0.0096 | 0.0051 | 0.0050 | 0.0047 J | 0.0049 J |
| Mercury | | <0.00013 | -- | <0.00013 | -- | <0.00013 | -- | <0.00013 | -- | <0.00013 | -- | <0.00013 | -- |
| Molybdenum | | <0.00061 | 0.00062 J | 0.0012 J | 0.0013 J | <0.00061 | <0.00061 | 0.0022 J | 0.0019 J | <0.00061 | <0.00061 | 0.0025 J | 0.0022 J |
| Comb. Radium 226/228 | | 0.322 U | 0.633 | 0.139 U | 0.473 | 0.564 | 0.764 | 0.488 U | 0.591 | 0.727 | 0.942 | 0.438 U | 0.247 U |
| Selenium | | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | 0.0023 J | 0.0023 J | <0.0015 | <0.0015 |
| Thallium | <0.00015 | <0.00015 | <0.00015 | <0.00015 | 0.00021 J | 0.00019 J | <0.00015 | <0.00015 | <0.00015 | <0.00015 | <0.00015 | <0.00015 | |

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

| | Well ID: | WGWC-19 | WGWC-19 | WGWC-20 ⁽⁴⁾ | WGWC-20 ⁽⁴⁾ | WGWC-21 ⁽⁴⁾ | WGWC-21 ⁽⁴⁾ | WGWC-22 ⁽⁴⁾ | WGWC-22 ⁽⁴⁾ | WGWC-23 ⁽⁴⁾ | WGWC-23 ⁽⁴⁾ | WGWC-24 ⁽⁴⁾ | WGWC-24 ⁽⁴⁾ |
|----------------------|----------------------------|-----------|-----------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | Sample Date: | 2/3/2021 | 3/11/2021 | 3/8/2021 | 4/8/2021 | 3/9/2021 | 4/7/2021 | 3/9/2021 | 4/8/2021 | 3/9/2021 | 4/7/2021 | 3/9/2021 | 4/8/2021 |
| | Parameter ^(1,2) | | | | | | | | | | | | |
| Appendix III | Boron | -- | <0.039 | 1.3 | 0.98 | 0.19 | 0.13 | 0.33 | 0.21 | 0.073 J | < 0.039 | 1.8 | 1.9 |
| | Calcium | -- | 15 | 90 | 88 | 66 | 67 | 15 | 14 | 3.2 | 2.7 | 65 | 71 |
| | Chloride | -- | 2.9 | 70 | 57 | 58 | 50 | 2.9 | 2.4 | 3.5 | 3.7 | 110 | 110 |
| | Fluoride | 0.30 | 0.31 | 1.8 | 1.7 | 1.7 | 1.5 | 1.1 | 1.4 | 0.092 J | 0.093 J | 1.0 | 1.1 |
| | pH ⁽³⁾ | 6.75 | 7.12 | 5.54 | 5.60 | 7.29 | 7.05 | 5.56 | 6.01 | 5.81 | 5.57 | 4.29 | 4.43 |
| | Sulfate | -- | 4.0 | 240 | 240 | 230 | 190 | 80 | 60 | 14 | 5.1 | 140 | 160 |
| | TDS | -- | 100 | 590 | 540 | 610 | 520 | 200 | 170 | 79 | 66 | 370 | 510 |
| | Appendix IV | Antimony | <0.00038 | <0.00038 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Arsenic | | <0.00031 | <0.00031 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Barium | | <0.0016 | <0.0016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Beryllium | | <0.00018 | <0.00018 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Cadmium | | <0.00022 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chromium | | <0.0015 | <0.0015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Cobalt | | 0.00025 J | 0.00022 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Fluoride | | 0.30 | 0.31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Lead | | <0.00013 | <0.00013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Lithium | | 0.060 | 0.051 | 0.11 | 0.11 | 0.022 | 0.031 | 0.011 | 0.0081 | <0.0034 | <0.0034 | 0.0084 | 0.0077 |
| Mercury | | <0.00013 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Molybdenum | | 0.0013 J | 0.0012 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Comb. Radium 226/228 | | 0.684 | 0.286 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Selenium | | <0.0015 | <0.0015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Thallium | 0.00018 J | <0.00015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

| | Well ID: | WGWC-25 ⁽⁴⁾ | WGWC-25 ⁽⁴⁾ | PZ-23D | PZ-23D | PZ-26D | PZ-26D | PZ-27D | PZ-27D | PZ-28 | PZ-28 | PZ-29D | PZ-29D |
|--------------|----------------------------|------------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|
| | Sample Date: | 3/8/2021 | 4/8/2021 | 3/9/2021 | 4/8/2021 | 3/9/2021 | 4/7/2021 | 3/8/2021 | 4/7/2021 | 3/9/2021 | 4/8/2021 | 3/11/2021 | 4/8/2021 |
| | Parameter ^(1,2) | | | | | | | | | | | | |
| Appendix III | Boron | 0.48 | 0.43 | 0.62 | 0.59 | 0.22 | 0.15 | 0.23 | 0.18 | 0.044 J | < 0.039 | < 0.039 | < 0.039 |
| | Calcium | 14 | 16 | 50 | 59 | 17 | 18 | 33 | 26 | 3.6 | 4.1 | 41 | 35 |
| | Chloride | 74 | 77 | 36 | 39 | 20 | 20 | 150 | 100 | 1.8 | 3.6 | 7.2 | 4.5 |
| | Fluoride | < 0.026 | 0.028 J | 2.3 | 2.2 | 0.26 | 0.22 | 0.38 | 0.20 | < 0.026 | < 0.026 | 0.049 J | 0.056 J |
| | pH ⁽³⁾ | 5.36 | 5.39 | 6.85 | 6.94 | 6.19 | 6.46 | 7.44 | 7.38 | 5.65 | 5.7 | 6.41 | 6.34 |
| | Sulfate | 4.7 | 5.8 | 100 | 98 | 46 | 48 | 160 | 92 | 1.1 | 1.7 | 11 | 6.4 |
| | TDS | 220 | 180 | 300 | 300 | 180 | 410 | 700 | 480 | 53 | 62 | 210 | 180 |
| Appendix IV | Antimony | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Arsenic | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Barium | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Beryllium | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cadmium | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Chromium | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Cobalt | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Fluoride | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Lead | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Lithium | 0.0046 J | 0.0044 J | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Mercury | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Molybdenum | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Comb. Radium 226/228 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Selenium | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Thallium | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

Table 6
Summary of Background Concentrations and Groundwater Protection Standards
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

| Analyte | Units | Background ⁽¹⁾ | Federal GWPS ⁽²⁾ | State GWPS ⁽³⁾ |
|-------------------------|-------|---------------------------|-----------------------------|---------------------------|
| Antimony | mg/L | 0.0022 | 0.006 | 0.006 |
| Arsenic | mg/L | 0.0014 | 0.01 | 0.01 |
| Barium | mg/L | 0.062 | 2 | 2 |
| Beryllium | mg/L | 0.0025 | 0.004 | 0.004 |
| Cadmium | mg/L | 0.0025 | 0.005 | 0.005 |
| Chromium | mg/L | 0.0049 | 0.1 | 0.1 |
| Cobalt | mg/L | 0.013 | 0.013 | 0.013 |
| Fluoride | mg/L | 0.284 | 4 | 4 |
| Lead | mg/L | 0.001 | 0.015 | 0.001 |
| Lithium | mg/L | 0.009 | 0.040 | 0.009 |
| Mercury | mg/L | 0.0002 | 0.002 | 0.002 |
| Molybdenum | mg/L | 0.015 | 0.1 | 0.015 |
| Selenium | mg/L | 0.005 | 0.05 | 0.05 |
| Thallium | mg/L | 0.001 | 0.002 | 0.002 |
| Combined Radium-226/228 | pCi/L | 10.4 | 10.4 | 10.4 |

Notes:

mg/L = milligrams per liter

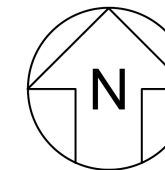
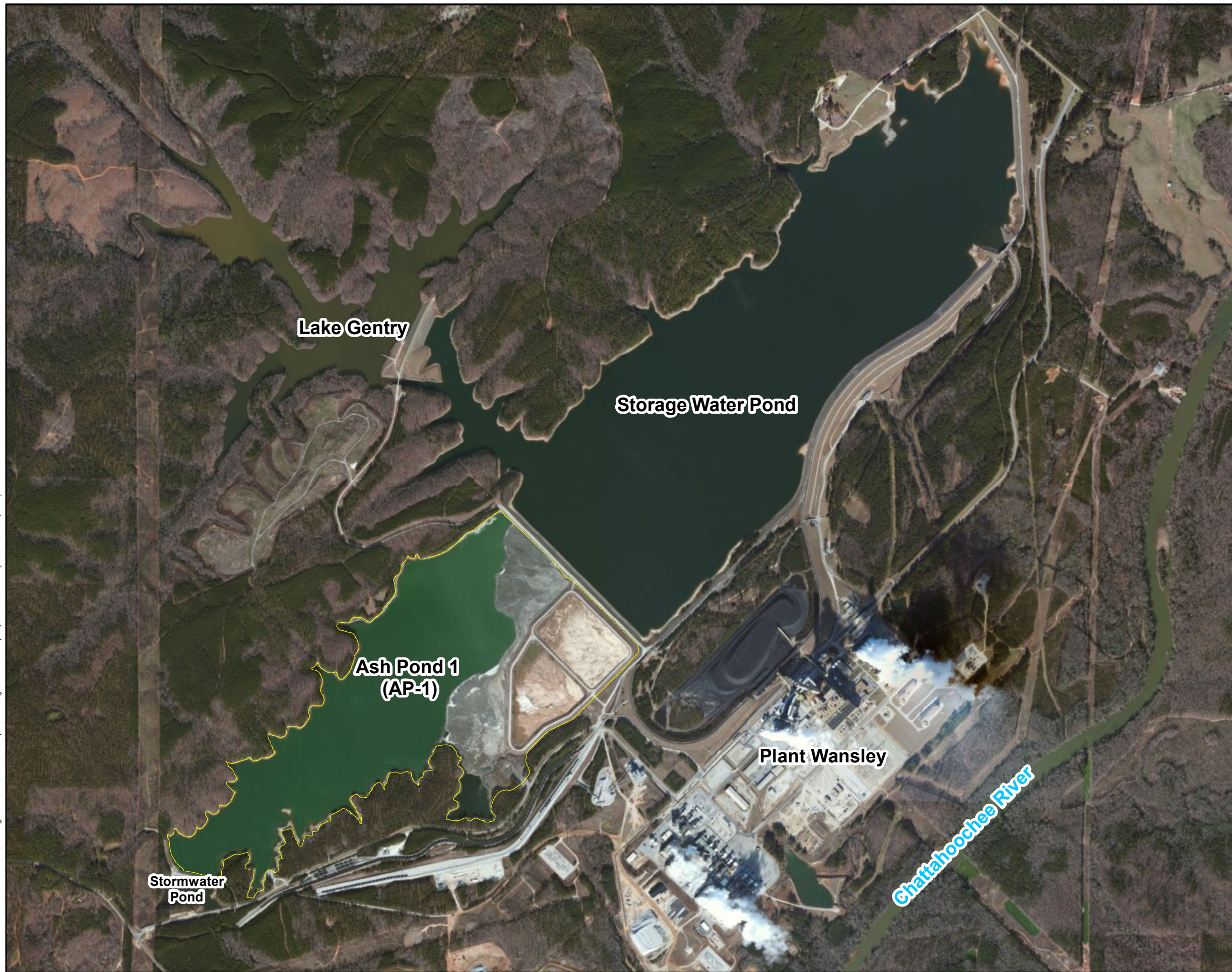
pCi/L = picocuries per liter

Statistical analyses were performed on semiannual monitoring events for data through March 2021.

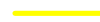
- (1) The background limits were used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia Environmental Protection Division (EPD) Rule 391-3-4-.10(6)(a).
- (2) Under 40 CFR §257.95(h)(1-3) the GWPS is: (i) the maximum contaminant level (MCL) established under § 141.62 and § 141.66 of this title; (ii) where an MCL has not been established a rule-specific GWPS is used; or (iii) background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.
- (3) Under the existing Georgia EPD rules, the GWPS is: (i) the MCL, (ii) where the MCL is not established, the background concentration, or (iii) background concentrations for constituents where the background level is higher than the MCL.

FIGURES

2021 Semiannual Groundwater Monitoring & Corrective Action Report - Georgia Power Company - Plant Wansley Ash Pond 1 (AP-1)



Legend

 Approximate AP-1 Boundary



Notes:
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, June 2018.



SITE LOCATION MAP

GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

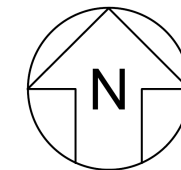
Prepared For:  Georgia Power

Prepared By: 





FIGURE
1

KENNESAW, GA

AUGUST 2021



LEGEND

-  Compliance Monitoring Well
-  Characterization Monitoring Well
-  Piezometer
-  Approximate AP-1 Boundary

Notes:
 1. Service Layer Credits: 2020-04-05 Worldview 3 Satellite imagery. Purchased from Harris Geospatial.



GROUNDWATER MONITORING WELL NETWORK MAP

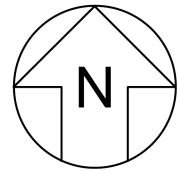
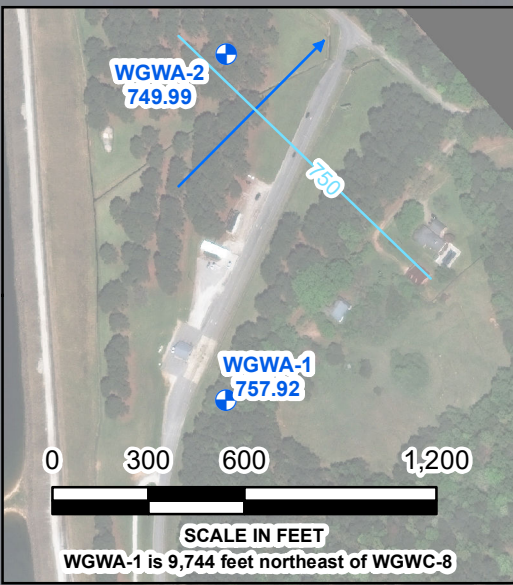
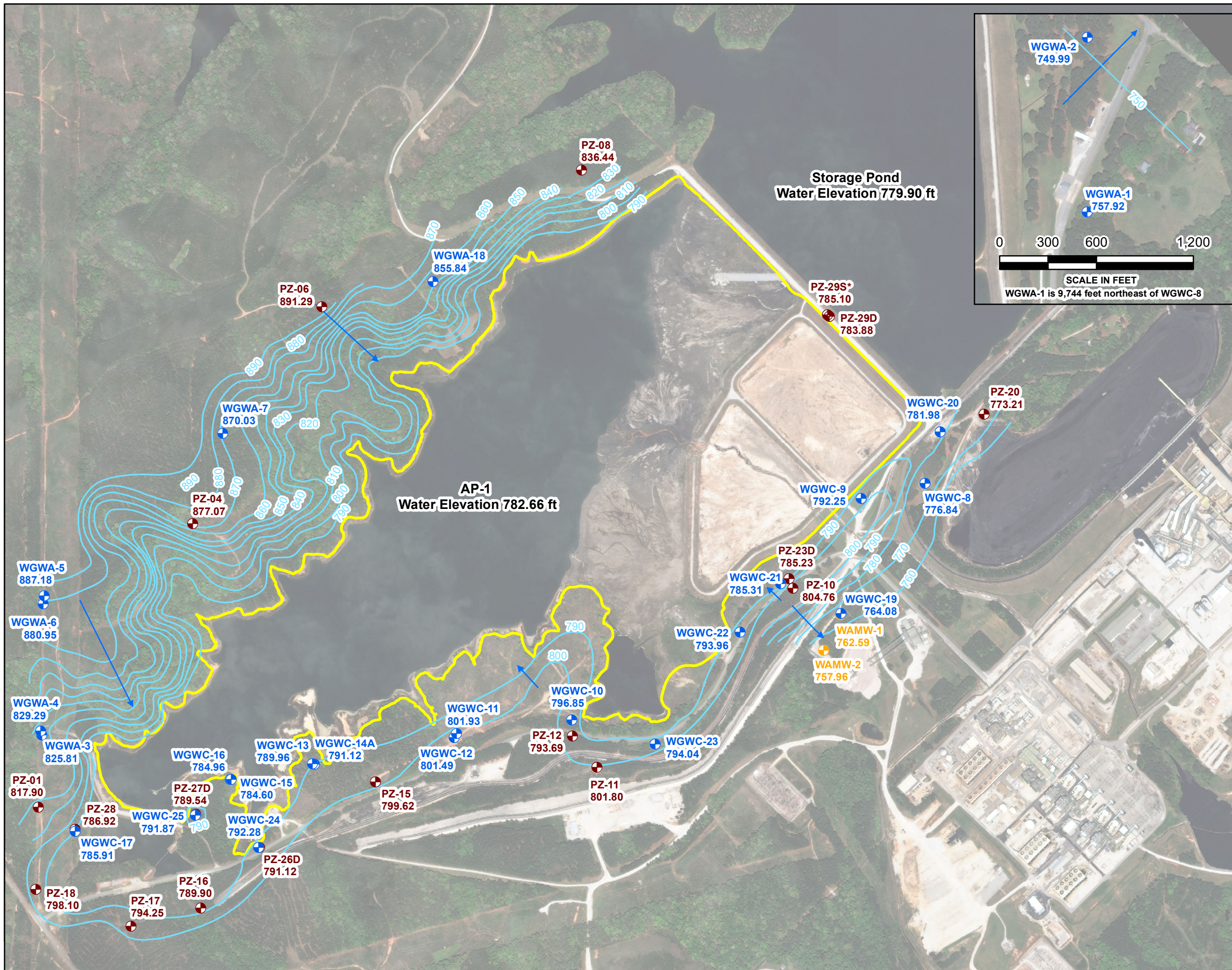
GEORGIA POWER COMPANY
 PLANT WANSLEY AP-1
 HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For:  Georgia Power

Prepared By:  Geosyntec consultants

KENNESAW, GA AUGUST 2021

FIGURE 2



Legend

- Compliance Monitoring Well
- Characterization Monitoring Well
- Piezometer
- Approximate Groundwater Flow Direction
- Groundwater Elevation Iso-Contour
- Approximate AP-1 Boundary

Notes:
 1. Water level elevation recorded on February 1, 2021. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
 2. Service Layer Credits: 2020-04-05 Worldview 3 Satellite imagery. Purchased from Harris Geospatial.
 * Piezometer PZ-29S is installed within dike materials and may not be representative of actual groundwater conditions.



**POTENTIOMETRIC SURFACE CONTOUR MAP
 FEBRUARY 2021**

GEORGIA POWER COMPANY
 PLANT WANSLEY AP-1
 HEARD AND CARROLL COUNTIES, GEORGIA

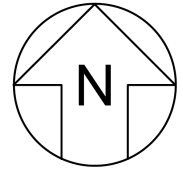
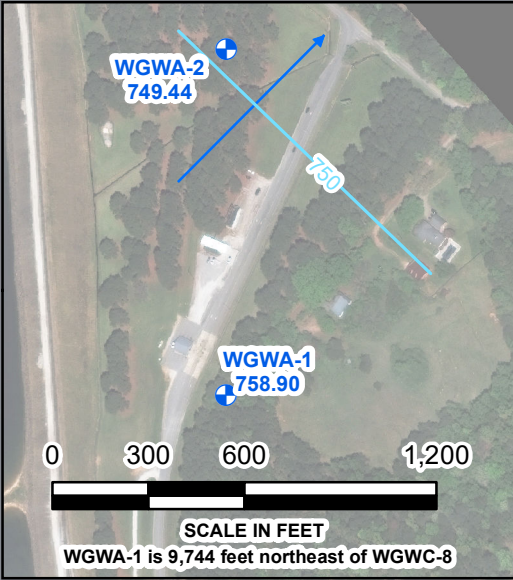
Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

KENNESAW, GA AUGUST 2021

FIGURE

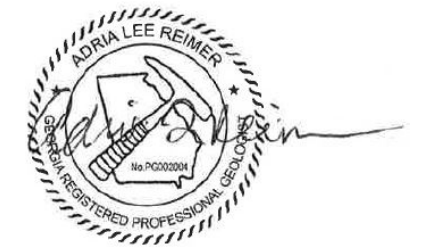
3



Legend

- Compliance Monitoring Well
- Characterization Monitoring Well
- Piezometer
- Approximate Groundwater Flow Direction
- Groundwater Elevation Iso-Contour
- Approximate AP-1 Boundary

Notes:
 1. Water level elevation recorded on March 8, 2021. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
 2. Service Layer Credits: 2020-04-05 Worldview 3 Satellite imagery. Purchased from Harris Geospatial.
 * Piezometer PZ-29S is installed within dike materials and may not be representative of actual groundwater conditions.



**POTENTIOMETRIC SURFACE CONTOUR MAP
MARCH 2021**

GEORGIA POWER COMPANY
 PLANT WANSLEY AP-1
 HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

KENNESAW, GA AUGUST 2021

FIGURE

4

APPENDIX A

Well Inspection Forms

Well Inspection Forms – February 2021

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

1 - Location/Identification

| | | WGWA-1 | WGWA-2 | WGWA-3 | WGWA-4 | WGWA-5 | WGWA-6 | WGWA-7 | WGWA-18 | WGWC-8 | WGWC-9 | WGWC-10 |
|---|--|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| a | Is the well visible and accessible? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Is the well properly identified with the correct well ID? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Does the well require protection from traffic? | No | No | No | No | No | No | No | No | No | No | No |
| d | Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

2 - Protective Outer Casing

| | | WGWA-1 | WGWA-2 | WGWA-3 | WGWA-4 | WGWA-5 | WGWA-6 | WGWA-7 | WGWA-18 | WGWC-8 | WGWC-9 | WGWC-10 |
|---|--|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| a | Is the protective casing free from apparent damage? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Is the casing free of degradation or deterioration? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Does the casing have a functioning weep hole? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| d | Is the annular space between casings filled with pea gravel or sand? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| e | Is the well locked, and is the lock in good working condition? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

3 - Surface Pad

| | | WGWA-1 | WGWA-2 | WGWA-3 | WGWA-4 | WGWA-5 | WGWA-6 | WGWA-7 | WGWA-18 | WGWC-8 | WGWC-9 | WGWC-10 |
|---|---|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| a | Is the well pad in good condition? (Not cracked or broken) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Does the well pad provide adequate surface seal and stability to the well? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Is the well pad in complete contact with the protective casing? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| d | Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| e | Is the pad surface clean? (Not covered by soil or debris) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

4 - Internal Well Casing

| | | WGWA-1 | WGWA-2 | WGWA-3 | WGWA-4 | WGWA-5 | WGWA-6 | WGWA-7 | WGWA-18 | WGWC-8 | WGWC-9 | WGWC-10 |
|---|--|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| a | Does the well cap prevent entry of foreign material into the well? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Does the well have a venting hole near the top of casing? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| d | Is the survey point clearly marked on the inner casing? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| e | Is the depth of the well consistent with the original well log? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| f | Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction? | No | No | No | No | No | No | No | No | No | No | No |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

5 - Sampling (Groundwater Monitoring Wells Only):

| | | WGWA-1 | WGWA-2 | WGWA-3 | WGWA-4 | WGWA-5 | WGWA-6 | WGWA-7 | WGWA-18 | WGWC-8 | WGWC-9 | WGWC-10 |
|---|--|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| a | Does the well recharge adequately when purged? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | If dedicated sampling equipment is installed, is it in good condition? | Yes | Yes | Yes | Yes | N/A | Yes | N/A | Yes | Yes | N/A | Yes |
| c | Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs? | No | No | No | No | No | No | No | No | No | No | No |

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

| | WGWA-1 | WGWA-2 | WGWA-3 | WGWA-4 | WGWA-5 | WGWA-6 | WGWA-7 | WGWA-18 | WGWC-8 | WGWC-9 | WGWC-10 |
|---|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| 1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

7 - Corrective actions completed and Notes:

Facility Name: Plant Wansley AP

Staff: O. Fuquea, H. Auld

Date: 2/1/2021

1 - Location/Identification

| | | WGWC-11 | WGWC-12 | WGWC-13 | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 | PZ-1 | PZ-4 | PZ-6 |
|---|--|---------|---------|---------|----------|---------|---------|---------|---------|------|------|------|
| a | Is the well visible and accessible? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Is the well properly identified with the correct well ID? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Does the well require protection from traffic? | No | No | No | No | No | No | No | No | No | No | No |
| d | Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

2 - Protective Outer Casing

| | | WGWC-11 | WGWC-12 | WGWC-13 | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 | PZ-1 | PZ-4 | PZ-6 |
|---|--|---------|---------|---------|----------|---------|---------|---------|---------|------|------|------|
| a | Is the protective casing free from apparent damage? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Is the casing free of degradation or deterioration? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Does the casing have a functioning weep hole? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| d | Is the annular space between casings filled with pea gravel or sand? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| e | Is the well locked, and is the lock in good working condition? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

3 - Surface Pad

| | | WGWC-11 | WGWC-12 | WGWC-13 | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 | PZ-1 | PZ-4 | PZ-6 |
|---|---|---------|---------|---------|----------|---------|---------|---------|---------|------|------|------|
| a | Is the well pad in good condition? (Not cracked or broken) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Does the well pad provide adequate surface seal and stability to the well? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Is the well pad in complete contact with the protective casing? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| d | Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| e | Is the pad surface clean? (Not covered by soil or debris) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

Facility Name: Plant Wansley AP

Staff: O. Fuquea, H. Auld

Date: 2/1/2021

4 - Internal Well Casing

| | | WGWC-11 | WGWC-12 | WGWC-13 | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 | PZ-1 | PZ-4 | PZ-6 |
|---|--|---------|---------|---------|----------|---------|---------|---------|---------|------|------|------|
| a | Does the well cap prevent entry of foreign material into the well? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Does the well have a venting hole near the top of casing? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| d | Is the survey point clearly marked on the inner casing? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| e | Is the depth of the well consistent with the original well log? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| f | Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction? | No | No | No | No | No | No | No | No | No | No | No |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

5 - Sampling (Groundwater Monitoring Wells Only):

| | | WGWC-11 | WGWC-12 | WGWC-13 | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 | PZ-1 | PZ-4 | PZ-6 |
|---|--|---------|---------|---------|----------|---------|---------|---------|---------|------|------|------|
| a | Does the well recharge adequately when purged? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | N/A | N/A | N/A |
| b | If dedicated sampling equipment is installed, is it in good condition? | Yes | Yes | Yes | N/A | Yes | Yes | Yes | Yes | N/A | N/A | N/A |
| c | Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs? | No | No | No | No | No | No | No | No | N/A | N/A | N/A |

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

| | WGWC-11 | WGWC-12 | WGWC-13 | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 | PZ-1 | PZ-4 | PZ-6 |
|---|---------|---------|---------|----------|---------|---------|---------|---------|------|------|------|
| 1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

7 - Corrective actions completed and Notes:

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

| 1 - Location/Identification | | PZ-8 | PZ-10 | PZ-11 | PZ-12 | PZ-15 | PZ-16 | PZ-17 | PZ-18 | PZ-20 | PZ-22 | PZ-23D |
|-----------------------------|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| a | Is the well visible and accessible? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Is the well properly identified with the correct well ID? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Does the well require protection from traffic? | No | No | No | No | No | No | No | No | No | No | No |
| d | Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

2 - Protective Outer Casing

| | | PZ-8 | PZ-10 | PZ-11 | PZ-12 | PZ-15 | PZ-16 | PZ-17 | PZ-18 | PZ-20 | PZ-22 | PZ-23D |
|---|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| a | Is the protective casing free from apparent damage? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Is the casing free of degradation or deterioration? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Does the casing have a functioning weep hole? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| d | Is the annular space between casings filled with pea gravel or sand? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| e | Is the well locked, and is the lock in good working condition? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

3 - Surface Pad

| | | PZ-8 | PZ-10 | PZ-11 | PZ-12 | PZ-15 | PZ-16 | PZ-17 | PZ-18 | PZ-20 | PZ-22 | PZ-23D |
|---|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| a | Is the well pad in good condition? (Not cracked or broken) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Does the well pad provide adequate surface seal and stability to the well? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Is the well pad in complete contact with the protective casing? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| d | Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| e | Is the pad surface clean? (Not covered by soil or debris) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

| 4 - Internal Well Casing | | PZ-8 | PZ-10 | PZ-11 | PZ-12 | PZ-15 | PZ-16 | PZ-17 | PZ-18 | PZ-20 | PZ-22 | PZ-23D |
|--------------------------|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| a | Does the well cap prevent entry of foreign material into the well? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Does the well have a venting hole near the top of casing? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| d | Is the survey point clearly marked on the inner casing? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| e | Is the depth of the well consistent with the original well log? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| f | Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction? | No | No | No | No | No | No | No | No | No | No | No |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

5 - Sampling (Groundwater Monitoring Wells Only):

| | | PZ-8 | PZ-10 | PZ-11 | PZ-12 | PZ-15 | PZ-16 | PZ-17 | PZ-18 | PZ-20 | PZ-22 | PZ-23D |
|---|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| a | Does the well recharge adequately when purged? | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| b | If dedicated sampling equipment is installed, is it in good condition? | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| c | Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs? | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

| | PZ-8 | PZ-10 | PZ-11 | PZ-12 | PZ-15 | PZ-16 | PZ-17 | PZ-18 | PZ-20 | PZ-22 | PZ-23D |
|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

7 - Corrective actions completed and Notes:

- 1) PZ-11: Label added.

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

1 - Location/Identification

| | | PZ-23S | PZ-24 | PZ-25S | PZ-26D | PZ-26S | PZ-27D | PZ-27S | PZ-28 | PZ-29D | PZ-29S | WAMW-1 | WAMW-2 |
|---|--|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| a | Is the well visible and accessible? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Is the well properly identified with the correct well ID? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Does the well require protection from traffic? | No | No | No | No | No | No | No | No | No | No | No | No |
| d | Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

2 - Protective Outer Casing

| | | PZ-23S | PZ-24 | PZ-25S | PZ-26D | PZ-26S | PZ-27D | PZ-27S | PZ-28 | PZ-29D | PZ-29S | WAMW-1 | WAMW-2 |
|---|--|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| a | Is the protective casing free from apparent damage? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Is the casing free of degradation or deterioration? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Does the casing have a functioning weep hole? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| d | Is the annular space between casings filled with pea gravel or sand? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| e | Is the well locked, and is the lock in good working condition? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

3 - Surface Pad

| | | PZ-23S | PZ-24 | PZ-25S | PZ-26D | PZ-26S | PZ-27D | PZ-27S | PZ-28 | PZ-29D | PZ-29S | WAMW-1 | WAMW-2 |
|---|---|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| a | Is the well pad in good condition? (Not cracked or broken) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Does the well pad provide adequate surface seal and stability to the well? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Is the well pad in complete contact with the protective casing? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| d | Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| e | Is the pad surface clean? (Not covered by soil or debris) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

4 - Internal Well Casing

| | | PZ-23S | PZ-24 | PZ-25S | PZ-26D | PZ-26S | PZ-27D | PZ-27S | PZ-28 | PZ-29D | PZ-29S | WAMW-1 | WAMW-2 |
|---|--|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| a | Does the well cap prevent entry of foreign material into the well? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| b | Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| c | Does the well have a venting hole near the top of casing? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| d | Is the survey point clearly marked on the inner casing? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| e | Is the depth of the well consistent with the original well log? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| f | Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction? | No | No | No | No | No | No | No | No | No | No | No | No |

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

5 - Sampling (Groundwater Monitoring Wells Only):

| | | PZ-23S | PZ-24 | PZ-25S | PZ-26D | PZ-26S | PZ-27D | PZ-27S | PZ-28 | PZ-29D | PZ-29S | WAMW-1 | WAMW-2 |
|---|--|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| a | Does the well recharge adequately when purged? | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| b | If dedicated sampling equipment is installed, is it in good condition? | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| c | Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs? | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

| | PZ-23S | PZ-24 | PZ-25S | PZ-26D | PZ-26S | PZ-27D | PZ-27S | PZ-28 | PZ-29D | PZ-29S | WAMW-1 | WAMW-2 |
|---|--------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| 1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

7 - Corrective actions completed and Notes:

- 1) PZ-29D: Label and vent hole added.
- 2) PZ-29S: Label and vent hole added.

Well Inspection Forms – March 2021

Well Inspection Form - Well Inspection Criteria

Date: 3-8-21

Staff: RW-TG-HA

1 - Location/Identification

- a Is the well visible and accessible?
- b Is the well properly identified with the correct well ID?
- c Does the well require protection from traffic?
- d Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)

2 - Protective Outer Casing

- a Is the protective casing free from apparent damage?
- b Is the casing free of degradation or deterioration?
- c Does the casing have a functioning weep hole?
- d Is the annular space between casings filled with pea gravel or sand?
- e Is the well locked, and is the lock in good working condition?

3 - Surface Pad

- a Is the well pad in good condition? (Not cracked or broken)
- b Does the well pad provide adequate surface seal and stability to the well?
- c Is the well pad in complete contact with the protective casing?
- d Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)
- e Is the pad surface clean? (Not covered by soil or debris)

4 - Internal Well Casing

- a Does the well cap prevent entry of foreign material into the well?
- b Is the casing free of kinks or bends, or any obstruction from foreign objects ?
- c Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?

5 - Based on your professional judgment, is the well construction / location appropriate to:

- a Achieve the objectives of the facility Ground Water Monitoring Program?
- b Comply with the applicable regulatory requirements?

Well Inspection Form - Well Condition Log

Date:

Initials: RW

| Well ID | Good Condition All Criteria Met | Deficiencies | Corrective Action Taken | Corrective Action Still Needed |
|---------|------------------------------------|--------------|----------------------------|-----------------------------------|
| PZ-1 | ✓ | | | |
| PZ-4 | ✓ | | | |
| PZ-6 | ✓ | | | |
| PZ-8 | ✓ | | | |
| PZ-10 | ✓ | | | |
| PZ-11 | | ✓ | ✓ | |
| PZ-12 | ✓ | | | |
| PZ-15 | ✓ | | | |
| PZ-16 | ✓ | | | |
| PZ-17 | | ✓ | ✓ | |
| PZ-18 | ✓ | | | |
| PZ-20 | ✓ | | | |
| WAMW-1 | ✓ | | | |
| WAMW-2 | ✓ | | | |
| WGWA-1 | ✓ | | | |
| WGWA-2 | ✓ | | | |
| WGWA-3 | ✓ | | | |
| WGWA-4 | ✓ | | | |
| WGWA-5 | ✓ | | | |

Check all appropriate boxes above. On the following page, provide details for any deficiencies and corrective actions taken. If any repairs could not be made, list them in the corrective actions still needed table.

Well Inspection Form - Well Condition Log

Date:

Initials: *RW*

| Well ID | Good Condition All Criteria Met | Deficiencies | Corrective Action Taken | Corrective Action Still Needed |
|----------|------------------------------------|--------------|----------------------------|-----------------------------------|
| WGWA-6 | ✓ | | | |
| WGWA-7 | ✓ | | | |
| WGWA-18 | ✓ | | | |
| WGWC-8 | ✓ | | | |
| WGWC-9 | ✓ | | | |
| WGWC-10 | ✓ | | | |
| WGWC-11 | ✓ | | | |
| WGWC-12 | ✓ | | | |
| WGWC-13 | ✓ | | | |
| WGWC-14A | ✓ | | | |
| WGWC-15 | ✓ | | | |
| WGWC-16 | ✓ | | | |
| WGWC-17 | ✓ | | | |
| WGWC-19 | ✓ | | | |
| PZ-29S | | ✓ | ✓ | |
| PZ-29D | | ✓ | ✓ | |
| PZ-24 | | ✓ | ✓ | |
| PZ-27S | | ✓ | ✓ | |
| PZ-27D | | ✓ | ✓ | |

Check all appropriate boxes above. On the following page, provide details for any deficiencies and corrective actions taken. If any repairs could not be made, list them in the corrective actions still needed table.

Well Inspection Form - Corrective Actions & Summary

Well ID

| | |
|------------------|---|
| PZ-11, BB, DD | Deficiency Noted: No label |
| | Action Taken: label added |
| LPZ-3 | Deficiency Noted: No cap |
| | Action Taken: Cap added |
| PZ-24 S/D | Deficiency Noted: No vent hole / No label |
| | Action Taken: Vent hole / label added |
| PZ-17 | Deficiency Noted: label faded |
| | Action Taken: added label |
| PZ-24, PZ-27 S/D | Deficiency Noted: No weep hole |
| | Action Taken: Weep hole added |
| | Deficiency Noted: |
| | Action Taken: |
| | Deficiency Noted: |
| | Action Taken: |
| | Deficiency Noted: |
| | Action Taken: |
| | Deficiency Noted: |
| | Action Taken: |
| | Deficiency Noted: |
| | Action Taken: |
| | Deficiency Noted: |
| | Action Taken: |

Well ID

Corrective Action Still Needed

| | |
|--|-------------------|
| | Deficiency Noted: |
| | Deficiency Noted: |
| | Deficiency Noted: |
| | Deficiency Noted: |
| | Deficiency Noted: |

Summary

Initials: RW

All monitoring wells are in good condition and any needed repairs have been made

Initials:

Further corrective action is still needed - see list above

Staff: RW-TG-1A

Signature: 

Date: 3-8-21

APPENDIX B

Analytical Laboratory Results and Field Sampling Forms

Appendix B1: Analytical Laboratory Packages

Appendix B2: Data Validation Reports

Appendix B3: Field Sampling and Equipment Calibration Forms

APPENDIX B1

Analytical Laboratory Packages

Analytical Laboratory Packages – February 2021

ANALYTICAL REPORT

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

Laboratory Job ID: 180-116807-1

Client Project/Site: CCR - Plant Wansley Ash Pond
Revision: 1

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
4/5/2021 7:12:21 AM

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

LINKS

Review your project
results through
Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Job ID: 180-116807-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-116807-1

Comments

040521 Revised Report to correct Fluoride RL from 0.2 to 0.1mg/L; this report replaces the report previously issued on

Receipt

The samples were received on 2/4/2021 9:30 AM and 2/6/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.2° C, 2.1° C, 2.5° C, 2.6° C, 2.8° C and 3.1° C.

Receipt Exceptions

The container labels for the two plastic liters for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWC-12 (180-116916-7). The container labels list a sample collection date of 2/2/21, while the COC lists 2/3/21. The date on the COC was used.

The container label for one out of two of the plastic liters for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWC-17 (180-116916-11). The container labels list a sample collection date of 3/2/21 while the COC lists 2/4/21. The date on the COC was used.

GC Semi VOA

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

Metals

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

Field Service / Mobile Lab

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

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Qualifiers

HPLC/IC

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

Metals

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

Glossary

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

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

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

Eurofins TestAmerica, Pittsburgh



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 180-116807-1 | Dup-1 | Water | 02/02/21 00:00 | 02/04/21 09:30 | |
| 180-116807-2 | EB-1 | Water | 02/02/21 14:45 | 02/04/21 09:30 | |
| 180-116807-3 | WGWA-1 | Water | 02/02/21 11:15 | 02/04/21 09:30 | |
| 180-116807-4 | WGWA-2 | Water | 02/02/21 12:20 | 02/04/21 09:30 | |
| 180-116807-5 | WGWA-18 | Water | 02/02/21 14:50 | 02/04/21 09:30 | |
| 180-116807-6 | WGWA-3 | Water | 02/02/21 11:45 | 02/04/21 09:30 | |
| 180-116807-7 | WGWA-4 | Water | 02/02/21 12:50 | 02/04/21 09:30 | |
| 180-116807-8 | WGWA-7 | Water | 02/02/21 14:10 | 02/04/21 09:30 | |
| 180-116916-1 | Dup-2 | Water | 02/04/21 00:00 | 02/06/21 10:00 | |
| 180-116916-2 | FB-2 | Water | 02/04/21 13:20 | 02/06/21 10:00 | |
| 180-116916-3 | WGWA-6 | Water | 02/03/21 10:30 | 02/06/21 10:00 | |
| 180-116916-4 | WGWA-5 | Water | 02/03/21 13:25 | 02/06/21 10:00 | |
| 180-116916-5 | WGWC-19 | Water | 02/03/21 14:30 | 02/06/21 10:00 | |
| 180-116916-6 | WGWC-11 | Water | 02/03/21 14:35 | 02/06/21 10:00 | |
| 180-116916-7 | WGWC-12 | Water | 02/03/21 13:25 | 02/06/21 10:00 | |
| 180-116916-8 | WGWC-8 | Water | 02/03/21 15:45 | 02/06/21 10:00 | |
| 180-116916-9 | WGWC-15 | Water | 02/04/21 11:05 | 02/06/21 10:00 | |
| 180-116916-10 | WGWC-16 | Water | 02/04/21 12:30 | 02/06/21 10:00 | |
| 180-116916-11 | WGWC-17 | Water | 02/04/21 13:45 | 02/06/21 10:00 | |
| 180-116916-12 | FB-1 | Water | 02/04/21 14:15 | 02/06/21 10:00 | |
| 180-116916-13 | EB-2 | Water | 02/04/21 14:30 | 02/06/21 10:00 | |
| 180-116916-14 | WGWC-9 | Water | 02/04/21 14:12 | 02/06/21 10:00 | |
| 180-116916-15 | WGWC-10 | Water | 02/04/21 15:50 | 02/06/21 10:00 | |
| 180-116916-16 | WGWC-13 | Water | 02/04/21 11:15 | 02/06/21 10:00 | |
| 180-116916-17 | WGWC-14A | Water | 02/04/21 12:40 | 02/06/21 10:00 | |

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

| Method | Method Description | Protocol | Laboratory |
|----------------|--|----------|------------|
| 300.0 | Anions, Ion Chromatography | MCAWW | TAL PIT |
| EPA 6020B | Metals (ICP/MS) | SW846 | TAL PIT |
| EPA 7470A | Mercury (CVAA) | SW846 | TAL PIT |
| Field Sampling | Field Sampling | EPA | TAL PIT |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | TAL PIT |
| 7470A | Preparation, Mercury | SW846 | TAL PIT |

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: Dup-1

Date Collected: 02/02/21 00:00

Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 345752 | 02/06/21 15:03 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346412 | 02/12/21 11:15 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 346771 | 02/13/21 12:12 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 345897 | 02/09/21 06:53 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 346160 | 02/10/21 11:48 | KHM | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |

Client Sample ID: EB-1

Date Collected: 02/02/21 14:45

Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 345752 | 02/06/21 16:05 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346412 | 02/12/21 11:15 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 346771 | 02/13/21 12:16 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 345897 | 02/09/21 06:53 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 346160 | 02/10/21 11:52 | KHM | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |

Client Sample ID: WGWA-1

Date Collected: 02/02/21 11:15

Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 345752 | 02/06/21 16:26 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346412 | 02/12/21 11:15 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 346771 | 02/13/21 12:19 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 345897 | 02/09/21 06:53 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 346160 | 02/10/21 11:53 | KHM | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/02/21 11:15 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-2

Date Collected: 02/02/21 12:20

Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 345752 | 02/06/21 13:39 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-116807-4

Date Collected: 02/02/21 12:20

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346412 | 02/12/21 11:15 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 346771 | 02/13/21 12:38 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 345897 | 02/09/21 06:53 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 346160 | 02/10/21 11:54 | KHM | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/02/21 12:20 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-18

Lab Sample ID: 180-116807-5

Date Collected: 02/02/21 14:50

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 345752 | 02/06/21 14:00 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346412 | 02/12/21 11:15 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 346771 | 02/13/21 12:59 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 345897 | 02/09/21 06:53 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 346160 | 02/10/21 11:55 | KHM | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/02/21 14:50 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-3

Lab Sample ID: 180-116807-6

Date Collected: 02/02/21 11:45

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 345752 | 02/06/21 14:42 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346412 | 02/12/21 11:15 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 346771 | 02/13/21 13:03 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 345897 | 02/09/21 06:53 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 346160 | 02/10/21 11:56 | KHM | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/02/21 11:45 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWA-4

Lab Sample ID: 180-116807-7

Date Collected: 02/02/21 12:50

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 345752 | 02/06/21 14:21 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346412 | 02/12/21 11:15 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 346771 | 02/13/21 13:07 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 345897 | 02/09/21 06:53 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 346160 | 02/10/21 11:57 | KHM | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/02/21 12:50 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-7

Lab Sample ID: 180-116807-8

Date Collected: 02/02/21 14:10

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 345752 | 02/06/21 12:36 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346412 | 02/12/21 11:15 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 346771 | 02/13/21 13:10 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 345897 | 02/09/21 06:53 | RJR | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 346160 | 02/10/21 11:58 | KHM | TAL PIT |
| Instrument ID: HGY | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/02/21 14:10 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: Dup-2

Lab Sample ID: 180-116916-1

Date Collected: 02/04/21 00:00

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346367 | 02/12/21 23:09 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 12:24 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346077 | 02/10/21 07:00 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 347002 | 02/18/21 11:37 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: FB-2

Lab Sample ID: 180-116916-2

Date Collected: 02/04/21 13:20

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346231 | 02/11/21 16:57 | SAT | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 12:27 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346077 | 02/10/21 07:00 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 347002 | 02/18/21 11:38 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |

Client Sample ID: WGWA-6

Lab Sample ID: 180-116916-3

Date Collected: 02/03/21 10:30

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346367 | 02/13/21 02:17 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 12:38 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346077 | 02/10/21 07:00 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 347002 | 02/18/21 11:39 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/03/21 10:30 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-5

Lab Sample ID: 180-116916-4

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346367 | 02/12/21 22:28 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 12:56 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346077 | 02/10/21 07:00 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 347002 | 02/18/21 11:40 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/03/21 13:25 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-116916-5

Date Collected: 02/03/21 14:30

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346367 | 02/13/21 01:56 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 13:00 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346077 | 02/10/21 07:00 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 347002 | 02/18/21 11:41 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/03/21 14:30 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-11

Lab Sample ID: 180-116916-6

Date Collected: 02/03/21 14:35

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346231 | 02/11/21 20:13 | SAT | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 13:04 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346077 | 02/10/21 07:00 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 347002 | 02/18/21 11:42 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/03/21 14:35 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-12

Lab Sample ID: 180-116916-7

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346367 | 02/13/21 02:38 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 13:07 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346077 | 02/10/21 07:00 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 347002 | 02/18/21 11:43 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/03/21 13:25 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-116916-8

Date Collected: 02/03/21 15:45

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346367 | 02/12/21 21:46 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 13:18 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346077 | 02/10/21 07:00 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 347002 | 02/18/21 11:44 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/03/21 15:45 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-15

Lab Sample ID: 180-116916-9

Date Collected: 02/04/21 11:05

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346367 | 02/13/21 01:14 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 13:22 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346077 | 02/10/21 07:00 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 347002 | 02/18/21 11:45 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/04/21 11:05 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-16

Lab Sample ID: 180-116916-10

Date Collected: 02/04/21 12:30

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346367 | 02/12/21 22:48 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 13:25 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346077 | 02/10/21 07:00 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 347002 | 02/18/21 11:48 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/04/21 12:30 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-17

Date Collected: 02/04/21 13:45

Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-11

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346231 | 02/11/21 19:57 | SAT | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 13:29 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346077 | 02/10/21 07:00 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 347002 | 02/18/21 11:49 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/04/21 13:45 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: FB-1

Date Collected: 02/04/21 14:15

Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-12

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346231 | 02/11/21 17:13 | SAT | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 13:33 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346077 | 02/10/21 07:00 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 347002 | 02/18/21 11:50 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |

Client Sample ID: EB-2

Date Collected: 02/04/21 14:30

Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-13

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346231 | 02/11/21 17:30 | SAT | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 13:36 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346077 | 02/10/21 07:00 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 347002 | 02/18/21 11:51 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |

Client Sample ID: WGWC-9

Date Collected: 02/04/21 14:12

Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-14

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346367 | 02/13/21 01:35 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-116916-14

Date Collected: 02/04/21 14:12

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 13:40 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346076 | 02/10/21 06:58 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 346421 | 02/12/21 10:53 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/04/21 14:12 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-10

Lab Sample ID: 180-116916-15

Date Collected: 02/04/21 15:50

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346231 | 02/11/21 19:40 | SAT | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 13:44 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346076 | 02/10/21 06:58 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 346421 | 02/12/21 10:56 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/04/21 15:50 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-13

Lab Sample ID: 180-116916-16

Date Collected: 02/04/21 11:15

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | | | 346367 | 02/13/21 00:12 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 13:47 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346076 | 02/10/21 06:58 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 346421 | 02/12/21 10:56 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/04/21 11:15 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-116916-17

Date Collected: 02/04/21 12:40

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 1 | 1 mL | 1.0 mL | 346231 | 02/11/21 18:51 | SAT | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 346791 | 02/17/21 07:39 | RJR | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 347044 | 02/18/21 13:58 | RSK | TAL PIT |
| Instrument ID: DORY | | | | | | | | | | |
| Total/NA | Prep | 7470A | | | 25 mL | 25 mL | 346076 | 02/10/21 06:58 | KHM | TAL PIT |
| Total/NA | Analysis | EPA 7470A | | 1 | | | 346421 | 02/12/21 10:57 | KHM | TAL PIT |
| Instrument ID: HGZ | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 346556 | 02/04/21 12:40 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

KHM = Kyle Mucroski

RJR = Ron Rosenbaum

Batch Type: Analysis

EPS = Evan Scheuer

FDS = Sampler Field

KHM = Kyle Mucroski

RSK = Robert Kurtz

SAT = Stephen Tallam

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: Dup-1
 Date Collected: 02/02/21 00:00
 Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-1
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.035 | J | 0.10 | 0.026 | mg/L | | | 02/06/21 15:03 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/12/21 11:15 | 02/13/21 12:12 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/12/21 11:15 | 02/13/21 12:12 | 1 |
| Barium | 0.014 | | 0.010 | 0.0016 | mg/L | | 02/12/21 11:15 | 02/13/21 12:12 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/12/21 11:15 | 02/13/21 12:12 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/12/21 11:15 | 02/13/21 12:12 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:12 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 12:12 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 12:12 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/12/21 11:15 | 02/13/21 12:12 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/12/21 11:15 | 02/13/21 12:12 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:12 | 1 |
| Thallium | 0.00028 | J | 0.0010 | 0.00015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:12 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/09/21 06:53 | 02/10/21 11:48 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: EB-1

Lab Sample ID: 180-116807-2

Date Collected: 02/02/21 14:45

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 02/06/21 16:05 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/12/21 11:15 | 02/13/21 12:16 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/12/21 11:15 | 02/13/21 12:16 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 02/12/21 11:15 | 02/13/21 12:16 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/12/21 11:15 | 02/13/21 12:16 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/12/21 11:15 | 02/13/21 12:16 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:16 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 12:16 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 12:16 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/12/21 11:15 | 02/13/21 12:16 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/12/21 11:15 | 02/13/21 12:16 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:16 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:16 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/09/21 06:53 | 02/10/21 11:52 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-116807-3

Date Collected: 02/02/21 11:15

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.028 | J | 0.10 | 0.026 | mg/L | | | 02/06/21 16:26 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | 0.00062 | J | 0.0020 | 0.00038 | mg/L | | 02/12/21 11:15 | 02/13/21 12:19 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/12/21 11:15 | 02/13/21 12:19 | 1 |
| Barium | 0.050 | | 0.010 | 0.0016 | mg/L | | 02/12/21 11:15 | 02/13/21 12:19 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/12/21 11:15 | 02/13/21 12:19 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/12/21 11:15 | 02/13/21 12:19 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:19 | 1 |
| Cobalt | 0.00082 | J | 0.0025 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 12:19 | 1 |
| Lead | 0.00015 | J | 0.0010 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 12:19 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/12/21 11:15 | 02/13/21 12:19 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/12/21 11:15 | 02/13/21 12:19 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:19 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:19 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/09/21 06:53 | 02/10/21 11:53 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.36 | | | | SU | | | 02/02/21 11:15 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-116807-4

Date Collected: 02/02/21 12:20

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.065 | J | 0.10 | 0.026 | mg/L | | | 02/06/21 13:39 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/12/21 11:15 | 02/13/21 12:38 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/12/21 11:15 | 02/13/21 12:38 | 1 |
| Barium | 0.025 | | 0.010 | 0.0016 | mg/L | | 02/12/21 11:15 | 02/13/21 12:38 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/12/21 11:15 | 02/13/21 12:38 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/12/21 11:15 | 02/13/21 12:38 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:38 | 1 |
| Cobalt | 0.00069 | J | 0.0025 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 12:38 | 1 |
| Lead | 0.00015 | J | 0.0010 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 12:38 | 1 |
| Lithium | 0.0065 | | 0.0050 | 0.0034 | mg/L | | 02/12/21 11:15 | 02/13/21 12:38 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/12/21 11:15 | 02/13/21 12:38 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:38 | 1 |
| Thallium | 0.00040 | J | 0.0010 | 0.00015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:38 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/09/21 06:53 | 02/10/21 11:54 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.10 | | | | SU | | | 02/02/21 12:20 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-116807-5

Date Collected: 02/02/21 14:50

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.071 | J | 0.10 | 0.026 | mg/L | | | 02/06/21 14:00 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/12/21 11:15 | 02/13/21 12:59 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/12/21 11:15 | 02/13/21 12:59 | 1 |
| Barium | 0.017 | | 0.010 | 0.0016 | mg/L | | 02/12/21 11:15 | 02/13/21 12:59 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/12/21 11:15 | 02/13/21 12:59 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/12/21 11:15 | 02/13/21 12:59 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:59 | 1 |
| Cobalt | 0.0018 | J | 0.0025 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 12:59 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 12:59 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/12/21 11:15 | 02/13/21 12:59 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/12/21 11:15 | 02/13/21 12:59 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:59 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/12/21 11:15 | 02/13/21 12:59 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/09/21 06:53 | 02/10/21 11:55 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.48 | | | | SU | | | 02/02/21 14:50 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-116807-6

Date Collected: 02/02/21 11:45

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.035 | J | 0.10 | 0.026 | mg/L | | | 02/06/21 14:42 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/12/21 11:15 | 02/13/21 13:03 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/12/21 11:15 | 02/13/21 13:03 | 1 |
| Barium | 0.015 | | 0.010 | 0.0016 | mg/L | | 02/12/21 11:15 | 02/13/21 13:03 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/12/21 11:15 | 02/13/21 13:03 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/12/21 11:15 | 02/13/21 13:03 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 13:03 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 13:03 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 13:03 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/12/21 11:15 | 02/13/21 13:03 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/12/21 11:15 | 02/13/21 13:03 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 13:03 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/12/21 11:15 | 02/13/21 13:03 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/09/21 06:53 | 02/10/21 11:56 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.78 | | | | SU | | | 02/02/21 11:45 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWA-4

Lab Sample ID: 180-116807-7

Date Collected: 02/02/21 12:50

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.15 | | 0.10 | 0.026 | mg/L | | | 02/06/21 14:21 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/12/21 11:15 | 02/13/21 13:07 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/12/21 11:15 | 02/13/21 13:07 | 1 |
| Barium | 0.0060 | J | 0.010 | 0.0016 | mg/L | | 02/12/21 11:15 | 02/13/21 13:07 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/12/21 11:15 | 02/13/21 13:07 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/12/21 11:15 | 02/13/21 13:07 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 13:07 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 13:07 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 13:07 | 1 |
| Lithium | 0.0039 | J | 0.0050 | 0.0034 | mg/L | | 02/12/21 11:15 | 02/13/21 13:07 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/12/21 11:15 | 02/13/21 13:07 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 13:07 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/12/21 11:15 | 02/13/21 13:07 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/09/21 06:53 | 02/10/21 11:57 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.61 | | | | SU | | | 02/02/21 12:50 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-116807-8

Date Collected: 02/02/21 14:10

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 02/06/21 12:36 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|--------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/12/21 11:15 | 02/13/21 13:10 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/12/21 11:15 | 02/13/21 13:10 | 1 |
| Barium | 0.012 | | 0.010 | 0.0016 | mg/L | | 02/12/21 11:15 | 02/13/21 13:10 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/12/21 11:15 | 02/13/21 13:10 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/12/21 11:15 | 02/13/21 13:10 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 13:10 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 13:10 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 13:10 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/12/21 11:15 | 02/13/21 13:10 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/12/21 11:15 | 02/13/21 13:10 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 13:10 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/12/21 11:15 | 02/13/21 13:10 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/09/21 06:53 | 02/10/21 11:58 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.84 | | | | SU | | | 02/02/21 14:10 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: Dup-2
 Date Collected: 02/04/21 00:00
 Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-1
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.69 | | 0.10 | 0.026 | mg/L | | | 02/12/21 23:09 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | 0.00052 | J | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 12:24 | 1 |
| Arsenic | 0.00083 | J | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 12:24 | 1 |
| Barium | 0.029 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 12:24 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 12:24 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 12:24 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:24 | 1 |
| Cobalt | 0.00018 | J | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 12:24 | 1 |
| Lead | 0.00043 | J | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 12:24 | 1 |
| Lithium | 0.0088 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 12:24 | 1 |
| Molybdenum | 0.0024 | J | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 12:24 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:24 | 1 |
| Thallium | 0.00030 | J | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:24 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:37 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: FB-2

Lab Sample ID: 180-116916-2

Date Collected: 02/04/21 13:20

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 02/11/21 16:57 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 12:27 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 12:27 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 12:27 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 12:27 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 12:27 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:27 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 12:27 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 12:27 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 12:27 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 12:27 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:27 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:27 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:38 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-116916-3

Date Collected: 02/03/21 10:30

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.088 | J | 0.10 | 0.026 | mg/L | | | 02/13/21 02:17 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 12:38 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 12:38 | 1 |
| Barium | 0.0079 | J | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 12:38 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 12:38 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 12:38 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:38 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 12:38 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 12:38 | 1 |
| Lithium | 0.0047 | J | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 12:38 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 12:38 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:38 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:38 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:39 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 7.76 | | | | SU | | | 02/03/21 10:30 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-116916-4

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 02/12/21 22:28 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|----------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 12:56 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 12:56 | 1 |
| Barium | 0.015 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 12:56 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 12:56 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 12:56 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:56 | 1 |
| Cobalt | 0.0015 | J | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 12:56 | 1 |
| Lead | 0.00019 | J | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 12:56 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 12:56 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 12:56 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:56 | 1 |
| Thallium | 0.00042 | J | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:56 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:40 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.30 | | | | SU | | | 02/03/21 13:25 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-116916-5

Date Collected: 02/03/21 14:30

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.30 | | 0.10 | 0.026 | mg/L | | | 02/13/21 01:56 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 13:00 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 13:00 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 13:00 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 13:00 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 13:00 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:00 | 1 |
| Cobalt | 0.00025 | J | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:00 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:00 | 1 |
| Lithium | 0.060 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 13:00 | 1 |
| Molybdenum | 0.0013 | J | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 13:00 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:00 | 1 |
| Thallium | 0.00018 | J | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:00 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:41 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.75 | | | | SU | | | 02/03/21 14:30 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-11

Lab Sample ID: 180-116916-6

Date Collected: 02/03/21 14:35

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.027 | J | 0.10 | 0.026 | mg/L | | | 02/11/21 20:13 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 13:04 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 13:04 | 1 |
| Barium | 0.039 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 13:04 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 13:04 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 13:04 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:04 | 1 |
| Cobalt | 0.00072 | J | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:04 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:04 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 13:04 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 13:04 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:04 | 1 |
| Thallium | 0.00016 | J | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:04 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:42 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.21 | | | | SU | | | 02/03/21 14:35 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-116916-7

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.082 | J | 0.10 | 0.026 | mg/L | | | 02/13/21 02:38 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 13:07 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 13:07 | 1 |
| Barium | 0.015 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 13:07 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 13:07 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 13:07 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:07 | 1 |
| Cobalt | 0.00017 | J | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:07 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:07 | 1 |
| Lithium | 0.0075 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 13:07 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 13:07 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:07 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:07 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:43 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.15 | | | | SU | | | 02/03/21 13:25 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-116916-8

Date Collected: 02/03/21 15:45

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.15 | | 0.10 | 0.026 | mg/L | | | 02/12/21 21:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 13:18 | 1 |
| Arsenic | 0.0013 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 13:18 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 13:18 | 1 |
| Beryllium | 0.0025 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 13:18 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 13:18 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:18 | 1 |
| Cobalt | 0.00014 | J | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:18 | 1 |
| Lead | 0.00013 | J | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:18 | 1 |
| Lithium | 0.014 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 13:18 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 13:18 | 1 |
| Selenium | 0.0036 | J | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:18 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:18 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:44 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.08 | | | | SU | | | 02/03/21 15:45 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-15

Lab Sample ID: 180-116916-9

Date Collected: 02/04/21 11:05

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.69 | | 0.10 | 0.026 | mg/L | | | 02/13/21 01:14 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 13:22 | 1 |
| Arsenic | 0.00069 | J | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 13:22 | 1 |
| Barium | 0.028 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 13:22 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 13:22 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 13:22 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:22 | 1 |
| Cobalt | 0.00015 | J | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:22 | 1 |
| Lead | 0.00030 | J | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:22 | 1 |
| Lithium | 0.0086 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 13:22 | 1 |
| Molybdenum | 0.0022 | J | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 13:22 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:22 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:22 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:45 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 7.77 | | | | SU | | | 02/04/21 11:05 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-16

Lab Sample ID: 180-116916-10

Date Collected: 02/04/21 12:30

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.052 | J | 0.10 | 0.026 | mg/L | | | 02/12/21 22:48 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 13:25 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 13:25 | 1 |
| Barium | 0.039 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 13:25 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 13:25 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 13:25 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:25 | 1 |
| Cobalt | 0.00026 | J | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:25 | 1 |
| Lead | 0.00013 | J | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:25 | 1 |
| Lithium | 0.0051 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 13:25 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 13:25 | 1 |
| Selenium | 0.0023 | J | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:25 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:25 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:48 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.42 | | | | SU | | | 02/04/21 12:30 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-17

Lab Sample ID: 180-116916-11

Date Collected: 02/04/21 13:45

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.064 | J | 0.10 | 0.026 | mg/L | | | 02/11/21 19:57 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 13:29 | 1 |
| Arsenic | 0.00035 | J | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 13:29 | 1 |
| Barium | 0.012 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 13:29 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 13:29 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 13:29 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:29 | 1 |
| Cobalt | 0.00042 | J | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:29 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:29 | 1 |
| Lithium | 0.0047 | J | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 13:29 | 1 |
| Molybdenum | 0.0025 | J | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 13:29 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:29 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:29 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:49 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.31 | | | | SU | | | 02/04/21 13:45 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: FB-1

Lab Sample ID: 180-116916-12

Date Collected: 02/04/21 14:15

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.028 | J | 0.10 | 0.026 | mg/L | | | 02/11/21 17:13 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 13:33 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 13:33 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 13:33 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 13:33 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 13:33 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:33 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:33 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:33 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 13:33 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 13:33 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:33 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:33 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:50 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: EB-2

Lab Sample ID: 180-116916-13

Date Collected: 02/04/21 14:30

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 02/11/21 17:30 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 13:36 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 13:36 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 13:36 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 13:36 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 13:36 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:36 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:36 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:36 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 13:36 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 13:36 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:36 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:36 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:51 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-116916-14

Date Collected: 02/04/21 14:12

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.91 | | 0.10 | 0.026 | mg/L | | | 02/13/21 01:35 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | 0.00041 | J | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 13:40 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 13:40 | 1 |
| Barium | 0.0016 | J | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 13:40 | 1 |
| Beryllium | 0.00039 | J | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 13:40 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 13:40 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:40 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:40 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:40 | 1 |
| Lithium | 0.035 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 13:40 | 1 |
| Molybdenum | 0.0030 | J | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 13:40 | 1 |
| Selenium | 0.0030 | J | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:40 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:40 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 06:58 | 02/12/21 10:53 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.22 | | | | SU | | | 02/04/21 14:12 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-10

Lab Sample ID: 180-116916-15

Date Collected: 02/04/21 15:50

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.12 | | 0.10 | 0.026 | mg/L | | | 02/11/21 19:40 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 13:44 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 13:44 | 1 |
| Barium | 0.035 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 13:44 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 13:44 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 13:44 | 1 |
| Chromium | 0.0018 | J | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:44 | 1 |
| Cobalt | 0.00059 | J | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:44 | 1 |
| Lead | 0.00019 | J | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:44 | 1 |
| Lithium | 0.0049 | J | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 13:44 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 13:44 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:44 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:44 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 06:58 | 02/12/21 10:56 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.21 | | | | SU | | | 02/04/21 15:50 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-13

Lab Sample ID: 180-116916-16

Date Collected: 02/04/21 11:15

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.16 | | 0.10 | 0.026 | mg/L | | | 02/13/21 00:12 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 13:47 | 1 |
| Arsenic | 0.00038 | J | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 13:47 | 1 |
| Barium | 0.047 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 13:47 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 13:47 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 13:47 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:47 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:47 | 1 |
| Lead | 0.00038 | J | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:47 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 13:47 | 1 |
| Molybdenum | 0.0012 | J | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 13:47 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:47 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:47 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 06:58 | 02/12/21 10:56 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.34 | | | | SU | | | 02/04/21 11:15 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-116916-17

Date Collected: 02/04/21 12:40

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Fluoride | 0.033 | J | 0.10 | 0.026 | mg/L | | | 02/11/21 18:51 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 13:58 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 13:58 | 1 |
| Barium | 0.029 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 13:58 | 1 |
| Beryllium | 0.00026 | J | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 13:58 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 13:58 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:58 | 1 |
| Cobalt | 0.0041 | | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:58 | 1 |
| Lead | 0.00013 | J | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 13:58 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 13:58 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 13:58 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:58 | 1 |
| Thallium | 0.00021 | J | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 13:58 | 1 |

Method: EPA 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 06:58 | 02/12/21 10:57 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.76 | | | | SU | | | 02/04/21 12:40 | 1 |

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-345752/6
Matrix: Water
Analysis Batch: 345752

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 02/06/21 11:55 | 1 |

Lab Sample ID: LCS 180-345752/5
Matrix: Water
Analysis Batch: 345752

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Fluoride | 2.50 | 2.74 | | mg/L | | 110 | 90 - 110 |

Lab Sample ID: 180-116807-8 MS
Matrix: Water
Analysis Batch: 345752

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Fluoride | <0.026 | | 2.50 | 2.65 | | mg/L | | 106 | 90 - 110 |

Lab Sample ID: 180-116807-8 MSD
Matrix: Water
Analysis Batch: 345752

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Fluoride | <0.026 | | 2.50 | 2.68 | | mg/L | | 107 | 90 - 110 | 1 | 20 |

Lab Sample ID: MB 180-346231/48
Matrix: Water
Analysis Batch: 346231

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 02/11/21 18:35 | 1 |

Lab Sample ID: MB 180-346231/6
Matrix: Water
Analysis Batch: 346231

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 02/11/21 07:29 | 1 |

Lab Sample ID: LCS 180-346231/49
Matrix: Water
Analysis Batch: 346231

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Fluoride | 2.50 | 2.54 | | mg/L | | 101 | 90 - 110 |

Lab Sample ID: LCS 180-346231/5
Matrix: Water
Analysis Batch: 346231

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Fluoride | 2.50 | 2.48 | | mg/L | | 99 | 90 - 110 |

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 180-116916-17 MS
Matrix: Water
Analysis Batch: 346231

Client Sample ID: WGWC-14A
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Fluoride | 0.033 | J | 2.50 | 2.59 | | mg/L | | 102 | 90 - 110 |

Lab Sample ID: 180-116916-17 MSD
Matrix: Water
Analysis Batch: 346231

Client Sample ID: WGWC-14A
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Fluoride | 0.033 | J | 2.50 | 2.65 | | mg/L | | 105 | 90 - 110 | 2 | 20 |

Lab Sample ID: MB 180-346367/6
Matrix: Water
Analysis Batch: 346367

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 02/12/21 08:02 | 1 |

Lab Sample ID: LCS 180-346367/5
Matrix: Water
Analysis Batch: 346367

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Fluoride | 2.50 | 2.53 | | mg/L | | 101 | 90 - 110 |

Lab Sample ID: 180-116916-16 MS
Matrix: Water
Analysis Batch: 346367

Client Sample ID: WGWC-13
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Fluoride | 0.16 | | 2.50 | 2.60 | | mg/L | | 98 | 90 - 110 |

Lab Sample ID: 180-116916-16 MSD
Matrix: Water
Analysis Batch: 346367

Client Sample ID: WGWC-13
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Fluoride | 0.16 | | 2.50 | 2.55 | | mg/L | | 95 | 90 - 110 | 2 | 20 |

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

Lab Sample ID: MB 180-346412/1-A
Matrix: Water
Analysis Batch: 346771

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 346412

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/12/21 11:15 | 02/13/21 11:40 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/12/21 11:15 | 02/13/21 11:40 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 02/12/21 11:15 | 02/13/21 11:40 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/12/21 11:15 | 02/13/21 11:40 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/12/21 11:15 | 02/13/21 11:40 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 11:40 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

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

Lab Sample ID: MB 180-346412/1-A
Matrix: Water
Analysis Batch: 346771

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 346412

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 11:40 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/12/21 11:15 | 02/13/21 11:40 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/12/21 11:15 | 02/13/21 11:40 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/12/21 11:15 | 02/13/21 11:40 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/12/21 11:15 | 02/13/21 11:40 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/12/21 11:15 | 02/13/21 11:40 | 1 |

Lab Sample ID: LCS 180-346412/2-A
Matrix: Water
Analysis Batch: 346771

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 346412

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|-------------|------------|---------------|------|---|------|--------------|
| Antimony | 0.250 | 0.235 | | mg/L | | 94 | 80 - 120 |
| Arsenic | 1.00 | 0.950 | | mg/L | | 95 | 80 - 120 |
| Barium | 1.00 | 0.990 | | mg/L | | 99 | 80 - 120 |
| Beryllium | 0.500 | 0.521 | | mg/L | | 104 | 80 - 120 |
| Cadmium | 0.500 | 0.492 | | mg/L | | 98 | 80 - 120 |
| Chromium | 0.500 | 0.502 | | mg/L | | 100 | 80 - 120 |
| Cobalt | 0.500 | 0.478 | | mg/L | | 96 | 80 - 120 |
| Lead | 0.500 | 0.489 | | mg/L | | 98 | 80 - 120 |
| Lithium | 0.500 | 0.483 | | mg/L | | 97 | 80 - 120 |
| Molybdenum | 0.500 | 0.495 | | mg/L | | 99 | 80 - 120 |
| Selenium | 1.00 | 0.976 | | mg/L | | 98 | 80 - 120 |
| Thallium | 1.00 | 1.01 | | mg/L | | 101 | 80 - 120 |

Lab Sample ID: 180-116807-3 MS
Matrix: Water
Analysis Batch: 346771

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 346412

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Antimony | 0.00062 | J | 0.250 | 0.239 | | mg/L | | 95 | 75 - 125 |
| Arsenic | <0.00031 | | 1.00 | 0.956 | | mg/L | | 96 | 75 - 125 |
| Barium | 0.050 | | 1.00 | 1.05 | | mg/L | | 100 | 75 - 125 |
| Beryllium | <0.00018 | | 0.500 | 0.527 | | mg/L | | 105 | 75 - 125 |
| Cadmium | <0.00022 | | 0.500 | 0.501 | | mg/L | | 100 | 75 - 125 |
| Chromium | <0.0015 | | 0.500 | 0.500 | | mg/L | | 100 | 75 - 125 |
| Cobalt | 0.00082 | J | 0.500 | 0.485 | | mg/L | | 97 | 75 - 125 |
| Lead | 0.00015 | J | 0.500 | 0.496 | | mg/L | | 99 | 75 - 125 |
| Lithium | <0.0034 | | 0.500 | 0.489 | | mg/L | | 98 | 75 - 125 |
| Molybdenum | <0.00061 | | 0.500 | 0.499 | | mg/L | | 100 | 75 - 125 |
| Selenium | <0.0015 | | 1.00 | 0.981 | | mg/L | | 98 | 75 - 125 |
| Thallium | <0.00015 | | 1.00 | 1.03 | | mg/L | | 103 | 75 - 125 |

Lab Sample ID: 180-116807-3 MSD
Matrix: Water
Analysis Batch: 346771

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 346412

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Antimony | 0.00062 | J | 0.250 | 0.238 | | mg/L | | 95 | 75 - 125 | 0 | 20 |

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

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

Lab Sample ID: 180-116807-3 MSD

Matrix: Water

Analysis Batch: 346771

Client Sample ID: WGWA-1

Prep Type: Total Recoverable

Prep Batch: 346412

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | RPD | Limit |
|------------|----------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| Arsenic | <0.00031 | | 1.00 | 0.955 | | mg/L | | 96 | 75 - 125 | 0 | 20 |
| Barium | 0.050 | | 1.00 | 1.06 | | mg/L | | 101 | 75 - 125 | 1 | 20 |
| Beryllium | <0.00018 | | 0.500 | 0.529 | | mg/L | | 106 | 75 - 125 | 1 | 20 |
| Cadmium | <0.00022 | | 0.500 | 0.501 | | mg/L | | 100 | 75 - 125 | 0 | 20 |
| Chromium | <0.0015 | | 0.500 | 0.500 | | mg/L | | 100 | 75 - 125 | 0 | 20 |
| Cobalt | 0.00082 | J | 0.500 | 0.481 | | mg/L | | 96 | 75 - 125 | 1 | 20 |
| Lead | 0.00015 | J | 0.500 | 0.493 | | mg/L | | 99 | 75 - 125 | 1 | 20 |
| Lithium | <0.0034 | | 0.500 | 0.488 | | mg/L | | 98 | 75 - 125 | 0 | 20 |
| Molybdenum | <0.00061 | | 0.500 | 0.496 | | mg/L | | 99 | 75 - 125 | 0 | 20 |
| Selenium | <0.0015 | | 1.00 | 0.974 | | mg/L | | 97 | 75 - 125 | 1 | 20 |
| Thallium | <0.00015 | | 1.00 | 1.03 | | mg/L | | 103 | 75 - 125 | 0 | 20 |

Lab Sample ID: MB 180-346791/1-A

Matrix: Water

Analysis Batch: 347044

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 346791

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 02/17/21 07:39 | 02/18/21 12:17 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 02/17/21 07:39 | 02/18/21 12:17 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 02/17/21 07:39 | 02/18/21 12:17 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 02/17/21 07:39 | 02/18/21 12:17 | 1 |
| Cadmium | <0.00022 | | 0.0025 | 0.00022 | mg/L | | 02/17/21 07:39 | 02/18/21 12:17 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:17 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 12:17 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 02/17/21 07:39 | 02/18/21 12:17 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 02/17/21 07:39 | 02/18/21 12:17 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 02/17/21 07:39 | 02/18/21 12:17 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:17 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 02/17/21 07:39 | 02/18/21 12:17 | 1 |

Lab Sample ID: LCS 180-346791/2-A

Matrix: Water

Analysis Batch: 347044

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 346791

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec. |
|------------|-------------|--------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | Limits |
| Antimony | 0.250 | 0.245 | | mg/L | | 98 | 80 - 120 |
| Arsenic | 1.00 | 0.989 | | mg/L | | 99 | 80 - 120 |
| Barium | 1.00 | 1.05 | | mg/L | | 105 | 80 - 120 |
| Beryllium | 0.500 | 0.494 | | mg/L | | 99 | 80 - 120 |
| Cadmium | 0.500 | 0.519 | | mg/L | | 104 | 80 - 120 |
| Chromium | 0.500 | 0.508 | | mg/L | | 102 | 80 - 120 |
| Cobalt | 0.500 | 0.501 | | mg/L | | 100 | 80 - 120 |
| Lead | 0.500 | 0.508 | | mg/L | | 102 | 80 - 120 |
| Lithium | 0.500 | 0.498 | | mg/L | | 100 | 80 - 120 |
| Molybdenum | 0.500 | 0.515 | | mg/L | | 103 | 80 - 120 |
| Selenium | 1.00 | 1.04 | | mg/L | | 104 | 80 - 120 |
| Thallium | 1.00 | 1.06 | | mg/L | | 106 | 80 - 120 |

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

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

Lab Sample ID: 180-116916-3 MS
Matrix: Water
Analysis Batch: 347044

Client Sample ID: WGWA-6
Prep Type: Total Recoverable
Prep Batch: 346791

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits | %Rec. Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|--------------|
| Antimony | <0.00038 | | 0.250 | 0.245 | | mg/L | | 98 | 75 - 125 | |
| Arsenic | <0.00031 | | 1.00 | 0.964 | | mg/L | | 96 | 75 - 125 | |
| Barium | 0.0079 | J | 1.00 | 1.04 | | mg/L | | 104 | 75 - 125 | |
| Beryllium | <0.00018 | | 0.500 | 0.489 | | mg/L | | 98 | 75 - 125 | |
| Cadmium | <0.00022 | | 0.500 | 0.519 | | mg/L | | 104 | 75 - 125 | |
| Chromium | <0.0015 | | 0.500 | 0.501 | | mg/L | | 100 | 75 - 125 | |
| Cobalt | <0.00013 | | 0.500 | 0.484 | | mg/L | | 97 | 75 - 125 | |
| Lead | <0.00013 | | 0.500 | 0.499 | | mg/L | | 100 | 75 - 125 | |
| Lithium | 0.0047 | J | 0.500 | 0.492 | | mg/L | | 97 | 75 - 125 | |
| Molybdenum | <0.00061 | | 0.500 | 0.504 | | mg/L | | 101 | 75 - 125 | |
| Selenium | <0.0015 | | 1.00 | 1.03 | | mg/L | | 103 | 75 - 125 | |
| Thallium | <0.00015 | | 1.00 | 1.03 | | mg/L | | 103 | 75 - 125 | |

Lab Sample ID: 180-116916-3 MSD
Matrix: Water
Analysis Batch: 347044

Client Sample ID: WGWA-6
Prep Type: Total Recoverable
Prep Batch: 346791

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-----------|
| Antimony | <0.00038 | | 0.250 | 0.242 | | mg/L | | 97 | 75 - 125 | 1 | 20 |
| Arsenic | <0.00031 | | 1.00 | 0.957 | | mg/L | | 96 | 75 - 125 | 1 | 20 |
| Barium | 0.0079 | J | 1.00 | 1.03 | | mg/L | | 103 | 75 - 125 | 1 | 20 |
| Beryllium | <0.00018 | | 0.500 | 0.472 | | mg/L | | 94 | 75 - 125 | 4 | 20 |
| Cadmium | <0.00022 | | 0.500 | 0.512 | | mg/L | | 102 | 75 - 125 | 1 | 20 |
| Chromium | <0.0015 | | 0.500 | 0.501 | | mg/L | | 100 | 75 - 125 | 0 | 20 |
| Cobalt | <0.00013 | | 0.500 | 0.482 | | mg/L | | 96 | 75 - 125 | 0 | 20 |
| Lead | <0.00013 | | 0.500 | 0.494 | | mg/L | | 99 | 75 - 125 | 1 | 20 |
| Lithium | 0.0047 | J | 0.500 | 0.480 | | mg/L | | 95 | 75 - 125 | 2 | 20 |
| Molybdenum | <0.00061 | | 0.500 | 0.500 | | mg/L | | 100 | 75 - 125 | 1 | 20 |
| Selenium | <0.0015 | | 1.00 | 1.01 | | mg/L | | 101 | 75 - 125 | 2 | 20 |
| Thallium | <0.00015 | | 1.00 | 1.02 | | mg/L | | 102 | 75 - 125 | 1 | 20 |

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-345897/1-A
Matrix: Water
Analysis Batch: 346160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 345897

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/09/21 06:53 | 02/10/21 11:43 | 1 |

Lab Sample ID: LCS 180-345897/2-A
Matrix: Water
Analysis Batch: 346160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 345897

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|----------|--------------|
| Mercury | 2.50 | 2.57 | | ug/L | | 103 | 80 - 120 | |

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

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

Lab Sample ID: 180-116807-1 MS
Matrix: Water
Analysis Batch: 346160

Client Sample ID: Dup-1
Prep Type: Total/NA
Prep Batch: 345897
 %Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Mercury | <0.13 | | 1.00 | 1.01 | | ug/L | | 101 | 75 - 125 |

Lab Sample ID: 180-116807-1 MSD
Matrix: Water
Analysis Batch: 346160

Client Sample ID: Dup-1
Prep Type: Total/NA
Prep Batch: 345897
 %Rec. RPD

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-------|
| Mercury | <0.13 | | 1.00 | 1.02 | | ug/L | | 102 | 75 - 125 | 0 | 20 |

Lab Sample ID: MB 180-346076/1-A
Matrix: Water
Analysis Batch: 346421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 346076

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 06:58 | 02/12/21 10:38 | 1 |

Lab Sample ID: LCS 180-346076/2-A
Matrix: Water
Analysis Batch: 346421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 346076
 %Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------|-------------|------------|---------------|------|---|------|----------|
| Mercury | 2.50 | 2.55 | | ug/L | | 102 | 80 - 120 |

Lab Sample ID: MB 180-346077/1-A
Matrix: Water
Analysis Batch: 347002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 346077

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Mercury | <0.13 | | 0.20 | 0.13 | ug/L | | 02/10/21 07:00 | 02/18/21 11:31 | 1 |

Lab Sample ID: LCS 180-346077/2-A
Matrix: Water
Analysis Batch: 347002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 346077
 %Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------|-------------|------------|---------------|------|---|------|----------|
| Mercury | 2.50 | 2.50 | | ug/L | | 100 | 80 - 120 |

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

HPLC/IC

Analysis Batch: 345752

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 180-116807-1 | Dup-1 | Total/NA | Water | 300.0 | |
| 180-116807-2 | EB-1 | Total/NA | Water | 300.0 | |
| 180-116807-3 | WGWA-1 | Total/NA | Water | 300.0 | |
| 180-116807-4 | WGWA-2 | Total/NA | Water | 300.0 | |
| 180-116807-5 | WGWA-18 | Total/NA | Water | 300.0 | |
| 180-116807-6 | WGWA-3 | Total/NA | Water | 300.0 | |
| 180-116807-7 | WGWA-4 | Total/NA | Water | 300.0 | |
| 180-116807-8 | WGWA-7 | Total/NA | Water | 300.0 | |
| MB 180-345752/6 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 180-345752/5 | Lab Control Sample | Total/NA | Water | 300.0 | |
| 180-116807-8 MS | WGWA-7 | Total/NA | Water | 300.0 | |
| 180-116807-8 MSD | WGWA-7 | Total/NA | Water | 300.0 | |

Analysis Batch: 346231

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 180-116916-2 | FB-2 | Total/NA | Water | 300.0 | |
| 180-116916-6 | WGWC-11 | Total/NA | Water | 300.0 | |
| 180-116916-11 | WGWC-17 | Total/NA | Water | 300.0 | |
| 180-116916-12 | FB-1 | Total/NA | Water | 300.0 | |
| 180-116916-13 | EB-2 | Total/NA | Water | 300.0 | |
| 180-116916-15 | WGWC-10 | Total/NA | Water | 300.0 | |
| 180-116916-17 | WGWC-14A | Total/NA | Water | 300.0 | |
| MB 180-346231/48 | Method Blank | Total/NA | Water | 300.0 | |
| MB 180-346231/6 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 180-346231/49 | Lab Control Sample | Total/NA | Water | 300.0 | |
| LCS 180-346231/5 | Lab Control Sample | Total/NA | Water | 300.0 | |
| 180-116916-17 MS | WGWC-14A | Total/NA | Water | 300.0 | |
| 180-116916-17 MSD | WGWC-14A | Total/NA | Water | 300.0 | |

Analysis Batch: 346367

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 180-116916-1 | Dup-2 | Total/NA | Water | 300.0 | |
| 180-116916-3 | WGWA-6 | Total/NA | Water | 300.0 | |
| 180-116916-4 | WGWA-5 | Total/NA | Water | 300.0 | |
| 180-116916-5 | WGWC-19 | Total/NA | Water | 300.0 | |
| 180-116916-7 | WGWC-12 | Total/NA | Water | 300.0 | |
| 180-116916-8 | WGWC-8 | Total/NA | Water | 300.0 | |
| 180-116916-9 | WGWC-15 | Total/NA | Water | 300.0 | |
| 180-116916-10 | WGWC-16 | Total/NA | Water | 300.0 | |
| 180-116916-14 | WGWC-9 | Total/NA | Water | 300.0 | |
| 180-116916-16 | WGWC-13 | Total/NA | Water | 300.0 | |
| MB 180-346367/6 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 180-346367/5 | Lab Control Sample | Total/NA | Water | 300.0 | |
| 180-116916-16 MS | WGWC-13 | Total/NA | Water | 300.0 | |
| 180-116916-16 MSD | WGWC-13 | Total/NA | Water | 300.0 | |

Metals

Prep Batch: 345897

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 180-116807-1 | Dup-1 | Total/NA | Water | 7470A | |

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Metals (Continued)

Prep Batch: 345897 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-116807-2 | EB-1 | Total/NA | Water | 7470A | |
| 180-116807-3 | WGWA-1 | Total/NA | Water | 7470A | |
| 180-116807-4 | WGWA-2 | Total/NA | Water | 7470A | |
| 180-116807-5 | WGWA-18 | Total/NA | Water | 7470A | |
| 180-116807-6 | WGWA-3 | Total/NA | Water | 7470A | |
| 180-116807-7 | WGWA-4 | Total/NA | Water | 7470A | |
| 180-116807-8 | WGWA-7 | Total/NA | Water | 7470A | |
| MB 180-345897/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 180-345897/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 180-116807-1 MS | Dup-1 | Total/NA | Water | 7470A | |
| 180-116807-1 MSD | Dup-1 | Total/NA | Water | 7470A | |

Prep Batch: 346076

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-116916-14 | WGWC-9 | Total/NA | Water | 7470A | |
| 180-116916-15 | WGWC-10 | Total/NA | Water | 7470A | |
| 180-116916-16 | WGWC-13 | Total/NA | Water | 7470A | |
| 180-116916-17 | WGWC-14A | Total/NA | Water | 7470A | |
| MB 180-346076/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 180-346076/2-A | Lab Control Sample | Total/NA | Water | 7470A | |

Prep Batch: 346077

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-116916-1 | Dup-2 | Total/NA | Water | 7470A | |
| 180-116916-2 | FB-2 | Total/NA | Water | 7470A | |
| 180-116916-3 | WGWA-6 | Total/NA | Water | 7470A | |
| 180-116916-4 | WGWA-5 | Total/NA | Water | 7470A | |
| 180-116916-5 | WGWC-19 | Total/NA | Water | 7470A | |
| 180-116916-6 | WGWC-11 | Total/NA | Water | 7470A | |
| 180-116916-7 | WGWC-12 | Total/NA | Water | 7470A | |
| 180-116916-8 | WGWC-8 | Total/NA | Water | 7470A | |
| 180-116916-9 | WGWC-15 | Total/NA | Water | 7470A | |
| 180-116916-10 | WGWC-16 | Total/NA | Water | 7470A | |
| 180-116916-11 | WGWC-17 | Total/NA | Water | 7470A | |
| 180-116916-12 | FB-1 | Total/NA | Water | 7470A | |
| 180-116916-13 | EB-2 | Total/NA | Water | 7470A | |
| MB 180-346077/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 180-346077/2-A | Lab Control Sample | Total/NA | Water | 7470A | |

Analysis Batch: 346160

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 180-116807-1 | Dup-1 | Total/NA | Water | EPA 7470A | 345897 |
| 180-116807-2 | EB-1 | Total/NA | Water | EPA 7470A | 345897 |
| 180-116807-3 | WGWA-1 | Total/NA | Water | EPA 7470A | 345897 |
| 180-116807-4 | WGWA-2 | Total/NA | Water | EPA 7470A | 345897 |
| 180-116807-5 | WGWA-18 | Total/NA | Water | EPA 7470A | 345897 |
| 180-116807-6 | WGWA-3 | Total/NA | Water | EPA 7470A | 345897 |
| 180-116807-7 | WGWA-4 | Total/NA | Water | EPA 7470A | 345897 |
| 180-116807-8 | WGWA-7 | Total/NA | Water | EPA 7470A | 345897 |
| MB 180-345897/1-A | Method Blank | Total/NA | Water | EPA 7470A | 345897 |
| LCS 180-345897/2-A | Lab Control Sample | Total/NA | Water | EPA 7470A | 345897 |

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Metals (Continued)

Analysis Batch: 346160 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|-----------|------------|
| 180-116807-1 MS | Dup-1 | Total/NA | Water | EPA 7470A | 345897 |
| 180-116807-1 MSD | Dup-1 | Total/NA | Water | EPA 7470A | 345897 |

Prep Batch: 346412

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-116807-1 | Dup-1 | Total Recoverable | Water | 3005A | |
| 180-116807-2 | EB-1 | Total Recoverable | Water | 3005A | |
| 180-116807-3 | WGWA-1 | Total Recoverable | Water | 3005A | |
| 180-116807-4 | WGWA-2 | Total Recoverable | Water | 3005A | |
| 180-116807-5 | WGWA-18 | Total Recoverable | Water | 3005A | |
| 180-116807-6 | WGWA-3 | Total Recoverable | Water | 3005A | |
| 180-116807-7 | WGWA-4 | Total Recoverable | Water | 3005A | |
| 180-116807-8 | WGWA-7 | Total Recoverable | Water | 3005A | |
| MB 180-346412/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 180-346412/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 180-116807-3 MS | WGWA-1 | Total Recoverable | Water | 3005A | |
| 180-116807-3 MSD | WGWA-1 | Total Recoverable | Water | 3005A | |

Analysis Batch: 346421

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 180-116916-14 | WGWC-9 | Total/NA | Water | EPA 7470A | 346076 |
| 180-116916-15 | WGWC-10 | Total/NA | Water | EPA 7470A | 346076 |
| 180-116916-16 | WGWC-13 | Total/NA | Water | EPA 7470A | 346076 |
| 180-116916-17 | WGWC-14A | Total/NA | Water | EPA 7470A | 346076 |
| MB 180-346076/1-A | Method Blank | Total/NA | Water | EPA 7470A | 346076 |
| LCS 180-346076/2-A | Lab Control Sample | Total/NA | Water | EPA 7470A | 346076 |

Analysis Batch: 346771

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|-----------|------------|
| 180-116807-1 | Dup-1 | Total Recoverable | Water | EPA 6020B | 346412 |
| 180-116807-2 | EB-1 | Total Recoverable | Water | EPA 6020B | 346412 |
| 180-116807-3 | WGWA-1 | Total Recoverable | Water | EPA 6020B | 346412 |
| 180-116807-4 | WGWA-2 | Total Recoverable | Water | EPA 6020B | 346412 |
| 180-116807-5 | WGWA-18 | Total Recoverable | Water | EPA 6020B | 346412 |
| 180-116807-6 | WGWA-3 | Total Recoverable | Water | EPA 6020B | 346412 |
| 180-116807-7 | WGWA-4 | Total Recoverable | Water | EPA 6020B | 346412 |
| 180-116807-8 | WGWA-7 | Total Recoverable | Water | EPA 6020B | 346412 |
| MB 180-346412/1-A | Method Blank | Total Recoverable | Water | EPA 6020B | 346412 |
| LCS 180-346412/2-A | Lab Control Sample | Total Recoverable | Water | EPA 6020B | 346412 |
| 180-116807-3 MS | WGWA-1 | Total Recoverable | Water | EPA 6020B | 346412 |
| 180-116807-3 MSD | WGWA-1 | Total Recoverable | Water | EPA 6020B | 346412 |

Prep Batch: 346791

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 180-116916-1 | Dup-2 | Total Recoverable | Water | 3005A | |
| 180-116916-2 | FB-2 | Total Recoverable | Water | 3005A | |
| 180-116916-3 | WGWA-6 | Total Recoverable | Water | 3005A | |
| 180-116916-4 | WGWA-5 | Total Recoverable | Water | 3005A | |
| 180-116916-5 | WGWC-19 | Total Recoverable | Water | 3005A | |
| 180-116916-6 | WGWC-11 | Total Recoverable | Water | 3005A | |
| 180-116916-7 | WGWC-12 | Total Recoverable | Water | 3005A | |

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Metals (Continued)

Prep Batch: 346791 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-116916-8 | WGWC-8 | Total Recoverable | Water | 3005A | |
| 180-116916-9 | WGWC-15 | Total Recoverable | Water | 3005A | |
| 180-116916-10 | WGWC-16 | Total Recoverable | Water | 3005A | |
| 180-116916-11 | WGWC-17 | Total Recoverable | Water | 3005A | |
| 180-116916-12 | FB-1 | Total Recoverable | Water | 3005A | |
| 180-116916-13 | EB-2 | Total Recoverable | Water | 3005A | |
| 180-116916-14 | WGWC-9 | Total Recoverable | Water | 3005A | |
| 180-116916-15 | WGWC-10 | Total Recoverable | Water | 3005A | |
| 180-116916-16 | WGWC-13 | Total Recoverable | Water | 3005A | |
| 180-116916-17 | WGWC-14A | Total Recoverable | Water | 3005A | |
| MB 180-346791/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 180-346791/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 180-116916-3 MS | WGWA-6 | Total Recoverable | Water | 3005A | |
| 180-116916-3 MSD | WGWA-6 | Total Recoverable | Water | 3005A | |

Analysis Batch: 347002

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 180-116916-1 | Dup-2 | Total/NA | Water | EPA 7470A | 346077 |
| 180-116916-2 | FB-2 | Total/NA | Water | EPA 7470A | 346077 |
| 180-116916-3 | WGWA-6 | Total/NA | Water | EPA 7470A | 346077 |
| 180-116916-4 | WGWA-5 | Total/NA | Water | EPA 7470A | 346077 |
| 180-116916-5 | WGWC-19 | Total/NA | Water | EPA 7470A | 346077 |
| 180-116916-6 | WGWC-11 | Total/NA | Water | EPA 7470A | 346077 |
| 180-116916-7 | WGWC-12 | Total/NA | Water | EPA 7470A | 346077 |
| 180-116916-8 | WGWC-8 | Total/NA | Water | EPA 7470A | 346077 |
| 180-116916-9 | WGWC-15 | Total/NA | Water | EPA 7470A | 346077 |
| 180-116916-10 | WGWC-16 | Total/NA | Water | EPA 7470A | 346077 |
| 180-116916-11 | WGWC-17 | Total/NA | Water | EPA 7470A | 346077 |
| 180-116916-12 | FB-1 | Total/NA | Water | EPA 7470A | 346077 |
| 180-116916-13 | EB-2 | Total/NA | Water | EPA 7470A | 346077 |
| MB 180-346077/1-A | Method Blank | Total/NA | Water | EPA 7470A | 346077 |
| LCS 180-346077/2-A | Lab Control Sample | Total/NA | Water | EPA 7470A | 346077 |

Analysis Batch: 347044

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|-----------|------------|
| 180-116916-1 | Dup-2 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-2 | FB-2 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-3 | WGWA-6 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-4 | WGWA-5 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-5 | WGWC-19 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-6 | WGWC-11 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-7 | WGWC-12 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-8 | WGWC-8 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-9 | WGWC-15 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-10 | WGWC-16 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-11 | WGWC-17 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-12 | FB-1 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-13 | EB-2 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-14 | WGWC-9 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-15 | WGWC-10 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-16 | WGWC-13 | Total Recoverable | Water | EPA 6020B | 346791 |

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-1

Metals (Continued)

Analysis Batch: 347044 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|-----------|------------|
| 180-116916-17 | WGWC-14A | Total Recoverable | Water | EPA 6020B | 346791 |
| MB 180-346791/1-A | Method Blank | Total Recoverable | Water | EPA 6020B | 346791 |
| LCS 180-346791/2-A | Lab Control Sample | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-3 MS | WGWA-6 | Total Recoverable | Water | EPA 6020B | 346791 |
| 180-116916-3 MSD | WGWA-6 | Total Recoverable | Water | EPA 6020B | 346791 |

Field Service / Mobile Lab

Analysis Batch: 346556

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 180-116807-3 | WGWA-1 | Total/NA | Water | Field Sampling | |
| 180-116807-4 | WGWA-2 | Total/NA | Water | Field Sampling | |
| 180-116807-5 | WGWA-18 | Total/NA | Water | Field Sampling | |
| 180-116807-6 | WGWA-3 | Total/NA | Water | Field Sampling | |
| 180-116807-7 | WGWA-4 | Total/NA | Water | Field Sampling | |
| 180-116807-8 | WGWA-7 | Total/NA | Water | Field Sampling | |
| 180-116916-3 | WGWA-6 | Total/NA | Water | Field Sampling | |
| 180-116916-4 | WGWA-5 | Total/NA | Water | Field Sampling | |
| 180-116916-5 | WGWC-19 | Total/NA | Water | Field Sampling | |
| 180-116916-6 | WGWC-11 | Total/NA | Water | Field Sampling | |
| 180-116916-7 | WGWC-12 | Total/NA | Water | Field Sampling | |
| 180-116916-8 | WGWC-8 | Total/NA | Water | Field Sampling | |
| 180-116916-9 | WGWC-15 | Total/NA | Water | Field Sampling | |
| 180-116916-10 | WGWC-16 | Total/NA | Water | Field Sampling | |
| 180-116916-11 | WGWC-17 | Total/NA | Water | Field Sampling | |
| 180-116916-14 | WGWC-9 | Total/NA | Water | Field Sampling | |
| 180-116916-15 | WGWC-10 | Total/NA | Water | Field Sampling | |
| 180-116916-16 | WGWC-13 | Total/NA | Water | Field Sampling | |
| 180-116916-17 | WGWC-14A | Total/NA | Water | Field Sampling | |

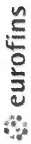
Chain of Custody Record



| | | | | | | | |
|---|--------|---|---|--|---|--|----------|
| Client Information Client Contact: SCS Contacts Company: GA Power Address: 241 Ralph McGill Blvd SE City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: SCS Contacts Project Name: CCR - Plant Wansley Ash Pond Site: | | Sampler: <i>O. Figueroa, H. Auld</i> Lab PM: Brown, Shali Phone: 770-594-5998 E-Mail: shali.brown@eurofins.com | | Carrier Tracking No(s): AIC to A+1 | | COC No: Page: 1 of Job #: | |
| Due Date Requested: TAT Requested (days): PO #: SCS-10382606 WO #: | | Analysis Requested: App. IV Metals (Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl) Fluoride (EPA 300.0) Radium 226 & 228 (SW-846 9315/9320) | | Preservation Codes: *hexane Jne sNaO2 a2O4S a2SO3 2SO4 3P Dodecahydrate acetone JCAA W - pH 4-5 Z - other (specify) | | Special Instructions/Note: App 4 Scan Event | |
| Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air) | | Field Filtered Sample (Yes or No) Particulate Matter (Yes or No) | | Total Number of containers | | Special Instructions/Note: App 4 Scan Event | |
| DUP-1 | 2-2-21 | - | G | Water | N | N | pH= NA |
| EB-1 | 2-2-21 | 1445 | G | Water | N | N | pH= NA |
| NGWA-1 | 2-2-21 | 1115 | G | Water | N | N | pH= 5.36 |
| NGWA-2 | 2-2-21 | 1220 | G | Water | N | N | pH= 6.10 |
| NGWA-18 | 2-2-21 | 1450 | G | Water | N | N | pH= 6.48 |
| NGWA-3 | 2-2-21 | 1145 | G | Water | N | N | pH= 5.78 |
| NGWA-4 | 2-2-21 | 1250 | G | Water | N | N | pH= 6.61 |
| NGWA-7 | 2-2-21 | 1410 | G | Water | N | N | pH= 5.84 |
| | | | G | Water | | | pH= |
| | | | G | Water | | | pH= |
| | | | G | Water | | | pH= |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | |
| Special Instructions/QC Requirements: | | | | | | | |
| Relinquished by: <i>[Signature]</i> Date/Time: 2/3/21 13:34 Company: ACE | | Relinquished by: <i>[Signature]</i> Date/Time: 2/3/21 16:00 Company: EPA | | Relinquished by: <i>[Signature]</i> Date/Time: 2/3/21 13:34 Company: EPA | | Relinquished by: <i>[Signature]</i> Date/Time: 2/3/21 13:34 Company: EPA | |
| Custody Seals Intact: Δ Yes Δ No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | Ver: 01/16/2019 | |



Chain of Custody Record



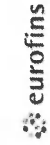
1 & 2

| | | | | | | |
|---|---------------|--|-------------|--|--|-----------------------------------|
| Client Information | | Sampler: <i>O. FUQUEA, H. AVID</i> | | Lab PM: <i>Brown, Shali</i> | Carrier Tracking No(s): | COC No.: |
| Client Contact: <i>GA Power</i> | | Phone: <i>(770) 594-5948</i> | | E-Mail: <i>shali.brown@euofinset.com</i> | Page: | |
| Company: <i>GA Power</i> | | Address: <i>241 Ralph McGill Blvd SE</i> | | Job #: | | |
| City: <i>Atlanta</i> | | State, Zip: <i>GA, 30308</i> | | Preservation Codes: M - Hexane A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - ... SO3 203 204 Iodidehydrate ine A -5 (specify) | | |
| Phone: <i>404-506-7116(Tel)</i> | | PO #: <i>SCS10382606</i> | | Barcode: 180-116916 Chain of Custody | | |
| Email: <i>SCS Contacts</i> | | WO #: | | Analysis Requested | | |
| Project Name: <i>CCR - Plant Wansley Ash Pond</i> | | Project #: <i>18019922</i> | | App. IV Metals (Sb,As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) | | |
| Site: <i>Site</i> | | SSOW#: | | Field Filtered Sample (Yes or No) | | |
| Due Date Requested: | | TAT Requested (days): | | Perform MSMSD (Yes or No) | | |
| Sample Identification | | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air) | Field Filtered Sample (Yes or No) |
| <i>DUP-2</i> | <i>2-4-21</i> | <i>1320</i> | <i>G</i> | <i>Water</i> | <input checked="" type="checkbox"/> | |
| <i>FIED of 2-4-21 FB-2</i> | <i>2-4-21</i> | <i>1030</i> | <i>G</i> | <i>Water</i> | <input checked="" type="checkbox"/> | |
| <i>WGWA-6</i> | <i>2-3-21</i> | <i>1325</i> | <i>G</i> | <i>Water</i> | <input checked="" type="checkbox"/> | |
| <i>WGWA-5</i> | <i>2-3-21</i> | <i>1430</i> | <i>G</i> | <i>Water</i> | <input checked="" type="checkbox"/> | |
| <i>WGWC-19</i> | <i>2-3-21</i> | <i>1435</i> | <i>G</i> | <i>Water</i> | <input checked="" type="checkbox"/> | |
| <i>WGWC-11</i> | <i>2-3-21</i> | <i>1325</i> | <i>G</i> | <i>Water</i> | <input checked="" type="checkbox"/> | |
| <i>WGWC-12</i> | <i>2-3-21</i> | <i>1545</i> | <i>G</i> | <i>Water</i> | <input checked="" type="checkbox"/> | |
| <i>WGWC-8</i> | <i>2-4-21</i> | <i>1105</i> | <i>G</i> | <i>Water</i> | <input checked="" type="checkbox"/> | |
| <i>WGWC-15</i> | <i>2-4-21</i> | <i>1230</i> | <i>G</i> | <i>Water</i> | <input checked="" type="checkbox"/> | |
| <i>WGWC-16</i> | <i>2-4-21</i> | <i>1345</i> | <i>G</i> | <i>Water</i> | <input checked="" type="checkbox"/> | |
| <i>WGWC-17</i> | | | | | | |
| Special Instructions/Note: App 4 Scan Event Total Number of: 4 pH= 4 pH= 4 pH= 7.76 4 pH= 5.30 4 pH= 6.75 4 pH= 5.21 4 pH= 6.15 4 pH= 5.08 4 pH= 7.77 4 pH= 5.42 4 pH= 6.31 | | | | | | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input checked="" type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: | | | | | | |
| Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date/Time: <i>2/5/21 10:20</i> Company: <i>AEC</i> Relinquished by: _____ Date/Time: <i>2-6-21</i> Company: <i>ETAPTU</i> Relinquished by: _____ Date/Time: <i>10:00</i> Company: | | | | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: | | | | | | |

244-ATLANTA



Chain of Custody Record



2 of 2

| | | | | | |
|---|---------------|--|--|-------------------------|----------|
| Client Information | | Sampler: <u>O. F. Quica, H. Auld</u> | Lab PM: <u>Brown, Shali</u> | Carrier Tracking No(s): | COC No.: |
| Client Contact: SCS Contacts | | Phone: <u>(770) 594-5998</u> | E-Mail: <u>shali.brown@eurolfinset.com</u> | | Page: |
| Company: GA Power | | | | | Job #: |
| Address: 241 Ralph McGill Blvd SE | | Analysis Requested App. IV Metals (Sb,As,Ba,Be,Cd,Cr,Co,Pb,LI,Hg,Mo,Se,Tl) Fluoride (EPA 300.0) Radium 226 & 228 (SW-846 9315/9320) Periodic MS/MSD (Yes or No) Field Filtered Sample (Yes or No) | | | |
| City: Atlanta | | | | | |
| State, Zip: GA, 30308 | | | | | |
| Phone: 404-506-7116 (Tel) | | | | | |
| Email: SCS Contacts | | | | | |
| Project Name: CCR - Plant Wansley Ash Pond | | Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 18019922 SSOW#: | | | |
| Site: | | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: | | | |
| Sample Identification | | Special Instructions/Note: Full App 4 Scan Event | | | |
| <u>FB-1</u> | <u>2-4-21</u> | <u>1415</u> | <u>G</u> | <u>Water</u> | <u>4</u> |
| <u>FB-2</u> | <u>2-4-21</u> | <u>1430</u> | <u>G</u> | <u>Water</u> | <u>4</u> |
| <u>WGWC-9</u> | <u>2-4-21</u> | <u>1412</u> | <u>G</u> | <u>Water</u> | <u>4</u> |
| <u>WGWC-10</u> | <u>2-4-21</u> | <u>1550</u> | <u>G</u> | <u>Water</u> | <u>4</u> |
| <u>WGWC-13</u> | <u>2-4-21</u> | <u>1115</u> | <u>G</u> | <u>Water</u> | <u>4</u> |
| <u>WGWC-14A</u> | <u>2-4-21</u> | <u>1240</u> | <u>G</u> | <u>Water</u> | <u>6</u> |
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| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input checked="" type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | Special Instructions/QC Requirements: | | | |
| Empty Kit Relinquished by: | | Time: | | | |
| Relinquished by: <u>[Signature]</u> | | Date: <u>2/5/21 10:20</u> | | | |
| Relinquished by: <u>[Signature]</u> | | Date: <u>2/5/21 10:20</u> | | | |
| Relinquished by: <u>[Signature]</u> | | Date: <u>2-6-21</u> | | | |
| Custody Seals Intact: <u>[Signature]</u> | | Date/Time: <u>1000</u> | | | |
| Custody Seal No.: <u>[Signature]</u> | | Cooler Temperature(s) °C and Other Remarks: | | | |





eurofins

RT 97
FZ
1 16:30
A 9371 02.04

Part # 199469-434 RT2 EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

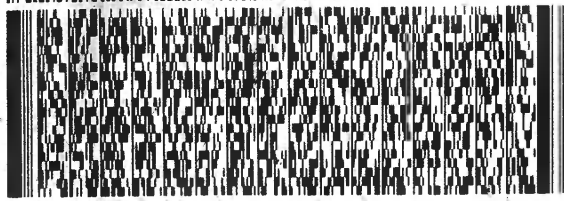
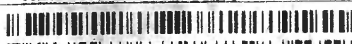
SHIP DATE: 03FEB21
ACTWGT: 59.85 LB
CAD: 859116/CAFE3406

BILL RECIPIENT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068

REF: ACC - WANSLEY



FedEx Express



1 of 2

TRK# 1516 9327 9371

MASTER

THU - 04 FEB 4:30P
STANDARD OVERNIGHT

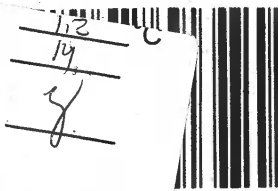
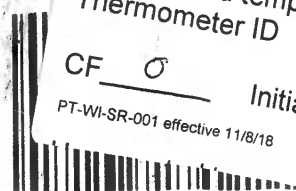
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15238
PA-US PIT

Uncorrected temp
Thermometer ID

CF 0 Initials

PT-WI-SR-001 effective 11/8/18



58M1/B69R/0566



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ca.

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 03FEB21
ACTWGT: 59.85 LB
CAD: 859116/CAFE3406

BILL RECEIPT

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 863-7068

REF: ACC - WANSLEY



FedEx
Express



AD109019110601

2 of 2
MPS# 1516 9327 9382
0263
Mstr# 1516 9327 9371

THU - 04 FEB 4:30P
STANDARD OVERNIGHT

0201

NA AGCA

15238
PA-US
PIT

Uncorrectea temp
Thermometer ID

2.6

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g

PT-WI-SR-001 effective 11/8/18



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SDR



ORIGIN ID: L1YA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

SHIP DATE: 05FEB21
 ACTWGT: 66.70 LB
 CAD: 859116/CAFE3406

BILL RECIPIENT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238



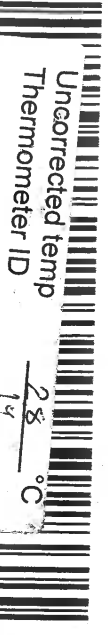
180-116916 Waybill



420109116110601

4 of 4
 MPS# 1516 9328 0066
 0269
 Mstr# 1516 9328 0033

SATURDAY 12:00P
 PRIORITY OVERNIGHT
 15238
 PA-US PIT



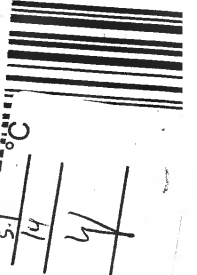
Uncorrected temp
 Thermometer ID

CF Initials

PT-WI-SR-001 effective 11/8/18

SATURDAY 12:00P
PRIORITY OVERNIGHT

15238
 PA-US PIT



Uncorrected temp
 Thermometer ID

CF Initials

PT-WI-SR-001 effective 11/8/18

1 of 4
 TRK# 1516 9328 0033
 ## MASTER ##

XO AGCA



(412) 963-7066
 REF: ACCC - WANSLEY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

ORIGIN ID: L1YA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

BILL RECIPIENT

Environment Testing
 TestAmerica



atl # 159469-434 RIT2 EXP 11/21



Environment Testing
TestAmerica

RT 639

Part # 159469-434 RIT2 EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES

SHIP DATE: 05FEB21
ACTWGT: 66.70 LB
CAD: 859116/CAFE3406
BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACCC - WANSLEY

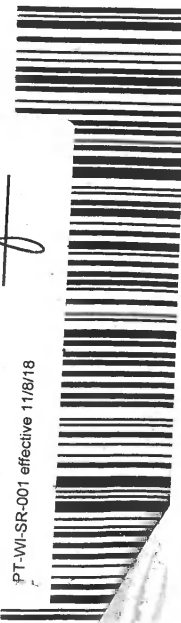


2 of 4
MPS# 1516 9328 0044
0263
Mstr# 1516 9328 0033 [0201]

SATURDAY 12:00P
PRIORITY OVERNIGHT

XI Uncorrected temp 2.5
Thermometer ID 14 15238
PA-US PIT

CF 0 Initials Y
PT-WI-SR-001 effective 11/6/18

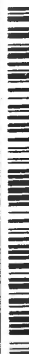


Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES

SHIP DATE: 05FEB21
ACTWGT: 66.70 LB
CAD: 859116/CAFE3406
BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACCC - WANSLEY

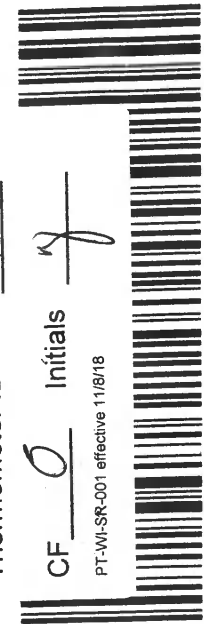


3 of 4
MPS# 1516 9328 0055
0263
Mstr# 1516 9328 0033 [0201]

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGGA Uncorrected temp 2.1
Thermometer ID 14 15238
PA-US PIT

CF 0 Initials Y
PT-WI-SR-001 effective 11/6/18



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- 13

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-116807-1

Login Number: 116807

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-116807-1

Login Number: 116916

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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

ANALYTICAL REPORT

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

Laboratory Job ID: 180-116807-2

Client Project/Site: CCR - Plant Wansley Ash Pond

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
3/8/2021 6:58:06 AM

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

LINKS

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

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

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Job ID: 180-116807-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-116807-2

Comments

No additional comments.

Receipt

The samples were received on 2/4/2021 9:30 AM and 2/6/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.2° C, 2.1° C, 2.5° C, 2.6° C, 2.8° C and 3.1° C.

Receipt Exceptions

The container labels for the two plastic liters for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWC-12 (180-116916-7). The container labels list a sample collection date of 2/2/21, while the COC lists 2/3/21. The date on the COC was used.

The container label for one out of two of the plastic liters for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWC-17 (180-116916-11). The container labels list a sample collection date of 3/2/21 while the COC lists 2/4/21. The date on the COC was used.

RAD

Methods 903.0, 9315: Radium-226 prep batch 160-498078:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Dup-1 (180-116807-1), EB-1 (180-116807-2), WGWA-1 (180-116807-3), WGWA-2 (180-116807-4), WGWA-18 (180-116807-5), WGWA-3 (180-116807-6), WGWA-4 (180-116807-7), WGWA-7 (180-116807-8), (LCS 160-498078/1-A), (MB 160-498078/22-A) and (160-41173-M-1-A)

Methods 903.0, 9315: Radium-226 batch 498288

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Dup-2 (180-116916-1), FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWA-5 (180-116916-4), WGWC-19 (180-116916-5), WGWC-11 (180-116916-6), WGWC-12 (180-116916-7), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10), WGWC-17 (180-116916-11), FB-1 (180-116916-12), EB-2 (180-116916-13), WGWC-9 (180-116916-14), WGWC-10 (180-116916-15), WGWC-13 (180-116916-16), WGWC-14A (180-116916-17), (LCS 160-498288/1-A), (LCSD 160-498288/2-A) and (MB 160-498288/23-A)

Methods 904.0, 9320: 904/9320 Prep Batch: 160-498366

The LCS recovered at (132%) for Ra228. The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (61-138) per method requirements. Although there is a qualifier, the LCS passes. No further action is required (LCSD 160-498366/2-A)

Methods 904.0, 9320: 904/9320 Prep Batch 160-498366

The Ra228 laboratory control sample(LCS) recovery (168%) associated with the following sample(s) is outside the upper QC limit of (61-138) indicating a potential positive bias for that analyte. This analyte was not observed above the RL in the associated samples; therefore the sample data is not adversely affected by this excursion. The data have been reported with this narrative. (LCS 160-498366/1-A)

Methods 904.0, 9320: 904/9320 Prep batch 498366

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

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Job ID: 180-116807-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

applied as the Activity Reference Date. Dup-2 (180-116916-1), WGWC-19 (180-116916-5), WGWC-11 (180-116916-6), WGWC-12 (180-116916-7), WGWC-17 (180-116916-11), FB-1 (180-116916-12), EB-2 (180-116916-13), WGWC-10 (180-116916-15), WGWC-13 (180-116916-16), WGWC-14A (180-116916-17), (LCS 160-498366/1-A), (LCSD 160-498366/2-A) and (MB 160-498366/23-A)

Methods 904.0, 9320: Ra228 Prep Batch 160-498080

The Ra228 laboratory control sample (LCS) recovery (154%) associated with the following sample(s) is outside the upper QC limit of (61-138) indicating a potential positive bias for that analyte. This analyte was not observed above the MDC/RL in the associated samples; therefore the sample data is not adversely affected by this excursion. The data have been reported with this narrative. (LCS 160-498080/1-A)

Methods 904.0, 9320: 9320/904 prep batch 498080

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. Dup-1 (180-116807-1), EB-1 (180-116807-2), WGWA-1 (180-116807-3), WGWA-2 (180-116807-4), WGWA-18 (180-116807-5), WGWA-3 (180-116807-6), WGWA-4 (180-116807-7), WGWA-7 (180-116807-8), (LCS 160-498080/1-A), (MB 160-498080/22-A), (160-41173-M-1-C) and (160-41173-J-1-B MS)

Method 9320: Radium-228 batch 160-499478

The laboratory control sample (LCS) associated with the following samples in Radium-226 batch 160-499478 recovered at 135% for radium-228: FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWA-5 (180-116916-4), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10), WGWC-9 (180-116916-14), (LCS 160-499478/1-A), (LCSD 160-499478/2-A) and (MB 160-499478/10-A). The limits in our LIMS system, at 75-125%, reflect the requirements of a regulatory agency that represents a large amount of our work. However, the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of 61-138%, per method requirements. Although there is a qualifier, the LCS passes. No further action is required.

Method 9320: Radium-228 batch 499478

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWA-5 (180-116916-4), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10) and WGWC-9 (180-116916-14)

Method PrecSep_0: Radium 228 Prep Batch 160-498080:

The following samples were prepared at a reduced aliquot: WGWA-1 (180-116807-3), WGWA-3 (180-116807-6), WGWA-4 (180-116807-7) and WGWA-7 (180-116807-8). Samples 160-41173-1, -1MS, -1MSD, -2, -3, and -4 contained yellow discoloration and a cloudy appearance. Samples 180-116807-3, 500-194559-11, and 500-194630-17 contained noticeable sediment levels. Samples 180-116807-6, -7, -8, -12, and -16 reduced to insure sufficient volume remains if needed for analysis.

Method PrecSep_0: Radium 228 Prep Batch 160-498366:

Insufficient sample volume was available to perform a sample duplicate for the following samples: Dup-2 (180-116916-1), FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWC-19 (180-116916-5), WGWC-11 (180-116916-6), WGWC-12 (180-116916-7), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10), FB-1 (180-116916-12), EB-2 (180-116916-13), WGWC-9 (180-116916-14), WGWC-10 (180-116916-15), WGWC-13 (180-116916-16) and WGWC-14A (180-116916-17). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-498366:

The following samples were prepared at a reduced aliquot: WGWA-5 (180-116916-4) and WGWC-17 (180-116916-11). Samples 660-107806-1 and 660-107807-1 were reduced to insure sufficient volume remains if needed for analysis.

Sample 180-116916-4 contained a light brown discoloration. Sample 180-116916-11 contained a noticeable sediment level. Sample 310-20012-1 contained a yellow discoloration. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-498080:

During the in growth process, the following samples needed to be filtered due to sediment present in the sample. This being an indicator of matrix interference.

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Job ID: 180-116807-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Method PrecSep_0: Radium 228 Prep Batch 160-498366:

During the in growth process, the following samples needed to be filtered due to sediment present in the sample. This being an indicator of matrix interference. WGWA-5 (180-116916-4), WGWC-11 (180-116916-6), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10), WGWC-10 (180-116916-15) and WGWC-13 (180-116916-16).

Method PrecSep_0: Radium 228 Prep Batch 160-499478:

Insufficient sample volume was available to perform a sample duplicate for the following samples: FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWA-5 (180-116916-4), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10) and WGWC-9 (180-116916-14). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-499478:

The following sample(s) were prepared at a reduced aliquot due to re-analysis of the sample(s): FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWA-5 (180-116916-4), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10) and WGWC-9 (180-116916-14).

Method PrecSep-21: Radium 226 Prep Batch 160-498078:

The following samples were prepared at a reduced aliquot: WGWA-1 (180-116807-3), WGWA-3 (180-116807-6), WGWA-4 (180-116807-7) and WGWA-7 (180-116807-8). Samples 160-41173-1, -1MS, -1MSD, -2, -3, and -4 contained yellow discoloration and a cloudy appearance. Samples 180-116807-3, 500-194559-11, and 500-194630-17 contained noticeable sediment levels.

Samples 180-116807-6, -7, -8, -12, and -16 reduced to insure sufficient volume remains if needed for analysis.

Method PrecSep-21: Radium 226 Prep Batch 160-498288:

Insufficient sample volume was available to perform a sample duplicate for the following samples: Dup-2 (180-116916-1), FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWC-19 (180-116916-5), WGWC-11 (180-116916-6), WGWC-12 (180-116916-7), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10), FB-1 (180-116916-12), EB-2 (180-116916-13), WGWC-9 (180-116916-14), WGWC-10 (180-116916-15), WGWC-13 (180-116916-16) and WGWC-14A (180-116916-17). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-498288:

The following samples were prepared at a reduced aliquot: WGWA-5 (180-116916-4) and WGWC-17 (180-116916-11). Samples 660-107806-1 and 660-107807-1 were reduced to insure sufficient volume remains if needed for analysis.

Sample 180-116916-4 contained a light brown discoloration. Sample 180-116916-11 contained a noticeable sediment level. Sample 310-20012-1 contained a yellow discoloration. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-498078:

During the in growth process, the following samples needed to be filtered due to sediment present in the sample. This being an indicator of matrix interference.

Method PrecSep-21: Radium 226 Prep Batch 160-498288:

During the in growth process, the following samples needed to be filtered due to sediment present in the sample. This being an indicator of matrix interference. WGWA-5 (180-116916-4), WGWC-11 (180-116916-6), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10), WGWC-10 (180-116916-15) and WGWC-13 (180-116916-16).

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

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Qualifiers

Rad

| Qualifier | Qualifier Description |
|-----------|---|
| * | LCS or LCSD is outside acceptance limits. |
| U | Result is less than the sample detection limit. |

Glossary

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Laboratory: Eurofins TestAmerica, St. Louis

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

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

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 180-116807-1 | Dup-1 | Water | 02/02/21 00:00 | 02/04/21 09:30 | |
| 180-116807-2 | EB-1 | Water | 02/02/21 14:45 | 02/04/21 09:30 | |
| 180-116807-3 | WGWA-1 | Water | 02/02/21 11:15 | 02/04/21 09:30 | |
| 180-116807-4 | WGWA-2 | Water | 02/02/21 12:20 | 02/04/21 09:30 | |
| 180-116807-5 | WGWA-18 | Water | 02/02/21 14:50 | 02/04/21 09:30 | |
| 180-116807-6 | WGWA-3 | Water | 02/02/21 11:45 | 02/04/21 09:30 | |
| 180-116807-7 | WGWA-4 | Water | 02/02/21 12:50 | 02/04/21 09:30 | |
| 180-116807-8 | WGWA-7 | Water | 02/02/21 14:10 | 02/04/21 09:30 | |
| 180-116916-1 | Dup-2 | Water | 02/04/21 00:00 | 02/06/21 10:00 | |
| 180-116916-2 | FB-2 | Water | 02/04/21 13:20 | 02/06/21 10:00 | |
| 180-116916-3 | WGWA-6 | Water | 02/03/21 10:30 | 02/06/21 10:00 | |
| 180-116916-4 | WGWA-5 | Water | 02/03/21 13:25 | 02/06/21 10:00 | |
| 180-116916-5 | WGWC-19 | Water | 02/03/21 14:30 | 02/06/21 10:00 | |
| 180-116916-6 | WGWC-11 | Water | 02/03/21 14:35 | 02/06/21 10:00 | |
| 180-116916-7 | WGWC-12 | Water | 02/03/21 13:25 | 02/06/21 10:00 | |
| 180-116916-8 | WGWC-8 | Water | 02/03/21 15:45 | 02/06/21 10:00 | |
| 180-116916-9 | WGWC-15 | Water | 02/04/21 11:05 | 02/06/21 10:00 | |
| 180-116916-10 | WGWC-16 | Water | 02/04/21 12:30 | 02/06/21 10:00 | |
| 180-116916-11 | WGWC-17 | Water | 02/04/21 13:45 | 02/06/21 10:00 | |
| 180-116916-12 | FB-1 | Water | 02/04/21 14:15 | 02/06/21 10:00 | |
| 180-116916-13 | EB-2 | Water | 02/04/21 14:30 | 02/06/21 10:00 | |
| 180-116916-14 | WGWC-9 | Water | 02/04/21 14:12 | 02/06/21 10:00 | |
| 180-116916-15 | WGWC-10 | Water | 02/04/21 15:50 | 02/06/21 10:00 | |
| 180-116916-16 | WGWC-13 | Water | 02/04/21 11:15 | 02/06/21 10:00 | |
| 180-116916-17 | WGWC-14A | Water | 02/04/21 12:40 | 02/06/21 10:00 | |

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: Dup-1

Lab Sample ID: 180-116807-1

Date Collected: 02/02/21 00:00

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.77 mL | 1.0 g | 498078 | 02/08/21 13:30 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500594 | 03/03/21 18:21 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.77 mL | 1.0 g | 498080 | 02/08/21 14:04 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498746 | 02/12/21 08:57 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500924 | 03/05/21 17:18 | CMM | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: EB-1

Lab Sample ID: 180-116807-2

Date Collected: 02/02/21 14:45

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.43 mL | 1.0 g | 498078 | 02/08/21 13:30 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500594 | 03/03/21 18:21 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.43 mL | 1.0 g | 498080 | 02/08/21 14:04 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498746 | 02/12/21 08:57 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500924 | 03/05/21 17:18 | CMM | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-1

Lab Sample ID: 180-116807-3

Date Collected: 02/02/21 11:15

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 749.54 mL | 1.0 g | 498078 | 02/08/21 13:30 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500594 | 03/03/21 18:21 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 749.54 mL | 1.0 g | 498080 | 02/08/21 14:04 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498746 | 02/12/21 08:58 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500924 | 03/05/21 17:18 | CMM | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-2

Lab Sample ID: 180-116807-4

Date Collected: 02/02/21 12:20

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 999.43 mL | 1.0 g | 498078 | 02/08/21 13:30 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500594 | 03/03/21 18:21 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-116807-4

Date Collected: 02/02/21 12:20

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep_0 | | | 999.43 mL | 1.0 g | 498080 | 02/08/21 14:04 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498746 | 02/12/21 08:58 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500924 | 03/05/21 17:18 | CMM | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-18

Lab Sample ID: 180-116807-5

Date Collected: 02/02/21 14:50

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 999.76 mL | 1.0 g | 498078 | 02/08/21 13:30 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500594 | 03/03/21 18:21 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 999.76 mL | 1.0 g | 498080 | 02/08/21 14:04 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498746 | 02/12/21 08:58 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500924 | 03/05/21 17:18 | CMM | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-3

Lab Sample ID: 180-116807-6

Date Collected: 02/02/21 11:45

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 750.82 mL | 1.0 g | 498078 | 02/08/21 13:30 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500594 | 03/03/21 18:21 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 750.82 mL | 1.0 g | 498080 | 02/08/21 14:04 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498746 | 02/12/21 08:58 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500924 | 03/05/21 17:18 | CMM | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-4

Lab Sample ID: 180-116807-7

Date Collected: 02/02/21 12:50

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 750.14 mL | 1.0 g | 498078 | 02/08/21 13:30 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500594 | 03/03/21 18:21 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 750.14 mL | 1.0 g | 498080 | 02/08/21 14:04 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498746 | 02/12/21 08:58 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWA-4

Lab Sample ID: 180-116807-7

Date Collected: 02/02/21 12:50

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500924 | 03/05/21 17:18 | CMM | TAL SL |

Client Sample ID: WGWA-7

Lab Sample ID: 180-116807-8

Date Collected: 02/02/21 14:10

Matrix: Water

Date Received: 02/04/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 749.62 mL | 1.0 g | 498078 | 02/08/21 13:30 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500594 | 03/03/21 18:21 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 749.62 mL | 1.0 g | 498080 | 02/08/21 14:04 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498746 | 02/12/21 08:59 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500924 | 03/05/21 17:18 | CMM | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: Dup-2

Lab Sample ID: 180-116916-1

Date Collected: 02/04/21 00:00

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 999.93 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:00 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 999.93 mL | 1.0 g | 498366 | 02/10/21 11:03 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498986 | 02/17/21 08:48 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: FB-2

Lab Sample ID: 180-116916-2

Date Collected: 02/04/21 13:20

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.16 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:00 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 750.01 mL | 1.0 g | 499478 | 02/22/21 15:37 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 500441 | 03/02/21 08:54 | ANW | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWA-6

Lab Sample ID: 180-116916-3

Date Collected: 02/03/21 10:30

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.04 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:00 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 750.64 mL | 1.0 g | 499478 | 02/22/21 15:37 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 500441 | 03/02/21 08:54 | ANW | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-5

Lab Sample ID: 180-116916-4

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 750.49 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:01 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 749.99 mL | 1.0 g | 499478 | 02/22/21 15:37 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 500441 | 03/02/21 08:54 | ANW | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-19

Lab Sample ID: 180-116916-5

Date Collected: 02/03/21 14:30

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.46 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:01 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.46 mL | 1.0 g | 498366 | 02/10/21 11:03 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498986 | 02/17/21 08:49 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-11

Lab Sample ID: 180-116916-6

Date Collected: 02/03/21 14:35

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 999.72 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:01 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-116916-6

Date Collected: 02/03/21 14:35

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep_0 | | | 999.72 mL | 1.0 g | 498366 | 02/10/21 11:03 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498986 | 02/17/21 08:49 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-12

Lab Sample ID: 180-116916-7

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.33 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:03 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.33 mL | 1.0 g | 498366 | 02/10/21 11:03 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498986 | 02/17/21 08:49 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-8

Lab Sample ID: 180-116916-8

Date Collected: 02/03/21 15:45

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.41 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:03 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 750.34 mL | 1.0 g | 499478 | 02/22/21 15:37 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 500441 | 03/02/21 08:55 | ANW | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-15

Lab Sample ID: 180-116916-9

Date Collected: 02/04/21 11:05

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 999.78 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:03 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 750.43 mL | 1.0 g | 499478 | 02/22/21 15:37 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 500441 | 03/02/21 08:55 | ANW | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-15

Lab Sample ID: 180-116916-9

Date Collected: 02/04/21 11:05

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |

Client Sample ID: WGWC-16

Lab Sample ID: 180-116916-10

Date Collected: 02/04/21 12:30

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 999.76 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:04 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 750.02 mL | 1.0 g | 499478 | 02/22/21 15:37 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 500441 | 03/02/21 08:55 | ANW | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-17

Lab Sample ID: 180-116916-11

Date Collected: 02/04/21 13:45

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 749.62 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:04 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 749.62 mL | 1.0 g | 498366 | 02/10/21 11:03 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498986 | 02/17/21 08:50 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: FB-1

Lab Sample ID: 180-116916-12

Date Collected: 02/04/21 14:15

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 999.34 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:04 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 999.34 mL | 1.0 g | 498366 | 02/10/21 11:03 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498986 | 02/17/21 08:50 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: EB-2

Lab Sample ID: 180-116916-13

Date Collected: 02/04/21 14:30

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.44 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:04 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.44 mL | 1.0 g | 498366 | 02/10/21 11:03 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498986 | 02/17/21 08:50 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-9

Lab Sample ID: 180-116916-14

Date Collected: 02/04/21 14:12

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.16 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:04 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 750.09 mL | 1.0 g | 499478 | 02/22/21 15:37 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 500441 | 03/02/21 08:55 | ANW | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-10

Lab Sample ID: 180-116916-15

Date Collected: 02/04/21 15:50

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 999.78 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:06 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 999.78 mL | 1.0 g | 498366 | 02/10/21 11:03 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498986 | 02/17/21 08:50 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-13

Lab Sample ID: 180-116916-16

Date Collected: 02/04/21 11:15

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 999.85 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:06 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-13

Lab Sample ID: 180-116916-16

Date Collected: 02/04/21 11:15

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep_0 | | | 999.85 mL | 1.0 g | 498366 | 02/10/21 11:03 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498986 | 02/17/21 08:50 | FLC | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-14A

Lab Sample ID: 180-116916-17

Date Collected: 02/04/21 12:40

Matrix: Water

Date Received: 02/06/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.27 mL | 1.0 g | 498288 | 02/10/21 10:22 | KMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 500880 | 03/04/21 15:06 | ANW | TAL SL |
| Instrument ID: GFPCRED | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.27 mL | 1.0 g | 498366 | 02/10/21 11:03 | KMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 498987 | 02/17/21 08:52 | FLC | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 500928 | 03/05/21 22:06 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

JEC = Julia Crossen

KMP = Karen Phillips

Batch Type: Analysis

ANW = Amber Woods

CMM = Chelsea Mazariegos

FLC = Fernando Cruz

SCB = Sarah Bernsen

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: Dup-1
Date Collected: 02/02/21 00:00
Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-1
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 | 0.0469 | U | 0.0537 | 0.0539 | 1.00 | 0.0863 | pCi/L | 02/08/21 13:30 | 03/03/21 18:21 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.6 | | 40 - 110 | | | | | 02/08/21 13:30 | 03/03/21 18:21 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0314 | U * | 0.224 | 0.224 | 1.00 | 0.409 | pCi/L | 02/08/21 14:04 | 02/12/21 08:57 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.6 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:57 | 1 |
| Y Carrier | 87.9 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:57 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.0155 | U | 0.230 | 0.230 | 5.00 | 0.409 | pCi/L | | 03/05/21 17:18 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: EB-1

Lab Sample ID: 180-116807-2

Date Collected: 02/02/21 14:45

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | -0.0339 | U | 0.0306 | 0.0308 | 1.00 | 0.0921 | pCi/L | 02/08/21 13:30 | 03/03/21 18:21 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.9 | | 40 - 110 | | | | | 02/08/21 13:30 | 03/03/21 18:21 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.100 | U * | 0.269 | 0.269 | 1.00 | 0.464 | pCi/L | 02/08/21 14:04 | 02/12/21 08:57 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.9 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:57 | 1 |
| Y Carrier | 87.9 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:57 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.0665 | U | 0.271 | 0.271 | 5.00 | 0.464 | pCi/L | | 03/05/21 17:18 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-116807-3

Date Collected: 02/02/21 11:15

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0169 | U | 0.0906 | 0.0906 | 1.00 | 0.173 | pCi/L | 02/08/21 13:30 | 03/03/21 18:21 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.6 | | 40 - 110 | | | | | 02/08/21 13:30 | 03/03/21 18:21 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.226 | U * | 0.370 | 0.370 | 1.00 | 0.624 | pCi/L | 02/08/21 14:04 | 02/12/21 08:58 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.6 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:58 | 1 |
| Y Carrier | 84.5 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:58 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.243 | U | 0.381 | 0.381 | 5.00 | 0.624 | pCi/L | | 03/05/21 17:18 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-116807-4

Date Collected: 02/02/21 12:20

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.00770 | U | 0.0485 | 0.0485 | 1.00 | 0.0970 | pCi/L | 02/08/21 13:30 | 03/03/21 18:21 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 78.4 | | 40 - 110 | | | | | 02/08/21 13:30 | 03/03/21 18:21 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.194 | U * | 0.266 | 0.267 | 1.00 | 0.444 | pCi/L | 02/08/21 14:04 | 02/12/21 08:58 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 78.4 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:58 | 1 |
| Y Carrier | 86.7 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:58 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.202 | U | 0.270 | 0.271 | 5.00 | 0.444 | pCi/L | | 03/05/21 17:18 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWA-18

Lab Sample ID: 180-116807-5

Date Collected: 02/02/21 14:50

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0378 | U | 0.0687 | 0.0688 | 1.00 | 0.121 | pCi/L | 02/08/21 13:30 | 03/03/21 18:21 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.9 | | 40 - 110 | | | | | 02/08/21 13:30 | 03/03/21 18:21 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.316 | U * | 0.259 | 0.261 | 1.00 | 0.412 | pCi/L | 02/08/21 14:04 | 02/12/21 08:58 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.9 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:58 | 1 |
| Y Carrier | 92.7 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:58 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.354 | U | 0.268 | 0.270 | 5.00 | 0.412 | pCi/L | | 03/05/21 17:18 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWA-3

Lab Sample ID: 180-116807-6

Date Collected: 02/02/21 11:45

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0212 | U | 0.0768 | 0.0768 | 1.00 | 0.145 | pCi/L | 02/08/21 13:30 | 03/03/21 18:21 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.0 | | 40 - 110 | | | | | 02/08/21 13:30 | 03/03/21 18:21 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.161 | U * | 0.370 | 0.370 | 1.00 | 0.633 | pCi/L | 02/08/21 14:04 | 02/12/21 08:58 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.0 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:58 | 1 |
| Y Carrier | 84.9 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:58 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.182 | U | 0.378 | 0.378 | 5.00 | 0.633 | pCi/L | | 03/05/21 17:18 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWA-4

Lab Sample ID: 180-116807-7

Date Collected: 02/02/21 12:50

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.525 | | 0.159 | 0.166 | 1.00 | 0.147 | pCi/L | 02/08/21 13:30 | 03/03/21 18:21 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 78.7 | | 40 - 110 | | | | | 02/08/21 13:30 | 03/03/21 18:21 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.526 | U * | 0.383 | 0.386 | 1.00 | 0.602 | pCi/L | 02/08/21 14:04 | 02/12/21 08:58 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 78.7 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:58 | 1 |
| Y Carrier | 94.2 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:58 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.05 | | 0.415 | 0.420 | 5.00 | 0.602 | pCi/L | | 03/05/21 17:18 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-116807-8

Date Collected: 02/02/21 14:10

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0658 | U | 0.0912 | 0.0914 | 1.00 | 0.154 | pCi/L | 02/08/21 13:30 | 03/03/21 18:21 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 80.2 | | 40 - 110 | | | | | 02/08/21 13:30 | 03/03/21 18:21 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.101 | U * | 0.281 | 0.281 | 1.00 | 0.492 | pCi/L | 02/08/21 14:04 | 02/12/21 08:59 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 80.2 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:59 | 1 |
| Y Carrier | 90.5 | | 40 - 110 | | | | | 02/08/21 14:04 | 02/12/21 08:59 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.167 | U | 0.295 | 0.295 | 5.00 | 0.492 | pCi/L | | 03/05/21 17:18 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: Dup-2
 Date Collected: 02/04/21 00:00
 Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-1
 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 | 0.0814 | | 0.0585 | 0.0590 | 1.00 | 0.0777 | pCi/L | 02/10/21 10:22 | 03/04/21 15:00 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.2 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:00 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.771 | * | 0.302 | 0.310 | 1.00 | 0.424 | pCi/L | 02/10/21 11:03 | 02/17/21 08:48 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.2 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:48 | 1 |
| Y Carrier | 87.1 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:48 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.852 | | 0.308 | 0.316 | 5.00 | 0.424 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: FB-2

Lab Sample ID: 180-116916-2

Date Collected: 02/04/21 13:20

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0267 | U | 0.0530 | 0.0530 | 1.00 | 0.0955 | pCi/L | 02/10/21 10:22 | 03/04/21 15:00 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.0 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:00 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.151 | U * | 0.326 | 0.327 | 1.00 | 0.609 | pCi/L | 02/22/21 15:37 | 03/02/21 08:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.7 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:54 | 1 |
| Y Carrier | 84.1 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:54 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | -0.125 | U | 0.330 | 0.331 | 5.00 | 0.609 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWA-6

Lab Sample ID: 180-116916-3

Date Collected: 02/03/21 10:30

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 3.36 | | 0.302 | 0.428 | 1.00 | 0.111 | pCi/L | 02/10/21 10:22 | 03/04/21 15:00 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.2 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:00 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 6.63 | * | 0.763 | 0.977 | 1.00 | 0.641 | pCi/L | 02/22/21 15:37 | 03/02/21 08:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 79.9 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:54 | 1 |
| Y Carrier | 84.1 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:54 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 9.99 | | 0.821 | 1.07 | 5.00 | 0.641 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWA-5

Lab Sample ID: 180-116916-4

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0438 | U | 0.0687 | 0.0688 | 1.00 | 0.119 | pCi/L | 02/10/21 10:22 | 03/04/21 15:01 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.8 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:01 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.358 | U | 0.286 | 0.288 | 1.00 | 0.592 | pCi/L | 02/22/21 15:37 | 03/02/21 08:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.4 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:54 | 1 |
| Y Carrier | 77.8 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:54 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | -0.314 | U | 0.294 | 0.296 | 5.00 | 0.592 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-19

Lab Sample ID: 180-116916-5

Date Collected: 02/03/21 14:30

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0453 | U | 0.0565 | 0.0567 | 1.00 | 0.0934 | pCi/L | 02/10/21 10:22 | 03/04/21 15:01 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.7 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:01 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.639 | * | 0.276 | 0.282 | 1.00 | 0.392 | pCi/L | 02/10/21 11:03 | 02/17/21 08:49 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.7 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:49 | 1 |
| Y Carrier | 88.2 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:49 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.684 | | 0.282 | 0.288 | 5.00 | 0.392 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-116916-6

Date Collected: 02/03/21 14:35

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0988 | U | 0.0755 | 0.0760 | 1.00 | 0.111 | pCi/L | 02/10/21 10:22 | 03/04/21 15:01 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.6 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:01 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.620 | * | 0.284 | 0.290 | 1.00 | 0.414 | pCi/L | 02/10/21 11:03 | 02/17/21 08:49 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.6 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:49 | 1 |
| Y Carrier | 87.9 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:49 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.718 | | 0.294 | 0.300 | 5.00 | 0.414 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-12

Lab Sample ID: 180-116916-7

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.193 | | 0.0876 | 0.0893 | 1.00 | 0.0934 | pCi/L | 02/10/21 10:22 | 03/04/21 15:03 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.4 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:03 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.129 | U * | 0.215 | 0.215 | 1.00 | 0.364 | pCi/L | 02/10/21 11:03 | 02/17/21 08:49 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.4 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:49 | 1 |
| Y Carrier | 88.2 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:49 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.322 | U | 0.232 | 0.233 | 5.00 | 0.364 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-8

Lab Sample ID: 180-116916-8

Date Collected: 02/03/21 15:45

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.578 | | 0.130 | 0.140 | 1.00 | 0.0843 | pCi/L | 02/10/21 10:22 | 03/04/21 15:03 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.5 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:03 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.42 | * | 0.449 | 0.468 | 1.00 | 0.586 | pCi/L | 02/22/21 15:37 | 03/02/21 08:55 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 83.8 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:55 | 1 |
| Y Carrier | 83.7 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:55 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 2.00 | | 0.467 | 0.488 | 5.00 | 0.586 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-15

Lab Sample ID: 180-116916-9

Date Collected: 02/04/21 11:05

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0421 | U | 0.0541 | 0.0543 | 1.00 | 0.0900 | pCi/L | 02/10/21 10:22 | 03/04/21 15:03 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.2 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:03 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.446 | U * | 0.371 | 0.373 | 1.00 | 0.592 | pCi/L | 02/22/21 15:37 | 03/02/21 08:55 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.5 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:55 | 1 |
| Y Carrier | 85.2 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:55 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.488 | U | 0.375 | 0.377 | 5.00 | 0.592 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-16

Lab Sample ID: 180-116916-10

Date Collected: 02/04/21 12:30

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.115 | | 0.0638 | 0.0646 | 1.00 | 0.0741 | pCi/L | 02/10/21 10:22 | 03/04/21 15:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.9 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:04 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.612 | * | 0.375 | 0.380 | 1.00 | 0.572 | pCi/L | 02/22/21 15:37 | 03/02/21 08:55 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.1 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:55 | 1 |
| Y Carrier | 81.5 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:55 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.727 | | 0.380 | 0.385 | 5.00 | 0.572 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-17

Lab Sample ID: 180-116916-11

Date Collected: 02/04/21 13:45

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0755 | U | 0.0686 | 0.0690 | 1.00 | 0.100 | pCi/L | 02/10/21 10:22 | 03/04/21 15:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.8 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:04 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.363 | U * | 0.310 | 0.312 | 1.00 | 0.492 | pCi/L | 02/10/21 11:03 | 02/17/21 08:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.8 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:50 | 1 |
| Y Carrier | 86.0 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:50 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.438 | U | 0.317 | 0.320 | 5.00 | 0.492 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: FB-1

Lab Sample ID: 180-116916-12

Date Collected: 02/04/21 14:15

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0342 | U | 0.0447 | 0.0449 | 1.00 | 0.0744 | pCi/L | 02/10/21 10:22 | 03/04/21 15:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.6 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:04 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0779 | U * | 0.229 | 0.229 | 1.00 | 0.397 | pCi/L | 02/10/21 11:03 | 02/17/21 08:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.6 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:50 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:50 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.112 | U | 0.233 | 0.233 | 5.00 | 0.397 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: EB-2

Lab Sample ID: 180-116916-13

Date Collected: 02/04/21 14:30

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.00763 | U | 0.0434 | 0.0434 | 1.00 | 0.0880 | pCi/L | 02/10/21 10:22 | 03/04/21 15:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 83.2 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:04 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.00244 | U * | 0.261 | 0.261 | 1.00 | 0.466 | pCi/L | 02/10/21 11:03 | 02/17/21 08:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 83.2 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:50 | 1 |
| Y Carrier | 84.9 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:50 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.00518 | U | 0.265 | 0.265 | 5.00 | 0.466 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-9

Lab Sample ID: 180-116916-14

Date Collected: 02/04/21 14:12

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0495 | U | 0.0531 | 0.0533 | 1.00 | 0.0838 | pCi/L | 02/10/21 10:22 | 03/04/21 15:04 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.4 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:04 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.303 | U * | 0.320 | 0.321 | 1.00 | 0.522 | pCi/L | 02/22/21 15:37 | 03/02/21 08:55 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.9 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:55 | 1 |
| Y Carrier | 84.5 | | 40 - 110 | | | | | 02/22/21 15:37 | 03/02/21 08:55 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.353 | U | 0.324 | 0.325 | 5.00 | 0.522 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-10

Lab Sample ID: 180-116916-15

Date Collected: 02/04/21 15:50

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0799 | U | 0.0607 | 0.0612 | 1.00 | 0.0856 | pCi/L | 02/10/21 10:22 | 03/04/21 15:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.1 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:06 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0467 | U * | 0.177 | 0.177 | 1.00 | 0.334 | pCi/L | 02/10/21 11:03 | 02/17/21 08:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.1 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:50 | 1 |
| Y Carrier | 86.0 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:50 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.0332 | U | 0.187 | 0.187 | 5.00 | 0.334 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-13

Lab Sample ID: 180-116916-16

Date Collected: 02/04/21 11:15

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.120 | | 0.0721 | 0.0729 | 1.00 | 0.0942 | pCi/L | 02/10/21 10:22 | 03/04/21 15:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:06 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0196 | U * | 0.178 | 0.178 | 1.00 | 0.322 | pCi/L | 02/10/21 11:03 | 02/17/21 08:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:50 | 1 |
| Y Carrier | 87.1 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:50 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.139 | U | 0.192 | 0.192 | 5.00 | 0.322 | pCi/L | | 03/05/21 22:06 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Client Sample ID: WGWC-14A

Lab Sample ID: 180-116916-17

Date Collected: 02/04/21 12:40

Matrix: Water

Date Received: 02/06/21 10:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.366 | | 0.107 | 0.112 | 1.00 | 0.0922 | pCi/L | 02/10/21 10:22 | 03/04/21 15:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.4 | | 40 - 110 | | | | | 02/10/21 10:22 | 03/04/21 15:06 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.198 | U * | 0.223 | 0.224 | 1.00 | 0.366 | pCi/L | 02/10/21 11:03 | 02/17/21 08:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.4 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:52 | 1 |
| Y Carrier | 84.1 | | 40 - 110 | | | | | 02/10/21 11:03 | 02/17/21 08:52 | 1 |

Method: Ra226_Ra228 - Combined Radium-226 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 | 0.366 | pCi/L | | 03/05/21 22:06 | 1 |

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-498078/22-A
Matrix: Water
Analysis Batch: 500900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498078

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | | Analyzed | | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|------|-------|-------|----------------|----------------|----------|---|---------|
| | Result | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | 02/08/21 13:30 | 03/05/21 07:02 | | | |
| Radium-226 | -0.007267 | U | 0.0634 | 0.0634 | 1.00 | 0.135 | pCi/L | 02/08/21 13:30 | 03/05/21 07:02 | | 1 | |
| Carrier | MB | | Limits | | | | | Prepared | Analyzed | Dil Fac | | |
| Ba Carrier | %Yield | MB Qualifier | 40 - 110 | | | | | 02/08/21 13:30 | 03/05/21 07:02 | 1 | | |
| | 79.0 | | | | | | | | | | | |

Lab Sample ID: LCS 160-498078/1-A
Matrix: Water
Analysis Batch: 500594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498078

| Analyte | LCS | | Spike | LCS | Total | RL | MDC | Unit | %Rec | %Rec. Limits | |
|------------|--------|---------------|----------|--------|-----------------|------|-------|-------|------|--------------|--|
| | Result | LCS Qual | Added | Result | Uncert. (2σ+/-) | | | | | 75 - 125 | |
| Radium-226 | | | 15.1 | 15.63 | 1.60 | 1.00 | 0.127 | pCi/L | 103 | 75 - 125 | |
| Carrier | LCS | | Limits | | | | | | | | |
| Ba Carrier | %Yield | LCS Qualifier | 40 - 110 | | | | | | | | |
| | 80.8 | | | | | | | | | | |

Lab Sample ID: MB 160-498288/23-A
Matrix: Water
Analysis Batch: 500900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498288

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | | Analyzed | | Dil Fac |
|------------|---------|--------------|-----------------|-----------------|------|--------|-------|----------------|----------------|----------|---|---------|
| | Result | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | 02/10/21 10:22 | 03/05/21 07:01 | | | |
| Radium-226 | 0.01064 | U | 0.0480 | 0.0480 | 1.00 | 0.0939 | pCi/L | 02/10/21 10:22 | 03/05/21 07:01 | | 1 | |
| Carrier | MB | | Limits | | | | | Prepared | Analyzed | Dil Fac | | |
| Ba Carrier | %Yield | MB Qualifier | 40 - 110 | | | | | 02/10/21 10:22 | 03/05/21 07:01 | 1 | | |
| | 85.6 | | | | | | | | | | | |

Lab Sample ID: LCS 160-498288/1-A
Matrix: Water
Analysis Batch: 500880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498288

| Analyte | LCS | | Spike | LCS | Total | RL | MDC | Unit | %Rec | %Rec. Limits | |
|------------|--------|---------------|----------|--------|-----------------|------|--------|-------|------|--------------|--|
| | Result | LCS Qual | Added | Result | Uncert. (2σ+/-) | | | | | 75 - 125 | |
| Radium-226 | | | 11.3 | 11.58 | 1.18 | 1.00 | 0.0816 | pCi/L | 102 | 75 - 125 | |
| Carrier | LCS | | Limits | | | | | | | | |
| Ba Carrier | %Yield | LCS Qualifier | 40 - 110 | | | | | | | | |
| | 88.9 | | | | | | | | | | |

Lab Sample ID: LCSD 160-498288/2-A
Matrix: Water
Analysis Batch: 500880

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 498288

| Analyte | LCSD | | Spike | LCSD | Total | RL | MDC | Unit | %Rec | %Rec. Limits | | RER | RER Limit |
|------------|--------|-----------|-------|--------|-----------------|------|--------|-------|------|--------------|------|-----|-----------|
| | Result | LCSD Qual | Added | Result | Uncert. (2σ+/-) | | | | | 75 - 125 | 0.56 | 1 | |
| Radium-226 | | | 11.3 | 10.32 | 1.06 | 1.00 | 0.0831 | pCi/L | 91 | 75 - 125 | 0.56 | 1 | |

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

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

Lab Sample ID: LCSD 160-498288/2-A
Matrix: Water
Analysis Batch: 500880

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 498288

| | LCS D | LCS D | |
|------------|--------|-----------|----------|
| Carrier | %Yield | Qualifier | Limits |
| Ba Carrier | 90.1 | | 40 - 110 |

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-498080/22-A
Matrix: Water
Analysis Batch: 498749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498080

| Analyte | MB MB | | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|----------------|----------------|---------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| Radium-228 | -0.2234 | U | 0.342 | 0.343 | 1.00 | 0.649 | pCi/L | 02/08/21 14:04 | 02/12/21 09:01 | 1 |
| Carrier | %Yield | Qualifier | Limits | | Prepared | Analyzed | Dil Fac | | | |
| Ba Carrier | 79.0 | | 40 - 110 | | 02/08/21 14:04 | 02/12/21 09:01 | 1 | | | |
| Y Carrier | 88.6 | | 40 - 110 | | 02/08/21 14:04 | 02/12/21 09:01 | 1 | | | |

Lab Sample ID: LCS 160-498080/1-A
Matrix: Water
Analysis Batch: 498746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498080

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. | |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|----------|--|
| | | | | | | | | | Limits | |
| Radium-228 | 9.91 | 15.22 | * | 1.76 | 1.00 | 0.627 | pCi/L | 154 | 75 - 125 | |
| Carrier | %Yield | Limits | | | | | | | | |
| Ba Carrier | 80.8 | 40 - 110 | | | | | | | | |
| Y Carrier | 86.7 | 40 - 110 | | | | | | | | |

Lab Sample ID: MB 160-498366/23-A
Matrix: Water
Analysis Batch: 498987

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498366

| Analyte | MB MB | | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|----------------|----------------|---------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| Radium-228 | 0.03713 | U | 0.254 | 0.254 | 1.00 | 0.448 | pCi/L | 02/10/21 11:03 | 02/17/21 08:53 | 1 |
| Carrier | %Yield | Qualifier | Limits | | Prepared | Analyzed | Dil Fac | | | |
| Ba Carrier | 85.6 | | 40 - 110 | | 02/10/21 11:03 | 02/17/21 08:53 | 1 | | | |
| Y Carrier | 84.1 | | 40 - 110 | | 02/10/21 11:03 | 02/17/21 08:53 | 1 | | | |

Lab Sample ID: LCS 160-498366/1-A
Matrix: Water
Analysis Batch: 498986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498366

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. | |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|----------|--|
| | | | | | | | | | Limits | |
| Radium-228 | 7.42 | 12.48 | * | 1.40 | 1.00 | 0.427 | pCi/L | 168 | 75 - 125 | |

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

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

Lab Sample ID: LCS 160-498366/1-A
Matrix: Water
Analysis Batch: 498986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498366

| | LCS | LCS | |
|------------|--------|-----------|----------|
| Carrier | %Yield | Qualifier | Limits |
| Ba Carrier | 88.9 | | 40 - 110 |
| Y Carrier | 82.2 | | 40 - 110 |

Lab Sample ID: LCSD 160-498366/2-A
Matrix: Water
Analysis Batch: 498986

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 498366

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | | RER | RER Limit |
|------------|-------------|-------------|-----------|-----------------------|------|-------|-------|------|--------------|------|-----|-----------|
| | | | | | | | | | 75 - 125 | 1.06 | 1 | |
| Radium-228 | 7.42 | 9.792 | * | 1.14 | 1.00 | 0.414 | pCi/L | 132 | 75 - 125 | 1.06 | 1 | |

| | LCSD | LCSD | |
|------------|--------|-----------|----------|
| Carrier | %Yield | Qualifier | Limits |
| Ba Carrier | 90.1 | | 40 - 110 |
| Y Carrier | 86.0 | | 40 - 110 |

Lab Sample ID: MB 160-499478/10-A
Matrix: Water
Analysis Batch: 500441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499478

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | | Analyzed | | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|----------------|-------|---------|
| | | | | | | | | 02/22/21 15:37 | 03/02/21 08:55 | 03/02/21 08:55 | 08:55 | 1 |
| Radium-228 | 0.1595 | U | 0.321 | 0.321 | 1.00 | 0.549 | pCi/L | 02/22/21 15:37 | 03/02/21 08:55 | 03/02/21 08:55 | 08:55 | 1 |

| Carrier | MB %Yield | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|----------|----------------|----------------|---------|
| Ba Carrier | 88.6 | | 40 - 110 | 02/22/21 15:37 | 03/02/21 08:55 | 1 |
| Y Carrier | 83.4 | | 40 - 110 | 02/22/21 15:37 | 03/02/21 08:55 | 1 |

Lab Sample ID: LCS 160-499478/1-A
Matrix: Water
Analysis Batch: 500441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499478

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|--|
| | | | | | | | | | 75 - 125 | |
| Radium-228 | 9.85 | 13.28 | * | 1.56 | 1.00 | 0.584 | pCi/L | 135 | 75 - 125 | |

| | LCS | LCS | |
|------------|--------|-----------|----------|
| Carrier | %Yield | Qualifier | Limits |
| Ba Carrier | 86.5 | | 40 - 110 |
| Y Carrier | 83.7 | | 40 - 110 |

Lab Sample ID: LCSD 160-499478/2-A
Matrix: Water
Analysis Batch: 500441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 499478

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | | RER | RER Limit |
|------------|-------------|-------------|-----------|-----------------------|------|-------|-------|------|--------------|------|-----|-----------|
| | | | | | | | | | 75 - 125 | 0.51 | 1 | |
| Radium-228 | 9.85 | 11.75 | | 1.45 | 1.00 | 0.632 | pCi/L | 119 | 75 - 125 | 0.51 | 1 | |

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

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

Lab Sample ID: LCSD 160-499478/2-A
Matrix: Water
Analysis Batch: 500441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 499478

| Carrier | LCSD | | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 81.4 | | 40 - 110 |
| Y Carrier | 82.2 | | 40 - 110 |

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Rad

Prep Batch: 498078

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 180-116807-1 | Dup-1 | Total/NA | Water | PrecSep-21 | |
| 180-116807-2 | EB-1 | Total/NA | Water | PrecSep-21 | |
| 180-116807-3 | WGWA-1 | Total/NA | Water | PrecSep-21 | |
| 180-116807-4 | WGWA-2 | Total/NA | Water | PrecSep-21 | |
| 180-116807-5 | WGWA-18 | Total/NA | Water | PrecSep-21 | |
| 180-116807-6 | WGWA-3 | Total/NA | Water | PrecSep-21 | |
| 180-116807-7 | WGWA-4 | Total/NA | Water | PrecSep-21 | |
| 180-116807-8 | WGWA-7 | Total/NA | Water | PrecSep-21 | |
| MB 160-498078/22-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-498078/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |

Prep Batch: 498080

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 180-116807-1 | Dup-1 | Total/NA | Water | PrecSep_0 | |
| 180-116807-2 | EB-1 | Total/NA | Water | PrecSep_0 | |
| 180-116807-3 | WGWA-1 | Total/NA | Water | PrecSep_0 | |
| 180-116807-4 | WGWA-2 | Total/NA | Water | PrecSep_0 | |
| 180-116807-5 | WGWA-18 | Total/NA | Water | PrecSep_0 | |
| 180-116807-6 | WGWA-3 | Total/NA | Water | PrecSep_0 | |
| 180-116807-7 | WGWA-4 | Total/NA | Water | PrecSep_0 | |
| 180-116807-8 | WGWA-7 | Total/NA | Water | PrecSep_0 | |
| MB 160-498080/22-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-498080/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |

Prep Batch: 498288

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 180-116916-1 | Dup-2 | Total/NA | Water | PrecSep-21 | |
| 180-116916-2 | FB-2 | Total/NA | Water | PrecSep-21 | |
| 180-116916-3 | WGWA-6 | Total/NA | Water | PrecSep-21 | |
| 180-116916-4 | WGWA-5 | Total/NA | Water | PrecSep-21 | |
| 180-116916-5 | WGWC-19 | Total/NA | Water | PrecSep-21 | |
| 180-116916-6 | WGWC-11 | Total/NA | Water | PrecSep-21 | |
| 180-116916-7 | WGWC-12 | Total/NA | Water | PrecSep-21 | |
| 180-116916-8 | WGWC-8 | Total/NA | Water | PrecSep-21 | |
| 180-116916-9 | WGWC-15 | Total/NA | Water | PrecSep-21 | |
| 180-116916-10 | WGWC-16 | Total/NA | Water | PrecSep-21 | |
| 180-116916-11 | WGWC-17 | Total/NA | Water | PrecSep-21 | |
| 180-116916-12 | FB-1 | Total/NA | Water | PrecSep-21 | |
| 180-116916-13 | EB-2 | Total/NA | Water | PrecSep-21 | |
| 180-116916-14 | WGWC-9 | Total/NA | Water | PrecSep-21 | |
| 180-116916-15 | WGWC-10 | Total/NA | Water | PrecSep-21 | |
| 180-116916-16 | WGWC-13 | Total/NA | Water | PrecSep-21 | |
| 180-116916-17 | WGWC-14A | Total/NA | Water | PrecSep-21 | |
| MB 160-498288/23-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-498288/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-498288/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

Prep Batch: 498366

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-----------|------------|
| 180-116916-1 | Dup-2 | Total/NA | Water | PrecSep_0 | |
| 180-116916-5 | WGWC-19 | Total/NA | Water | PrecSep_0 | |

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-116807-2

Rad (Continued)

Prep Batch: 498366 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 180-116916-6 | WGWC-11 | Total/NA | Water | PrecSep_0 | |
| 180-116916-7 | WGWC-12 | Total/NA | Water | PrecSep_0 | |
| 180-116916-11 | WGWC-17 | Total/NA | Water | PrecSep_0 | |
| 180-116916-12 | FB-1 | Total/NA | Water | PrecSep_0 | |
| 180-116916-13 | EB-2 | Total/NA | Water | PrecSep_0 | |
| 180-116916-15 | WGWC-10 | Total/NA | Water | PrecSep_0 | |
| 180-116916-16 | WGWC-13 | Total/NA | Water | PrecSep_0 | |
| 180-116916-17 | WGWC-14A | Total/NA | Water | PrecSep_0 | |
| MB 160-498366/23-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-498366/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-498366/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

Prep Batch: 499478

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 180-116916-2 | FB-2 | Total/NA | Water | PrecSep_0 | |
| 180-116916-3 | WGWA-6 | Total/NA | Water | PrecSep_0 | |
| 180-116916-4 | WGWA-5 | Total/NA | Water | PrecSep_0 | |
| 180-116916-8 | WGWC-8 | Total/NA | Water | PrecSep_0 | |
| 180-116916-9 | WGWC-15 | Total/NA | Water | PrecSep_0 | |
| 180-116916-10 | WGWC-16 | Total/NA | Water | PrecSep_0 | |
| 180-116916-14 | WGWC-9 | Total/NA | Water | PrecSep_0 | |
| MB 160-499478/10-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-499478/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-499478/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

Chain of Custody Record




| | | | | | | | |
|---|--------|---|---|---|---|--|----------|
| Client Information Client Contact: SCS Contacts Company: GA Power Address: 241 Ralph McGill Blvd SE City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: SCS Contacts Project Name: CCR - Plant Wansley Ash Pond Site: | | Sampler: <i>O. Figueroa, H. Auld</i> Lab PM: Brown, Shali Phone: 770-594-5998 E-Mail: shali.brown@eurofins.com | | Carrier Tracking No(s): AIC to A+1 | | COC No: Page: 1 of Job #: | |
| Due Date Requested: TAT Requested (days): PO #: SCS-10382606 WO #: | | Analysis Requested: App. IV Metals (Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl) Fluoride (EPA 300.0) Radium 226 & 228 (SW-846 9315/9320) | | Preservation Codes: 'hexane Jne sNaO2 a2O4S a2SO3 2SO4 3P Dodecahydrate cetone JCAA W - pH 4-5 Z - other (specify) | | Special Instructions/Note: App 4 Scan Event | |
| Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air) | | Field Filtered Sample (Yes or No) Particulate Matter (Yes or No) | | Total Number of containers: pH= | | Special Instructions/Note: App 4 Scan Event | |
| DUP-1 | 2-2-21 | - | G | Water | N | 4 | pH= NA |
| EB-1 | 2-2-21 | 1445 | G | Water | N | 1 | pH= NA |
| NGWA-1 | 2-2-21 | 1115 | G | Water | N | 4 | pH= 5.36 |
| NGWA-2 | 2-2-21 | 1220 | G | Water | N | 4 | pH= 6.10 |
| NGWA-18 | 2-2-21 | 1450 | G | Water | N | 4 | pH= 6.48 |
| NGWA-3 | 2-2-21 | 1145 | G | Water | N | 4 | pH= 5.78 |
| NGWA-4 | 2-2-21 | 1250 | G | Water | N | 4 | pH= 6.61 |
| NGWA-7 | 2-2-21 | 1410 | G | Water | N | 4 | pH= 5.84 |
| | | | G | Water | | | pH= |
| | | | G | Water | | | pH= |
| | | | G | Water | | | pH= |

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 2/3/21 13:34 Company: ACE
 Relinquished by: _____ Date/Time: 2/3/21 16:00 Company: EPA
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seal No.: _____
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:

1 & 2

| | | | | | | | | | | | |
|--|---------------|------------------------------------|------------------------------|--|-----------------------------------|---|----------------------|-------------------------------------|---------------------------|-----------------------------------|--|
| Client Information | | Sampler: <u>O. FUQUEA, H. AVID</u> | | Lab PM: <u>Brown, Shali</u> | Carrier Tracking No(s): | COC No.: | | | | | |
| Client Contact: <u>SCS Contacts</u> | | Phone: <u>(770) 594-5948</u> | | E-Mail: <u>shali.brown@euofinset.com</u> | | Page: | | | | | |
| Company: <u>GA Power</u> | | | | | | Job #: | | | | | |
| Address: <u>241 Ralph McGill Blvd SE</u> | | Due Date Requested: | | Analysis Requested | | | | | | | |
| City: <u>Atlanta</u> | | TAT Requested (days): | | <input type="checkbox"/> Perform MSMSD (Yes or No) <input type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> App. IV Metals (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) <input type="checkbox"/> Fluoride (EPA 300.0) <input type="checkbox"/> Radium 226 & 228 (SW-846 9315/9320) | | | | | | | |
| State, Zip: <u>GA, 30308</u> | | PO #: <u>404-506-7116(Tel)</u> | | Preservation Codes: M - Hexane A - HCL B - NaOH C - Zn Acetate D - Nitric Acid ... SO3 X Y Z 10decylhydrate 1 -5 (specify) | | | | | | | |
| Email: <u>SCS Contacts</u> | | WO #: <u>SCS10382606</u> | | 180-116916 Chain of Custody  | | | | | | | |
| Project Name: <u>CCR - Plant Wansley Ash Pond</u> | | Project #: <u>18019922</u> | | Special Instructions/Note: App 4 Scan Event | | | | | | | |
| Site: <u></u> | | SSOW#: <u></u> | | Total Number of pH= | | | | | | | |
| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air) | Field Filtered Sample (Yes or No) | App. IV Metals (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) | Fluoride (EPA 300.0) | Radium 226 & 228 (SW-846 9315/9320) | Perform MSMSD (Yes or No) | Field Filtered Sample (Yes or No) | Special Instructions/Note: App 4 Scan Event |
| <u>DUP-2</u> | <u>2-4-21</u> | <u>1320</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>N</u> | <u>N</u> | <u>4</u> pH= |
| <u>FIED of 2-4-21 FB-2</u> | <u>2-4-21</u> | <u>1320</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>N</u> | <u>N</u> | <u>4</u> pH= |
| <u>WGWA-6</u> | <u>2-3-21</u> | <u>1030</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>N</u> | <u>N</u> | <u>4</u> pH= 7.76 |
| <u>WGWA-5</u> | <u>2-3-21</u> | <u>1325</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>N</u> | <u>N</u> | <u>4</u> pH= 5.30 |
| <u>WGWC-19</u> | <u>1-3-21</u> | <u>1430</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>N</u> | <u>N</u> | <u>4</u> pH= 6.75 |
| <u>WGWC-11</u> | <u>2-3-21</u> | <u>1435</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>N</u> | <u>N</u> | <u>4</u> pH= 5.21 |
| <u>WGWC-12</u> | <u>2-3-21</u> | <u>1325</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>N</u> | <u>N</u> | <u>4</u> pH= 6.15 |
| <u>WGWC-8</u> | <u>2-3-21</u> | <u>1545</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>N</u> | <u>N</u> | <u>4</u> pH= 5.08 |
| <u>WGWC-15</u> | <u>2-4-21</u> | <u>1105</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>N</u> | <u>N</u> | <u>4</u> pH= 7.77 |
| <u>WGWC-16</u> | <u>2-4-21</u> | <u>1230</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>N</u> | <u>N</u> | <u>4</u> pH= 5.42 |
| <u>WGWC-17</u> | <u>2-4-21</u> | <u>1345</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>N</u> | <u>N</u> | <u>4</u> pH= 6.31 |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | | | |
| Special Instructions/QC Requirements: | | | | | | | | | | | |
| Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date: <u>2/5/21</u> 10:20 Company: <u>AEC</u> Relinquished by: _____ Date: <u>2/5/21</u> 16:00 Company: <u>RT</u> Relinquished by: _____ Date: _____ Company: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No | | | | | | | | | | | |
| Cooler Temperature(s) °C and Other Remarks: | | | | | | | | | | | |

244-ATLANTA

Chain of Custody Record



2 of 2

| Client Information | | Sampler: <u>O. F. Quica, H. Auld</u> | Lab PM: <u>Brown, Shali</u> | Carrier Tracking No(s): | COC No: | | | | | |
|---|---------------|--------------------------------------|---|---|-----------------------------------|---------------------------|---|----------------------|-------------------------------------|----------------------------|
| Client Contact: SCS Contacts | | Phone: <u>(770) 594-5998</u> | E-Mail: <u>shali.brown@eurofinset.com</u> | | Page: | | | | | |
| Company: GA Power | | | | | Job #: | | | | | |
| Address: 241 Ralph McGill Blvd SE | | Due Date Requested: | | Analysis Requested | | | | | | |
| City: Atlanta | | TAT Requested (days): | | Preservation Codes: | | | | | | |
| State, Zip: GA, 30308 | | | | A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: | | | | | | |
| Phone: 404-506-7116 (Tel) | | PO #: <u>SCS10382606</u> | | M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) | | | | | | |
| Email: SCS Contacts | | WO #: | | Special Instructions/Note: Full | | | | | | |
| Project Name: CCR - Plant Wansley Ash Pond | | Project #: <u>18019922</u> | | App 4 Scan Event | | | | | | |
| Site: | | SSOW#: | | Total Number of containers | | | | | | |
| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air) | Field Filtered Sample (Yes or No) | Period MS/MSD (Yes or No) | App. IV Metals (Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl) | Fluoride (EPA 300.0) | Radium 226 & 228 (SW-846 9315/9320) | Special Instructions/Note: |
| <u>FB-1</u> | <u>2-4-21</u> | <u>1415</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>pH=</u> |
| <u>FB-2</u> | <u>2-4-21</u> | <u>1430</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>pH=</u> |
| <u>WGWC-9</u> | <u>2-4-21</u> | <u>1412</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>pH= 6.22</u> |
| <u>WGWC-10</u> | <u>2-4-21</u> | <u>1550</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>pH= 6.21</u> |
| <u>WGWC-13</u> | <u>2-4-21</u> | <u>1115</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>pH= 6.34</u> |
| <u>WGWC-14A</u> | <u>2-4-21</u> | <u>1240</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>pH= 5.70</u> |
| | | | <u>G</u> | <u>Water</u> | | | | | | <u>pH=</u> |
| | | | <u>G</u> | <u>Water</u> | | | | | | <u>pH=</u> |
| | | | <u>G</u> | <u>Water</u> | | | | | | <u>pH=</u> |
| | | | <u>G</u> | <u>Water</u> | | | | | | <u>pH=</u> |
| | | | <u>G</u> | <u>Water</u> | | | | | | <u>pH=</u> |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input checked="" type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | | |
| Special Instructions/QC Requirements: | | | | | | | | | | |
| Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____ | | | | | | | | | | |





eurofins

RT **97**
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1 16:30
A 9371 02.04

Part # 199469-434 RT2 EXP 11/21

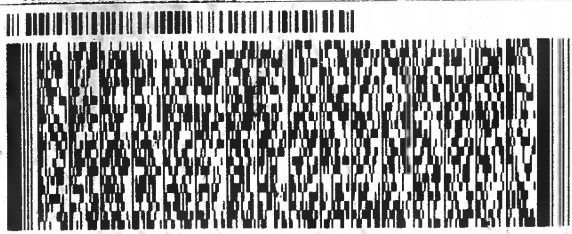
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 03FEB21
ACTWGT: 59.85 LB
CAD: 859116/CAFE3406

BILL RECIPIENT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC - WANSLEY



FedEx
Express
E
AN1090116101026

1 of 2
TRK# 1516 9327 9371
0201
MASTER

THU - 04 FEB 4:30P
STANDARD OVERNIGHT

NA AGCA

15238
PA-US **PIT**

Uncorrected temp
Thermometer ID
CF 0 Initials Y
PT-WI-SR-001 effective 11/8/18

58M1/B69R/0565



97

FZ

1/6:30
9382
02104
A
resting
ca.

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 03FEB21
ACTWGT: 59.85 LB
CAD: 859116/CAFE3406

BILL RECEIPT

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 863-7058

REF: ACC - WANSLEY



FedEx
Express



AD109019110601

2 of 2
MPS# 1516 9327 9382
0263
Mstr# 1516 9327 9371

THU - 04 FEB 4:30P
STANDARD OVERNIGHT

0201

NA AGCA

15238
PA-US
PIT

Uncorrectea temp
Thermometer ID

2.6

14

CF O Initials

g

PT-WI-SR-001 effective 11/8/18



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- 13

SDR



ORIGIN ID: L1YA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

SHIP DATE: 05FEB21
 ACTWGT: 66.70 LB
 CAD: 859116/CAFE3406

BILL RECIPIENT

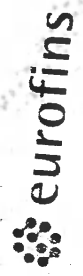
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238



4 of 4
MPS# 1516 9328 0066
MsTr# 1516 9328 0033
XO AGCA
SATURDAY 12:00P
PRIORITY OVERNIGHT
15238
PA-US PIT

Uncorrected temp
 Thermometer ID
 CF Initials
 28 / 14 °C
 PT-WI-SR-001 effective 11/8/18

58DC1/R69R/2052P



Environment Testing
 TestAmerica

ORIGIN ID: L1YA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

TO **SAMPLE RECEIVING**

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
 (412) 963-7066
 REF: ACCC - WANSLEY



1 of 4
TRM# 1516 9328 0033
MASTER
XO AGCA
SATURDAY 12:00P
PRIORITY OVERNIGHT
15238
PA-US PIT

Uncorrected temp
 Thermometer ID
 CF Initials
 31 / 14 °C
 PT-WI-SR-001 effective 11/8/18

atl # 159469-434 RIT2 EXP 11/21 ©

58DC1/R69R/2052P



Environment Testing
TestAmerica

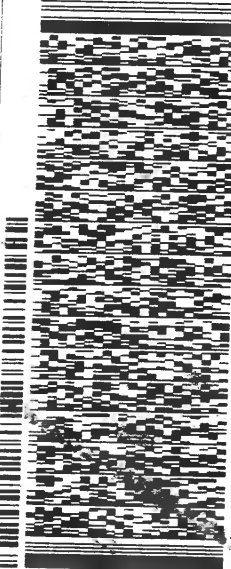
RT 639

Part # 159469-434 RIT2 EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES

SHIP DATE: 05FEB21
ACTWGT: 66.70 LB
CAD: 859116/CAFE3406
BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACCC - WANSLEY



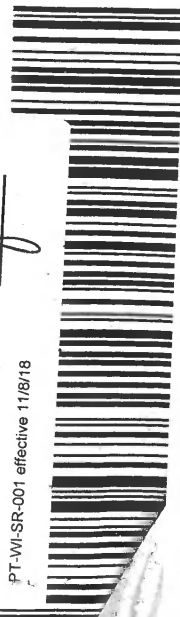
2 of 4
MPS# 1516 9328 0044
0263
Mstr# 1516 9328 0033 [0201]

SATURDAY 12:00P
PRIORITY OVERNIGHT

XI Uncorrected temp 2.5
Thermometer ID 14 15238
PA-US PIT

CF Initials

PT-WI-SR-001 effective 11/6/18

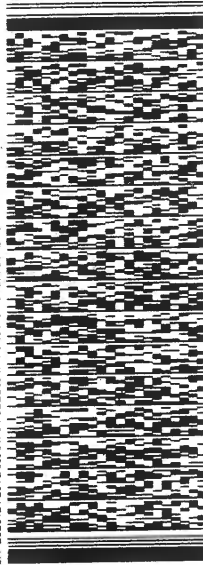
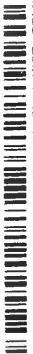


Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES

SHIP DATE: 05FEB21
ACTWGT: 66.70 LB
CAD: 859116/CAFE3406
BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACCC - WANSLEY



3 of 4
MPS# 1516 9328 0055
0263
Mstr# 1516 9328 0033 [0201]

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGGA Uncorrected temp 2.1
Thermometer ID 14 15238
PA-US PIT

CF Initials

PT-WI-SR-001 effective 11/6/18



Chain of Custody Record



| | | | | |
|---|--|---|--------------------------|----------------------|
| Client Information (Sub Contract Lab) | | Lab PM: Brown, Shali | Carrier Tracking No(s): | COC No: 180-425732.1 |
| Client Contact: Shipping/Receiving | | E-Mail: Shali.Brown@Eurofinset.com | State of Origin: Georgia | Page: Page 1 of 1 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): 180-116807-2 | | |
| Address: 13715 Rider Trail North, Earth City, MO, 63045 | | Analysis Requested | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | | 9315 Ra226/Presep_21 Standard Target List | | |
| Email: Wansley CCR | | 9320 Ra228/Presep_0 Standard Target List | | |
| Project Name: CCR - Plant Wansley Ash Pond | | Raz226Ra228_GFPc | | |
| Site: Wansley CCR | | Total Number of Containers | | |
| Due Date Requested: 3/10/2021 | | Field Filled Sample (Yes or No) | | |
| TAT Requested (days): | | Perform MS/MSD (Yes or No) | | |
| PO #: | | Preservation Code: | | |
| WO #: | | Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Al) | | |
| Project #: 18019922 | | Sample Type (C=Comp, G=grab) | | |
| SSOW#: | | Sample Date | | |
| Sample Date | | Sample Time | | |
| Sample Time | | Sample Identification - Client ID (Lab ID) | | |
| Sample Identification - Client ID (Lab ID) | | Preservation Code | | |
| Dup-1 (180-116807-1) | | Water | | |
| EB-1 (180-116807-2) | | Water | | |
| WGWA-1 (180-116807-3) | | Water | | |
| WGWA-2 (180-116807-4) | | Water | | |
| WGWA-18 (180-116807-5) | | Water | | |
| WGWA-3 (180-116807-6) | | Water | | |
| WGWA-4 (180-116807-7) | | Water | | |
| WGWA-7 (180-116807-8) | | Water | | |
| Special Instructions/Note: | | | | |
| Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/ests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica. | | | | |
| Possible Hazard Identification | | | | |
| Unconfirmed | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | | | | |
| Empty Kit Relinquished by: Date: Time: Method of Shipment: Archive For Months | | | | |
| Relinquished by: <i>Jeremy Jones</i> Date/Time: 2/5/21 17:00 Company: ETA P/H | | | | |
| Relinquished by: <i>Jeremy Jones</i> Date/Time: Date/Time: 2/16/21 09:09 Company: ETASTL | | | | |
| Relinquished by: <i>Jeremy Jones</i> Date/Time: Date/Time: Date/Time: Company: Company | | | | |
| Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks: | | | | |

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-116807-2

Login Number: 116807

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-116807-2

Login Number: 116807

List Number: 2

Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 02/06/21 11:50 AM

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-116807-2

Login Number: 116916

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-116807-2

Login Number: 116916

List Source: Eurofins TestAmerica, St. Louis

List Number: 2

List Creation: 02/09/21 01:29 PM

Creator: Worthington, Sierra M

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



Analytical Laboratory Packages – March 2021

ANALYTICAL REPORT

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

Laboratory Job ID: 180-118348-1

Client Project/Site: CCR - Plant Wansley Ash Pond
Revision: 1

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
4/21/2021 5:42:53 PM

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

LINKS

Review your project
results through
Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Job ID: 180-118348-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-118348-1

Comments

042121 Revised report to correct Thallium result for the following sample based on re-analysis: WGWC-10 (180-118398-2). This report replaces the report previously issued on 041221.

Receipt

The samples were received on 3/12/2021 8:30 AM and 3/13/2021 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 2.5° C, 2.5° C, 2.5° C, 2.6° C, 2.8° C, 2.9° C, 3.2° C, 3.2° C and 3.6° C.

GC Semi VOA

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

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-350467 recovered above the upper control limit for selenium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: WGWA-2 (180-118348-2), WGWA-3 (180-118348-3), WGWA-4 (180-118348-4), WGWA-5 (180-118348-5), WGWA-6 (180-118348-6), WGWA-7 (180-118348-7), WGWA-18 (180-118348-8), Dup-1 (180-118348-10), WGWC-17 (180-118348-12), EB-1 (180-118348-13), EB-2 (180-118348-14) and FB-1 (180-118348-15).

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

Field Service / Mobile Lab

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

General Chemistry

Method SM 2320B: The following samples were analyzed outside of analytical holding time due to mechanical issues: WGWA-1 (180-118348-1), WGWA-2 (180-118348-2), WGWA-3 (180-118348-3), WGWA-4 (180-118348-4), WGWA-5 (180-118348-5), WGWA-6 (180-118348-6), WGWA-7 (180-118348-7), WGWA-18 (180-118348-8), WGWC-8 (180-118348-9), Dup-1 (180-118348-10), WGWC-16 (180-118348-11), WGWC-17 (180-118348-12), EB-1 (180-118348-13), EB-2 (180-118348-14), WGWC-10 (180-118398-2), WGWC-13 (180-118398-4), WGWC-14A (180-118398-5), WGWC-19 (180-118398-7), Dup-2 (180-118398-8), WGWC-15 (180-118398-1), WGWC-11 (180-118398-3), WGWC-9 (180-118398-6), FB-2 (180-118398-9), WGWC-12 (180-118398-10) and FB-1 (180-118348-15).

Method SM 2540C: The following samples were analyzed outside of analytical holding time due to analyst error: WGWA-18 (180-118348-8) and Dup-1 (180-118348-10).

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

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

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 |
|-----------|--|
| ^+ | Continuing Calibration Verification (CCV) is outside acceptance limits, high biased. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

General Chemistry

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

Glossary

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

| Authority | Program | Identification Number | Expiration Date |
|------------------------|---------------------|-----------------------|-----------------|
| Arkansas DEQ | State | 19-033-0 | 06-27-21 |
| California | State | 2891 | 04-30-21 |
| Connecticut | State | PH-0688 | 09-30-20 * |
| Florida | NELAP | E871008 | 06-30-21 |
| Georgia | State | PA 02-00416 | 04-30-21 |
| Illinois | NELAP | 004375 | 06-30-21 |
| Kansas | NELAP | E-10350 | 01-31-22 |
| Kentucky (UST) | State | 162013 | 04-30-21 |
| Kentucky (WW) | State | KY98043 | 12-31-21 |
| Louisiana | NELAP | 04041 | 06-30-21 |
| Maine | State | PA00164 | 03-06-22 |
| Minnesota | NELAP | 042-999-482 | 12-31-21 |
| Nevada | State | PA00164 | 07-31-21 |
| New Hampshire | NELAP | 2030 | 04-11-21 |
| New Jersey | NELAP | PA005 | 06-30-21 |
| New York | NELAP | 11182 | 04-01-22 |
| North Carolina (WW/SW) | State | 434 | 12-31-21 |
| North Dakota | State | R-227 | 04-30-21 |
| Oregon | NELAP | PA-2151 | 02-06-22 |
| Pennsylvania | NELAP | 02-00416 | 04-30-21 |
| Rhode Island | State | LAO00362 | 12-31-21 |
| South Carolina | State | 89014 | 04-30-21 |
| Texas | NELAP | T104704528 | 03-31-22 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-21 |
| USDA | Federal | P-Soil-01 | 06-26-22 |
| USDA | US Federal Programs | P330-16-00211 | 06-26-22 |
| Utah | NELAP | PA001462019-8 | 05-31-21 |
| Virginia | NELAP | 10043 | 09-14-21 |
| West Virginia DEP | State | 142 | 01-31-22 |
| Wisconsin | State | 998027800 | 08-31-21 |

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

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 180-118348-1 | WGWA-1 | Water | 03/11/21 09:35 | 03/12/21 08:30 | |
| 180-118348-2 | WGWA-2 | Water | 03/10/21 08:55 | 03/12/21 08:30 | |
| 180-118348-3 | WGWA-3 | Water | 03/10/21 10:54 | 03/12/21 08:30 | |
| 180-118348-4 | WGWA-4 | Water | 03/10/21 12:17 | 03/12/21 08:30 | |
| 180-118348-5 | WGWA-5 | Water | 03/10/21 17:05 | 03/12/21 08:30 | |
| 180-118348-6 | WGWA-6 | Water | 03/11/21 10:58 | 03/12/21 08:30 | |
| 180-118348-7 | WGWA-7 | Water | 03/10/21 13:45 | 03/12/21 08:30 | |
| 180-118348-8 | WGWA-18 | Water | 03/10/21 15:42 | 03/12/21 08:30 | |
| 180-118348-9 | WGWC-8 | Water | 03/11/21 12:12 | 03/12/21 08:30 | |
| 180-118348-10 | Dup-1 | Water | 03/10/21 00:00 | 03/12/21 08:30 | |
| 180-118348-11 | WGWC-16 | Water | 03/11/21 13:47 | 03/12/21 08:30 | |
| 180-118348-12 | WGWC-17 | Water | 03/11/21 12:10 | 03/12/21 08:30 | |
| 180-118348-13 | EB-1 | Water | 03/11/21 11:00 | 03/12/21 08:30 | |
| 180-118348-14 | EB-2 | Water | 03/11/21 13:55 | 03/12/21 08:30 | |
| 180-118348-15 | FB-1 | Water | 03/11/21 10:30 | 03/12/21 08:30 | |
| 180-118398-1 | WGWC-15 | Water | 03/12/21 11:57 | 03/13/21 09:00 | |
| 180-118398-2 | WGWC-10 | Water | 03/11/21 16:25 | 03/13/21 09:00 | |
| 180-118398-3 | WGWC-11 | Water | 03/12/21 11:54 | 03/13/21 09:00 | |
| 180-118398-4 | WGWC-13 | Water | 03/11/21 13:53 | 03/13/21 09:00 | |
| 180-118398-5 | WGWC-14A | Water | 03/11/21 15:16 | 03/13/21 09:00 | |
| 180-118398-6 | WGWC-9 | Water | 03/12/21 10:07 | 03/13/21 09:00 | |
| 180-118398-7 | WGWC-19 | Water | 03/11/21 14:55 | 03/13/21 09:00 | |
| 180-118398-8 | Dup-2 | Water | 03/11/21 00:00 | 03/13/21 09:00 | |
| 180-118398-9 | FB-2 | Water | 03/12/21 12:05 | 03/13/21 09:00 | |
| 180-118398-10 | WGWC-12 | Water | 03/12/21 10:59 | 03/13/21 09:00 | |

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

| Method | Method Description | Protocol | Laboratory |
|----------------|--|----------|------------|
| EPA 300.0 R2.1 | Anions, Ion Chromatography | EPA | TAL PIT |
| EPA 6020B | Metals (ICP/MS) | SW846 | TAL PIT |
| EPA 9034 | Sulfide, Acid soluble and Insoluble (Titrimetric) | SW846 | TAL PIT |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL PIT |
| SM2320 B | Alkalinity, Total | SM18 | TAL PIT |
| Field Sampling | Field Sampling | EPA | TAL PIT |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | TAL PIT |
| 9030B | Sulfide, Distillation (Acid Soluble and Insoluble) | SW846 | TAL PIT |

Protocol References:

EPA = US Environmental Protection Agency

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

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-118348-1

Date Collected: 03/11/21 09:35

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 01:22 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 11:28 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:10 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349927 | 03/18/21 18:31 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/26/21 03:09 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/11/21 09:35 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-2

Lab Sample ID: 180-118348-2

Date Collected: 03/10/21 08:55

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 03:27 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 11:47 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:18 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349759 | 03/17/21 19:05 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/25/21 19:38 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/10/21 08:55 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-3

Lab Sample ID: 180-118348-3

Date Collected: 03/10/21 10:54

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 03:45 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 11:50 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-118348-3

Date Collected: 03/10/21 10:54

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:21 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349759 | 03/17/21 19:05 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/25/21 19:47 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/10/21 10:54 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-4

Lab Sample ID: 180-118348-4

Date Collected: 03/10/21 12:17

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 04:03 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 11:53 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:24 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349759 | 03/17/21 19:05 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/25/21 19:55 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/10/21 12:17 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-5

Lab Sample ID: 180-118348-5

Date Collected: 03/10/21 17:05

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 04:21 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 11:55 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:26 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349759 | 03/17/21 19:05 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-118348-5

Date Collected: 03/10/21 17:05

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/25/21 20:05 | REI | TAL PIT |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/10/21 17:05 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-6

Lab Sample ID: 180-118348-6

Date Collected: 03/11/21 10:58

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 04:39 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 11:58 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:29 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349927 | 03/18/21 18:31 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/26/21 03:18 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/11/21 10:58 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-7

Lab Sample ID: 180-118348-7

Date Collected: 03/10/21 13:45

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 06:26 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 12:01 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:37 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349759 | 03/17/21 19:05 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/25/21 20:14 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/10/21 13:45 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-118348-8

Date Collected: 03/10/21 15:42

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 06:44 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 12:04 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:40 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 350091 | 03/19/21 19:08 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/25/21 20:43 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/10/21 15:42 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-8

Lab Sample ID: 180-118348-9

Date Collected: 03/11/21 12:12

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 02:51 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total/NA | Analysis | EPA 300.0 R2.1 | | 5 | | | 350116 | 03/21/21 03:09 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 12:21 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350601 | 03/24/21 11:38 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:43 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349927 | 03/18/21 18:31 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/26/21 03:28 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/11/21 12:12 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: Dup-1
Date Collected: 03/10/21 00:00
Date Received: 03/12/21 08:30

Lab Sample ID: 180-118348-10
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 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 04:57 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 12:29 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:45 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349921 | 03/18/21 17:41 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/25/21 21:01 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |

Client Sample ID: WGWC-16
Date Collected: 03/11/21 13:47
Date Received: 03/12/21 08:30

Lab Sample ID: 180-118348-11
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 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 07:02 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 12:32 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350601 | 03/24/21 11:43 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:48 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349927 | 03/18/21 18:31 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/26/21 03:37 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/11/21 13:47 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-17
Date Collected: 03/11/21 12:10
Date Received: 03/12/21 08:30

Lab Sample ID: 180-118348-12
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 07:19 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-17

Lab Sample ID: 180-118348-12

Date Collected: 03/11/21 12:10

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 12:34 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:51 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349927 | 03/18/21 18:31 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/26/21 03:46 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/11/21 12:10 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: EB-1

Lab Sample ID: 180-118348-13

Date Collected: 03/11/21 11:00

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 07:37 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 12:12 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:53 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349921 | 03/18/21 17:41 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/26/21 04:13 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |

Client Sample ID: EB-2

Lab Sample ID: 180-118348-14

Date Collected: 03/11/21 13:55

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 07:55 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 12:15 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:56 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: EB-2

Lab Sample ID: 180-118348-14

Date Collected: 03/11/21 13:55

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349921 | 03/18/21 17:41 | KMM | TAL PIT |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/26/21 04:29 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |

Client Sample ID: FB-1

Lab Sample ID: 180-118348-15

Date Collected: 03/11/21 10:30

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350116 | 03/21/21 08:13 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350102 | 03/20/21 21:24 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 350467 | 03/23/21 12:18 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 13:59 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349921 | 03/18/21 17:41 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350993 | 03/26/21 17:39 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |

Client Sample ID: WGWC-15

Lab Sample ID: 180-118398-1

Date Collected: 03/12/21 11:57

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350369 | 03/23/21 11:40 | SAT | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350579 | 03/24/21 11:35 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 351150 | 03/29/21 18:41 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 15:01 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 350089 | 03/19/21 19:01 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 351516 | 03/30/21 18:05 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/12/21 11:57 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-10

Lab Sample ID: 180-118398-2

Date Collected: 03/11/21 16:25

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 Instrument ID: CHICS2100B | | 1 | | | 350369 | 03/23/21 12:29 | SAT | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352257 | 04/07/21 13:55 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: DORY | | 1 | | | 352526 | 04/08/21 09:13 | RSK | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350579 | 03/24/21 11:35 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: NEMO | | 1 | | | 351150 | 03/29/21 18:44 | RJR | TAL PIT |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 Instrument ID: NOEQUIP | | 1 | | | 349551 | 03/15/21 15:04 | CMR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 349926 | 03/18/21 18:22 | KMM | TAL PIT |
| Total/NA | Analysis | SM2320 B Instrument ID: PCTITRATOR | | 1 | | | 350921 | 03/26/21 08:26 | REI | TAL PIT |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 349457 | 03/11/21 16:25 | FDS | TAL PIT |

Client Sample ID: WGWC-11

Lab Sample ID: 180-118398-3

Date Collected: 03/12/21 11:54

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 Instrument ID: CHICS2100B | | 1 | | | 350369 | 03/23/21 12:45 | SAT | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350579 | 03/24/21 11:35 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: NEMO | | 1 | | | 351150 | 03/29/21 18:47 | RJR | TAL PIT |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 Instrument ID: NOEQUIP | | 1 | | | 349551 | 03/15/21 15:06 | CMR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 350089 | 03/19/21 19:01 | KMM | TAL PIT |
| Total/NA | Analysis | SM2320 B Instrument ID: PCTITRATOR | | 1 | | | 351516 | 03/30/21 18:14 | REI | TAL PIT |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 349457 | 03/12/21 11:54 | FDS | TAL PIT |

Client Sample ID: WGWC-13

Lab Sample ID: 180-118398-4

Date Collected: 03/11/21 13:53

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 Instrument ID: CHICS2100B | | 1 | | | 350369 | 03/23/21 13:01 | SAT | TAL PIT |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-13

Lab Sample ID: 180-118398-4

Date Collected: 03/11/21 13:53

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350579 | 03/24/21 11:35 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 351150 | 03/29/21 18:50 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 15:09 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349926 | 03/18/21 18:22 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/26/21 08:34 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/11/21 13:53 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-14A

Lab Sample ID: 180-118398-5

Date Collected: 03/11/21 15:16

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350369 | 03/23/21 13:18 | SAT | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350579 | 03/24/21 11:35 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 351150 | 03/29/21 18:52 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 15:12 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349926 | 03/18/21 18:22 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/26/21 08:44 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/11/21 15:16 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-9

Lab Sample ID: 180-118398-6

Date Collected: 03/12/21 10:07

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350369 | 03/23/21 13:34 | SAT | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350579 | 03/24/21 11:35 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 351150 | 03/29/21 18:55 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-118398-6

Date Collected: 03/12/21 10:07

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 15:15 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 350089 | 03/19/21 19:01 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 351516 | 03/30/21 18:23 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/12/21 10:07 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-19

Lab Sample ID: 180-118398-7

Date Collected: 03/11/21 14:55

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350369 | 03/23/21 14:23 | SAT | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350579 | 03/24/21 11:35 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 351150 | 03/29/21 18:58 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 15:18 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349926 | 03/18/21 18:22 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 350921 | 03/26/21 08:53 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349457 | 03/11/21 14:55 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: Dup-2

Lab Sample ID: 180-118398-8

Date Collected: 03/11/21 00:00

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 350369 | 03/23/21 14:39 | SAT | TAL PIT |
| Instrument ID: CHICS2100B | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350579 | 03/24/21 11:35 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 351150 | 03/29/21 19:06 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 15:21 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349926 | 03/18/21 18:22 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: Dup-2
Date Collected: 03/11/21 00:00
Date Received: 03/13/21 09:00

Lab Sample ID: 180-118398-8
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 | SM2320 B | | 1 | | | 350921 | 03/26/21 09:02 | REI | TAL PIT |

Client Sample ID: FB-2
Date Collected: 03/12/21 12:05
Date Received: 03/13/21 09:00

Lab Sample ID: 180-118398-9
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 300.0 R2.1 Instrument ID: CHICS2100B | | 1 | | | 350369 | 03/23/21 14:56 | SAT | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350579 | 03/24/21 11:35 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: NEMO | | 1 | | | 351150 | 03/29/21 19:09 | RJR | TAL PIT |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349716 | 03/17/21 14:00 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 Instrument ID: NOEQUIP | | 1 | | | 349871 | 03/17/21 15:47 | CMR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 350089 | 03/19/21 19:01 | KMM | TAL PIT |
| Total/NA | Analysis | SM2320 B Instrument ID: PCTITRATOR | | 1 | | | 351516 | 03/30/21 18:31 | REI | TAL PIT |

Client Sample ID: WGWC-12
Date Collected: 03/12/21 10:59
Date Received: 03/13/21 09:00

Lab Sample ID: 180-118398-10
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 300.0 R2.1 Instrument ID: CHICS2100B | | 1 | | | 350369 | 03/23/21 15:12 | SAT | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 350579 | 03/24/21 11:35 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: NEMO | | 1 | | | 351150 | 03/29/21 19:12 | RJR | TAL PIT |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349716 | 03/17/21 14:00 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 Instrument ID: NOEQUIP | | 1 | | | 349871 | 03/17/21 15:56 | CMR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 350089 | 03/19/21 19:01 | KMM | TAL PIT |
| Total/NA | Analysis | SM2320 B Instrument ID: PCTITRATOR | | 1 | | | 351516 | 03/30/21 18:40 | REI | TAL PIT |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 349457 | 03/12/21 10:59 | FDS | TAL PIT |

Laboratory References:

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

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

CMR = Carl Reagle

KEM = Kimberly Mahoney

TJO = Tyler Oliver

Batch Type: Analysis

CMR = Carl Reagle

FDS = Sampler Field

KMM = Kendric Moore

REI = Rachel Innocenzi

RJR = Ron Rosenbaum

RSK = Robert Kurtz

SAT = Stephen Tallam



Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-118348-1

Date Collected: 03/11/21 09:35

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 4.5 | | 1.0 | 0.71 | mg/L | | | 03/21/21 01:22 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/21/21 01:22 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/21/21 01:22 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|----------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Barium | 0.046 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Beryllium | 0.00029 | J | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Calcium | 1.3 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Cobalt | 0.00081 | J | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Lithium | 0.0039 | J | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Thallium | 0.00045 | J | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Sodium | 3.3 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Potassium | 1.1 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Magnesium | 1.2 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |
| Manganese | 0.011 | | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 11:28 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:10 | 1 |
| Total Dissolved Solids | 24 | | 10 | 10 | mg/L | | | 03/18/21 18:31 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 7.8 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 03:09 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 7.8 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 03:09 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.26 | | | | SU | | | 03/11/21 09:35 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-118348-2

Date Collected: 03/10/21 08:55

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 2.6 | | 1.0 | 0.71 | mg/L | | | 03/21/21 03:27 | 1 |
| Fluoride | 0.045 | J | 0.10 | 0.026 | mg/L | | | 03/21/21 03:27 | 1 |
| Sulfate | 0.90 | J | 1.0 | 0.76 | mg/L | | | 03/21/21 03:27 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Arsenic | 0.00063 | J | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Barium | 0.024 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Beryllium | 0.00065 | J | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Boron | 0.039 | J | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Calcium | 11 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Cobalt | 0.00073 | J | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Lead | 0.00019 | J | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Lithium | 0.0075 | | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Selenium | <0.0015 | ^+ | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Thallium | 0.00073 | J | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Sodium | 9.2 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Potassium | 2.3 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Magnesium | 4.2 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |
| Manganese | 0.032 | | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 11:47 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:18 | 1 |
| Total Dissolved Solids | 100 | | 10 | 10 | mg/L | | | 03/17/21 19:05 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 61 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 19:38 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 61 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 19:38 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.11 | | | | SU | | | 03/10/21 08:55 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-118348-3

Date Collected: 03/10/21 10:54

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 1.8 | | 1.0 | 0.71 | mg/L | | | 03/21/21 03:45 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/21/21 03:45 | 1 |
| Sulfate | 0.91 | J | 1.0 | 0.76 | mg/L | | | 03/21/21 03:45 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Barium | 0.014 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Beryllium | 0.00019 | J | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Calcium | 1.9 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Selenium | <0.0015 | ^+ | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Thallium | 0.00028 | J | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Sodium | 2.6 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Potassium | 1.2 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Magnesium | 1.1 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |
| Manganese | 0.00099 | J | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 11:50 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:21 | 1 |
| Total Dissolved Solids | 20 | | 10 | 10 | mg/L | | | 03/17/21 19:05 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 11 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 19:47 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 11 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 19:47 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.49 | | | | SU | | | 03/10/21 10:54 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWA-4

Lab Sample ID: 180-118348-4

Date Collected: 03/10/21 12:17

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 1.2 | | 1.0 | 0.71 | mg/L | | | 03/21/21 04:03 | 1 |
| Fluoride | 0.12 | | 0.10 | 0.026 | mg/L | | | 03/21/21 04:03 | 1 |
| Sulfate | 8.1 | | 1.0 | 0.76 | mg/L | | | 03/21/21 04:03 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Arsenic | 0.00036 | J | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Barium | 0.0057 | J | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Calcium | 16 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Lithium | 0.0049 | J | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Selenium | <0.0015 | ^+ | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Thallium | 0.00017 | J | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Sodium | 7.2 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Potassium | 2.5 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Iron | 1.2 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Magnesium | 2.5 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |
| Manganese | 0.16 | | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 11:53 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:24 | 1 |
| Total Dissolved Solids | 100 | | 10 | 10 | mg/L | | | 03/17/21 19:05 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 61 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 19:55 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 61 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 19:55 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 7.19 | | | | SU | | | 03/10/21 12:17 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-118348-5

Date Collected: 03/10/21 17:05

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 1.8 | | 1.0 | 0.71 | mg/L | | | 03/21/21 04:21 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/21/21 04:21 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/21/21 04:21 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Barium | 0.016 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Calcium | 1.3 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Cobalt | 0.0011 | J | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Selenium | <0.0015 | ^+ | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Sodium | 1.5 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Potassium | 1.0 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Iron | 0.26 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Magnesium | 0.80 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |
| Manganese | 0.0071 | | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 11:55 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:26 | 1 |
| Total Dissolved Solids | 19 | | 10 | 10 | mg/L | | | 03/17/21 19:05 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 7.6 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 20:05 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 7.6 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 20:05 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.22 | | | | SU | | | 03/10/21 17:05 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-118348-6

Date Collected: 03/11/21 10:58

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 1.5 | | 1.0 | 0.71 | mg/L | | | 03/21/21 04:39 | 1 |
| Fluoride | 0.092 | J | 0.10 | 0.026 | mg/L | | | 03/21/21 04:39 | 1 |
| Sulfate | 8.4 | | 1.0 | 0.76 | mg/L | | | 03/21/21 04:39 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Barium | 0.0077 | J | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Calcium | 26 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Lithium | 0.0050 | | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Selenium | <0.0015 | ^+ | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Sodium | 5.2 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Potassium | 2.8 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Iron | 0.25 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Magnesium | 2.1 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |
| Manganese | 0.13 | | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 11:58 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:29 | 1 |
| Total Dissolved Solids | 110 | | 10 | 10 | mg/L | | | 03/18/21 18:31 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 86 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 03:18 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 86 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 03:18 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 7.93 | | | | SU | | | 03/11/21 10:58 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-118348-7

Date Collected: 03/10/21 13:45

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 1.9 | | 1.0 | 0.71 | mg/L | | | 03/21/21 06:26 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/21/21 06:26 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/21/21 06:26 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Barium | 0.011 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Calcium | 0.89 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Selenium | <0.0015 | ^+ | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Sodium | 2.4 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Potassium | 0.74 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Magnesium | 0.62 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |
| Manganese | 0.0022 | J | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 12:01 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:37 | 1 |
| Total Dissolved Solids | 20 | | 10 | 10 | mg/L | | | 03/17/21 19:05 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 7.5 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 20:14 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 7.5 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 20:14 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 4.96 | | | | SU | | | 03/10/21 13:45 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-118348-8

Date Collected: 03/10/21 15:42

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 1.9 | | 1.0 | 0.71 | mg/L | | | 03/21/21 06:44 | 1 |
| Fluoride | 0.046 | J | 0.10 | 0.026 | mg/L | | | 03/21/21 06:44 | 1 |
| Sulfate | 7.1 | | 1.0 | 0.76 | mg/L | | | 03/21/21 06:44 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Barium | 0.016 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Calcium | 7.7 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Cobalt | 0.0015 | J | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Selenium | <0.0015 | ^+ | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Sodium | 4.7 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Potassium | 2.8 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Iron | 0.28 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Magnesium | 1.2 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |
| Manganese | 0.17 | | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 12:04 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:40 | 1 |
| Total Dissolved Solids | 72 | H | 10 | 10 | mg/L | | | 03/19/21 19:08 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 31 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 20:43 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 31 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 20:43 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.80 | | | | SU | | | 03/10/21 15:42 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-118348-9

Date Collected: 03/11/21 12:12

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 110 | | 1.0 | 0.71 | mg/L | | | 03/21/21 02:51 | 1 |
| Fluoride | 0.16 | | 0.10 | 0.026 | mg/L | | | 03/21/21 02:51 | 1 |
| Sulfate | 220 | | 5.0 | 3.8 | mg/L | | | 03/21/21 03:09 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Arsenic | 0.00090 | J | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Beryllium | 0.0022 | J | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Boron | 2.4 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Calcium | 83 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Cobalt | 0.00043 | J | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Lithium | 0.013 | | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Selenium | 0.0038 | J | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/24/21 11:38 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Sodium | 40 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Potassium | 8.3 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Iron | 0.041 | J | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Magnesium | 21 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |
| Manganese | 0.015 | | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 12:21 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:43 | 1 |
| Total Dissolved Solids | 530 | | 10 | 10 | mg/L | | | 03/18/21 18:31 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 6.8 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 03:28 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 6.8 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 03:28 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.35 | | | | SU | | | 03/11/21 12:12 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: Dup-1

Lab Sample ID: 180-118348-10

Date Collected: 03/10/21 00:00

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 1.7 | | 1.0 | 0.71 | mg/L | | | 03/21/21 04:57 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/21/21 04:57 | 1 |
| Sulfate | 0.88 | J | 1.0 | 0.76 | mg/L | | | 03/21/21 04:57 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Barium | 0.013 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Calcium | 1.8 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Selenium | <0.0015 | ^+ | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Sodium | 2.7 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Potassium | 1.2 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Magnesium | 1.1 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |
| Manganese | 0.0012 | J | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 12:29 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:45 | 1 |
| Total Dissolved Solids | 29 | H | 10 | 10 | mg/L | | | 03/18/21 17:41 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 11 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 21:01 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 11 | H | 5.0 | 5.0 | mg/L | | | 03/25/21 21:01 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-16

Lab Sample ID: 180-118348-11

Date Collected: 03/11/21 13:47

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 49 | | 1.0 | 0.71 | mg/L | | | 03/21/21 07:02 | 1 |
| Fluoride | 0.061 | J | 0.10 | 0.026 | mg/L | | | 03/21/21 07:02 | 1 |
| Sulfate | 64 | | 1.0 | 0.76 | mg/L | | | 03/21/21 07:02 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Barium | 0.037 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Boron | 1.1 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Calcium | 32 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Cobalt | 0.00013 | J | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Lithium | 0.0050 | | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Selenium | 0.0023 | J | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/24/21 11:43 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Sodium | 13 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Potassium | 2.7 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Iron | 0.093 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Magnesium | 10 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |
| Manganese | 0.045 | | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 12:32 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:48 | 1 |
| Total Dissolved Solids | 190 | | 10 | 10 | mg/L | | | 03/18/21 18:31 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 8.3 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 03:37 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 8.3 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 03:37 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.21 | | | | SU | | | 03/11/21 13:47 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-17

Lab Sample ID: 180-118348-12

Date Collected: 03/11/21 12:10

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 1.3 | | 1.0 | 0.71 | mg/L | | | 03/21/21 07:19 | 1 |
| Fluoride | 0.050 | J | 0.10 | 0.026 | mg/L | | | 03/21/21 07:19 | 1 |
| Sulfate | 3.9 | | 1.0 | 0.76 | mg/L | | | 03/21/21 07:19 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Barium | 0.011 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Calcium | 5.7 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Cobalt | 0.00035 | J | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Lithium | 0.0049 | J | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Molybdenum | 0.0022 | J | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Selenium | <0.0015 | ^+ | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Sodium | 9.1 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Potassium | 1.5 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Iron | 0.38 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Magnesium | 3.5 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |
| Manganese | 0.014 | | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 12:34 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:51 | 1 |
| Total Dissolved Solids | 75 | | 10 | 10 | mg/L | | | 03/18/21 18:31 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 44 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 03:46 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 44 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 03:46 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.96 | | | | SU | | | 03/11/21 12:10 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: EB-1

Lab Sample ID: 180-118348-13

Date Collected: 03/11/21 11:00

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 03/21/21 07:37 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/21/21 07:37 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/21/21 07:37 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Selenium | <0.0015 | ^+ | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Sodium | <0.35 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Potassium | <0.16 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Magnesium | <0.083 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |
| Manganese | <0.00087 | | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 12:12 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:53 | 1 |
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/18/21 17:41 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 04:13 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 04:13 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: EB-2

Lab Sample ID: 180-118348-14

Date Collected: 03/11/21 13:55

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 03/21/21 07:55 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/21/21 07:55 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/21/21 07:55 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Selenium | <0.0015 | ^+ | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Sodium | <0.35 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Potassium | <0.16 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Magnesium | <0.083 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |
| Manganese | <0.00087 | | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 12:15 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:56 | 1 |
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/18/21 17:41 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 04:29 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 04:29 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: FB-1

Lab Sample ID: 180-118348-15

Date Collected: 03/11/21 10:30

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 03/21/21 08:13 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/21/21 08:13 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/21/21 08:13 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Selenium | <0.0015 | ^+ | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Sodium | <0.35 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Potassium | <0.16 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Magnesium | <0.083 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |
| Manganese | <0.00087 | | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 12:18 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:59 | 1 |
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/18/21 17:41 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 17:39 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 17:39 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-15

Lab Sample ID: 180-118398-1

Date Collected: 03/12/21 11:57

Matrix: Water

Date Received: 03/13/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 1.6 | | 1.0 | 0.71 | mg/L | | | 03/23/21 11:40 | 1 |
| Fluoride | 0.88 | | 0.10 | 0.026 | mg/L | | | 03/23/21 11:40 | 1 |
| Sulfate | 19 | | 1.0 | 0.76 | mg/L | | | 03/23/21 11:40 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Arsenic | 0.00084 | J | 0.0010 | 0.00031 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Barium | 0.028 | | 0.010 | 0.0016 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Calcium | 31 | | 0.50 | 0.13 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Lithium | 0.0096 | | 0.0050 | 0.0034 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Molybdenum | 0.0019 | J | 0.015 | 0.00061 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Sodium | 13 | | 0.50 | 0.35 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Potassium | 1.4 | | 0.50 | 0.16 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Iron | 0.032 | J | 0.050 | 0.020 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Magnesium | 5.1 | | 0.50 | 0.083 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |
| Manganese | 0.013 | | 0.0050 | 0.00087 | mg/L | | 03/24/21 11:35 | 03/29/21 18:41 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 15:01 | 1 |
| Total Dissolved Solids | 130 | | 10 | 10 | mg/L | | | 03/19/21 19:01 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 99 | H | 5.0 | 5.0 | mg/L | | | 03/30/21 18:05 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 99 | H | 5.0 | 5.0 | mg/L | | | 03/30/21 18:05 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 7.72 | | | | SU | | | 03/12/21 11:57 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-10

Lab Sample ID: 180-118398-2

Date Collected: 03/11/21 16:25

Matrix: Water

Date Received: 03/13/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 1.7 | | 1.0 | 0.71 | mg/L | | | 03/23/21 12:29 | 1 |
| Fluoride | 0.15 | | 0.10 | 0.026 | mg/L | | | 03/23/21 12:29 | 1 |
| Sulfate | 2.8 | | 1.0 | 0.76 | mg/L | | | 03/23/21 12:29 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Arsenic | 0.00031 | J | 0.0010 | 0.00031 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Barium | 0.033 | | 0.010 | 0.0016 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/24/21 11:35 | 03/29/21 18:44 | 1 |
| Calcium | 7.9 | | 0.50 | 0.13 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Chromium | 0.0023 | | 0.0020 | 0.0015 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Cobalt | 0.00058 | J | 0.0025 | 0.00013 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Lead | 0.00032 | J | 0.0010 | 0.00013 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Lithium | 0.0051 | | 0.0050 | 0.0034 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:44 | 1 |
| Sodium | 3.4 | | 0.50 | 0.35 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Potassium | 1.9 | | 0.50 | 0.16 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Magnesium | 1.9 | | 0.50 | 0.083 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |
| Manganese | 0.055 | | 0.0050 | 0.00087 | mg/L | | 04/07/21 13:55 | 04/08/21 09:13 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 15:04 | 1 |
| Total Dissolved Solids | 52 | | 10 | 10 | mg/L | | | 03/18/21 18:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 32 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 08:26 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 32 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 08:26 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.56 | | | | SU | | | 03/11/21 16:25 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-11

Lab Sample ID: 180-118398-3

Date Collected: 03/12/21 11:54

Matrix: Water

Date Received: 03/13/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3.6 | | 1.0 | 0.71 | mg/L | | | 03/23/21 12:45 | 1 |
| Fluoride | 0.044 | J | 0.10 | 0.026 | mg/L | | | 03/23/21 12:45 | 1 |
| Sulfate | 2.0 | | 1.0 | 0.76 | mg/L | | | 03/23/21 12:45 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Barium | 0.045 | | 0.010 | 0.0016 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Calcium | 1.6 | | 0.50 | 0.13 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Chromium | 0.0017 | J | 0.0020 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Cobalt | 0.0022 | J | 0.0025 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Lead | 0.00038 | J | 0.0010 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Sodium | 3.6 | | 0.50 | 0.35 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Potassium | 1.2 | | 0.50 | 0.16 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Iron | 0.55 | | 0.050 | 0.020 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Magnesium | 1.4 | | 0.50 | 0.083 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |
| Manganese | 0.10 | | 0.0050 | 0.00087 | mg/L | | 03/24/21 11:35 | 03/29/21 18:47 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 15:06 | 1 |
| Total Dissolved Solids | 27 | | 10 | 10 | mg/L | | | 03/19/21 19:01 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 9.7 | H | 5.0 | 5.0 | mg/L | | | 03/30/21 18:14 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 9.7 | H | 5.0 | 5.0 | mg/L | | | 03/30/21 18:14 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.46 | | | | SU | | | 03/12/21 11:54 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-13

Lab Sample ID: 180-118398-4

Date Collected: 03/11/21 13:53

Matrix: Water

Date Received: 03/13/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 1.2 | | 1.0 | 0.71 | mg/L | | | 03/23/21 13:01 | 1 |
| Fluoride | 0.18 | | 0.10 | 0.026 | mg/L | | | 03/23/21 13:01 | 1 |
| Sulfate | 2.9 | | 1.0 | 0.76 | mg/L | | | 03/23/21 13:01 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Arsenic | 0.00035 | J | 0.0010 | 0.00031 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Barium | 0.049 | | 0.010 | 0.0016 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Calcium | 4.0 | | 0.50 | 0.13 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Chromium | 0.0019 | J | 0.0020 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Lead | 0.00075 | J | 0.0010 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Lithium | 0.0037 | J | 0.0050 | 0.0034 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Molybdenum | 0.0013 | J | 0.015 | 0.00061 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Sodium | 10 | | 0.50 | 0.35 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Potassium | 1.8 | | 0.50 | 0.16 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Iron | 0.22 | | 0.050 | 0.020 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Magnesium | 0.59 | | 0.50 | 0.083 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |
| Manganese | 0.0074 | | 0.0050 | 0.00087 | mg/L | | 03/24/21 11:35 | 03/29/21 18:50 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 15:09 | 1 |
| Total Dissolved Solids | 63 | | 10 | 10 | mg/L | | | 03/18/21 18:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 33 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 08:34 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 33 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 08:34 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.95 | | | | SU | | | 03/11/21 13:53 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-118398-5

Date Collected: 03/11/21 15:16

Matrix: Water

Date Received: 03/13/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 2.6 | | 1.0 | 0.71 | mg/L | | | 03/23/21 13:18 | 1 |
| Fluoride | 0.040 | J | 0.10 | 0.026 | mg/L | | | 03/23/21 13:18 | 1 |
| Sulfate | 1.7 | | 1.0 | 0.76 | mg/L | | | 03/23/21 13:18 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Barium | 0.032 | | 0.010 | 0.0016 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Calcium | 0.79 | | 0.50 | 0.13 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Cobalt | 0.0037 | | 0.0025 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Lead | 0.00031 | J | 0.0010 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Lithium | 0.0035 | J | 0.0050 | 0.0034 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Thallium | 0.00019 | J | 0.0010 | 0.00015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Sodium | 5.5 | | 0.50 | 0.35 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Potassium | 1.8 | | 0.50 | 0.16 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Iron | 0.037 | J | 0.050 | 0.020 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Magnesium | 0.79 | | 0.50 | 0.083 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |
| Manganese | 0.092 | | 0.0050 | 0.00087 | mg/L | | 03/24/21 11:35 | 03/29/21 18:52 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 15:12 | 1 |
| Total Dissolved Solids | 24 | | 10 | 10 | mg/L | | | 03/18/21 18:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 32 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 08:44 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 32 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 08:44 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.10 | | | | SU | | | 03/11/21 15:16 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-118398-6

Date Collected: 03/12/21 10:07

Matrix: Water

Date Received: 03/13/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3.4 | | 1.0 | 0.71 | mg/L | | | 03/23/21 13:34 | 1 |
| Fluoride | 0.98 | | 0.10 | 0.026 | mg/L | | | 03/23/21 13:34 | 1 |
| Sulfate | 62 | | 1.0 | 0.76 | mg/L | | | 03/23/21 13:34 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Beryllium | 0.00034 | J | 0.0025 | 0.00018 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Boron | 0.64 | | 0.080 | 0.039 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Calcium | 11 | | 0.50 | 0.13 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Lithium | 0.034 | | 0.0050 | 0.0034 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Molybdenum | 0.0030 | J | 0.015 | 0.00061 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Selenium | 0.0034 | J | 0.0050 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Sodium | 26 | | 0.50 | 0.35 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Potassium | 1.3 | | 0.50 | 0.16 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Magnesium | 3.1 | | 0.50 | 0.083 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |
| Manganese | 0.0069 | | 0.0050 | 0.00087 | mg/L | | 03/24/21 11:35 | 03/29/21 18:55 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 15:15 | 1 |
| Total Dissolved Solids | 130 | | 10 | 10 | mg/L | | | 03/19/21 19:01 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 38 | H | 5.0 | 5.0 | mg/L | | | 03/30/21 18:23 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 38 | H | 5.0 | 5.0 | mg/L | | | 03/30/21 18:23 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.88 | | | | SU | | | 03/12/21 10:07 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-118398-7

Date Collected: 03/11/21 14:55

Matrix: Water

Date Received: 03/13/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 2.9 | | 1.0 | 0.71 | mg/L | | | 03/23/21 14:23 | 1 |
| Fluoride | 0.31 | | 0.10 | 0.026 | mg/L | | | 03/23/21 14:23 | 1 |
| Sulfate | 4.0 | | 1.0 | 0.76 | mg/L | | | 03/23/21 14:23 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Calcium | 15 | | 0.50 | 0.13 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Cobalt | 0.00022 | J | 0.0025 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Lithium | 0.051 | | 0.0050 | 0.0034 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Molybdenum | 0.0012 | J | 0.015 | 0.00061 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Sodium | 8.4 | | 0.50 | 0.35 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Potassium | 1.4 | | 0.50 | 0.16 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Iron | 0.053 | | 0.050 | 0.020 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Magnesium | 11 | | 0.50 | 0.083 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |
| Manganese | 0.020 | | 0.0050 | 0.00087 | mg/L | | 03/24/21 11:35 | 03/29/21 18:58 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 15:18 | 1 |
| Total Dissolved Solids | 100 | | 10 | 10 | mg/L | | | 03/18/21 18:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 88 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 08:53 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 88 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 08:53 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 7.12 | | | | SU | | | 03/11/21 14:55 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: Dup-2
 Date Collected: 03/11/21 00:00
 Date Received: 03/13/21 09:00

Lab Sample ID: 180-118398-8
 Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3.2 | | 1.0 | 0.71 | mg/L | | | 03/23/21 14:39 | 1 |
| Fluoride | 0.31 | | 0.10 | 0.026 | mg/L | | | 03/23/21 14:39 | 1 |
| Sulfate | 4.4 | | 1.0 | 0.76 | mg/L | | | 03/23/21 14:39 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Calcium | 16 | | 0.50 | 0.13 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Cobalt | 0.00021 | J | 0.0025 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Lithium | 0.052 | | 0.0050 | 0.0034 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Molybdenum | 0.0013 | J | 0.015 | 0.00061 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Sodium | 8.3 | | 0.50 | 0.35 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Potassium | 1.4 | | 0.50 | 0.16 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Iron | 0.098 | | 0.050 | 0.020 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Magnesium | 11 | | 0.50 | 0.083 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |
| Manganese | 0.020 | | 0.0050 | 0.00087 | mg/L | | 03/24/21 11:35 | 03/29/21 19:06 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 15:21 | 1 |
| Total Dissolved Solids | 100 | | 10 | 10 | mg/L | | | 03/18/21 18:22 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 90 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 09:02 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 90 | H | 5.0 | 5.0 | mg/L | | | 03/26/21 09:02 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: FB-2

Lab Sample ID: 180-118398-9

Date Collected: 03/12/21 12:05

Matrix: Water

Date Received: 03/13/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 03/23/21 14:56 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/23/21 14:56 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/23/21 14:56 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Sodium | <0.35 | | 0.50 | 0.35 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Potassium | <0.16 | | 0.50 | 0.16 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Magnesium | <0.083 | | 0.50 | 0.083 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |
| Manganese | <0.00087 | | 0.0050 | 0.00087 | mg/L | | 03/24/21 11:35 | 03/29/21 19:09 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/17/21 14:00 | 03/17/21 15:47 | 1 |
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/19/21 19:01 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | H | 5.0 | 5.0 | mg/L | | | 03/30/21 18:31 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | H | 5.0 | 5.0 | mg/L | | | 03/30/21 18:31 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-118398-10

Date Collected: 03/12/21 10:59

Matrix: Water

Date Received: 03/13/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3.5 | | 1.0 | 0.71 | mg/L | | | 03/23/21 15:12 | 1 |
| Fluoride | 0.096 | J | 0.10 | 0.026 | mg/L | | | 03/23/21 15:12 | 1 |
| Sulfate | 14 | | 1.0 | 0.76 | mg/L | | | 03/23/21 15:12 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Barium | 0.017 | | 0.010 | 0.0016 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Calcium | 15 | | 0.50 | 0.13 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Cobalt | 0.00042 | J | 0.0025 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Lithium | 0.0089 | | 0.0050 | 0.0034 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Molybdenum | 0.00062 | J | 0.015 | 0.00061 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Sodium | 6.3 | | 0.50 | 0.35 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Potassium | 2.2 | | 0.50 | 0.16 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Iron | 1.8 | | 0.050 | 0.020 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Magnesium | 3.5 | | 0.50 | 0.083 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |
| Manganese | 0.015 | | 0.0050 | 0.00087 | mg/L | | 03/24/21 11:35 | 03/29/21 19:12 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/17/21 14:00 | 03/17/21 15:56 | 1 |
| Total Dissolved Solids | 78 | | 10 | 10 | mg/L | | | 03/19/21 19:01 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 46 | H | 5.0 | 5.0 | mg/L | | | 03/30/21 18:40 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 46 | H | 5.0 | 5.0 | mg/L | | | 03/30/21 18:40 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.66 | | | | SU | | | 03/12/21 10:59 | 1 |

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-350116/55
Matrix: Water
Analysis Batch: 350116

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 03/20/21 23:52 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/20/21 23:52 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/20/21 23:52 | 1 |

Lab Sample ID: MB 180-350116/6
Matrix: Water
Analysis Batch: 350116

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 03/20/21 08:54 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/20/21 08:54 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/20/21 08:54 | 1 |

Lab Sample ID: LCS 180-350116/54
Matrix: Water
Analysis Batch: 350116

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0 | 52.5 | | mg/L | | 105 | 90 - 110 |
| Fluoride | 2.50 | 2.51 | | mg/L | | 100 | 90 - 110 |
| Sulfate | 50.0 | 52.2 | | mg/L | | 104 | 90 - 110 |

Lab Sample ID: 180-118348-1 MS
Matrix: Water
Analysis Batch: 350116

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 4.5 | | 50.0 | 54.8 | | mg/L | | 101 | 90 - 110 |
| Fluoride | <0.026 | | 2.50 | 2.45 | | mg/L | | 98 | 90 - 110 |
| Sulfate | <0.76 | | 50.0 | 50.0 | | mg/L | | 100 | 90 - 110 |

Lab Sample ID: 180-118348-1 MSD
Matrix: Water
Analysis Batch: 350116

Client Sample ID: WGWA-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 | 4.5 | | 50.0 | 55.1 | | mg/L | | 101 | 90 - 110 | 1 | 20 |
| Fluoride | <0.026 | | 2.50 | 2.47 | | mg/L | | 99 | 90 - 110 | 1 | 20 |
| Sulfate | <0.76 | | 50.0 | 50.3 | | mg/L | | 101 | 90 - 110 | 1 | 20 |

Lab Sample ID: 180-118348-10 MS
Matrix: Water
Analysis Batch: 350116

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 1.7 | | 50.0 | 52.4 | | mg/L | | 101 | 90 - 110 |
| Fluoride | <0.026 | | 2.50 | 2.45 | | mg/L | | 98 | 90 - 110 |
| Sulfate | 0.88 | J | 50.0 | 51.0 | | mg/L | | 100 | 90 - 110 |

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-118348-10 MSD
Matrix: Water
Analysis Batch: 350116

Client Sample ID: Dup-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 | 1.7 | | 50.0 | 52.3 | | mg/L | | 101 | 90 - 110 | 0 | 20 |
| Fluoride | <0.026 | | 2.50 | 2.44 | | mg/L | | 97 | 90 - 110 | 1 | 20 |
| Sulfate | 0.88 | J | 50.0 | 50.9 | | mg/L | | 100 | 90 - 110 | 0 | 20 |

Lab Sample ID: MB 180-350369/6
Matrix: Water
Analysis Batch: 350369

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 03/23/21 10:53 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/23/21 10:53 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/23/21 10:53 | 1 |

Lab Sample ID: LCS 180-350369/5
Matrix: Water
Analysis Batch: 350369

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 | 51.0 | | mg/L | | 102 | 90 - 110 |
| Fluoride | 2.50 | 2.63 | | mg/L | | 105 | 90 - 110 |
| Sulfate | 50.0 | 51.0 | | mg/L | | 102 | 90 - 110 |

Lab Sample ID: 180-118398-1 MS
Matrix: Water
Analysis Batch: 350369

Client Sample ID: WGWC-15
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 1.6 | | 50.0 | 53.9 | | mg/L | | 105 | 90 - 110 |
| Fluoride | 0.88 | | 2.50 | 3.33 | | mg/L | | 98 | 90 - 110 |
| Sulfate | 19 | | 50.0 | 68.6 | | mg/L | | 100 | 90 - 110 |

Lab Sample ID: 180-118398-1 MSD
Matrix: Water
Analysis Batch: 350369

Client Sample ID: WGWC-15
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 1.6 | | 50.0 | 51.9 | | mg/L | | 101 | 90 - 110 | 4 | 20 |
| Fluoride | 0.88 | | 2.50 | 3.26 | | mg/L | | 95 | 90 - 110 | 2 | 20 |
| Sulfate | 19 | | 50.0 | 67.2 | | mg/L | | 97 | 90 - 110 | 2 | 20 |

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

Lab Sample ID: MB 180-350102/1-A
Matrix: Water
Analysis Batch: 350467

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 350102

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

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

Lab Sample ID: MB 180-350102/1-A
Matrix: Water
Analysis Batch: 350467

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 350102

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Sodium | <0.35 | | 0.50 | 0.35 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Potassium | <0.16 | | 0.50 | 0.16 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Magnesium | <0.083 | | 0.50 | 0.083 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |
| Manganese | <0.00087 | | 0.0050 | 0.00087 | mg/L | | 03/20/21 21:24 | 03/23/21 11:22 | 1 |

Lab Sample ID: LCS 180-350102/2-A
Matrix: Water
Analysis Batch: 350467

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 350102

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|-------------|------------|---------------|------|---|------|--------------|
| Antimony | 0.250 | 0.239 | | mg/L | | 95 | 80 - 120 |
| Arsenic | 1.00 | 0.937 | | mg/L | | 94 | 80 - 120 |
| Barium | 1.00 | 0.994 | | mg/L | | 99 | 80 - 120 |
| Beryllium | 0.500 | 0.499 | | mg/L | | 100 | 80 - 120 |
| Boron | 1.25 | 1.24 | | mg/L | | 99 | 80 - 120 |
| Calcium | 25.0 | 26.1 | | mg/L | | 104 | 80 - 120 |
| Chromium | 0.500 | 0.489 | | mg/L | | 98 | 80 - 120 |
| Cobalt | 0.500 | 0.466 | | mg/L | | 93 | 80 - 120 |
| Lead | 0.500 | 0.487 | | mg/L | | 97 | 80 - 120 |
| Lithium | 0.500 | 0.499 | | mg/L | | 100 | 80 - 120 |
| Molybdenum | 0.500 | 0.498 | | mg/L | | 100 | 80 - 120 |
| Selenium | 1.00 | 1.07 | | mg/L | | 107 | 80 - 120 |
| Thallium | 1.00 | 0.946 | | mg/L | | 95 | 80 - 120 |
| Sodium | 25.0 | 26.7 | | mg/L | | 107 | 80 - 120 |
| Potassium | 25.0 | 22.6 | | mg/L | | 91 | 80 - 120 |
| Iron | 5.00 | 5.20 | | mg/L | | 104 | 80 - 120 |
| Magnesium | 25.0 | 25.7 | | mg/L | | 103 | 80 - 120 |
| Manganese | 0.500 | 0.474 | | mg/L | | 95 | 80 - 120 |

Lab Sample ID: 180-118348-1 MS
Matrix: Water
Analysis Batch: 350467

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 350102

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Antimony | <0.00038 | | 0.250 | 0.239 | | mg/L | | 96 | 75 - 125 |
| Arsenic | <0.00031 | | 1.00 | 0.944 | | mg/L | | 94 | 75 - 125 |
| Barium | 0.046 | | 1.00 | 1.05 | | mg/L | | 100 | 75 - 125 |
| Beryllium | 0.00029 | J | 0.500 | 0.491 | | mg/L | | 98 | 75 - 125 |

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

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

Lab Sample ID: 180-118348-1 MS
Matrix: Water
Analysis Batch: 350467

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 350102

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Boron | <0.039 | | 1.25 | 1.26 | | mg/L | | 101 | 75 - 125 |
| Calcium | 1.3 | | 25.0 | 27.3 | | mg/L | | 104 | 75 - 125 |
| Chromium | <0.0015 | | 0.500 | 0.489 | | mg/L | | 98 | 75 - 125 |
| Cobalt | 0.00081 | J | 0.500 | 0.470 | | mg/L | | 94 | 75 - 125 |
| Lead | <0.00013 | | 0.500 | 0.484 | | mg/L | | 97 | 75 - 125 |
| Lithium | 0.0039 | J | 0.500 | 0.497 | | mg/L | | 99 | 75 - 125 |
| Molybdenum | <0.00061 | | 0.500 | 0.497 | | mg/L | | 99 | 75 - 125 |
| Selenium | <0.0015 | | 1.00 | 1.09 | | mg/L | | 109 | 75 - 125 |
| Thallium | 0.00045 | J | 1.00 | 0.951 | | mg/L | | 95 | 75 - 125 |
| Sodium | 3.3 | | 25.0 | 29.6 | | mg/L | | 105 | 75 - 125 |
| Potassium | 1.1 | | 25.0 | 23.7 | | mg/L | | 90 | 75 - 125 |
| Iron | <0.020 | | 5.00 | 5.12 | | mg/L | | 102 | 75 - 125 |
| Magnesium | 1.2 | | 25.0 | 26.8 | | mg/L | | 103 | 75 - 125 |
| Manganese | 0.011 | | 0.500 | 0.490 | | mg/L | | 96 | 75 - 125 |

Lab Sample ID: 180-118348-1 MSD
Matrix: Water
Analysis Batch: 350467

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 350102

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Antimony | <0.00038 | | 0.250 | 0.235 | | mg/L | | 94 | 75 - 125 | 2 | 20 |
| Arsenic | <0.00031 | | 1.00 | 0.928 | | mg/L | | 93 | 75 - 125 | 2 | 20 |
| Barium | 0.046 | | 1.00 | 1.04 | | mg/L | | 99 | 75 - 125 | 2 | 20 |
| Beryllium | 0.00029 | J | 0.500 | 0.491 | | mg/L | | 98 | 75 - 125 | 0 | 20 |
| Boron | <0.039 | | 1.25 | 1.24 | | mg/L | | 100 | 75 - 125 | 1 | 20 |
| Calcium | 1.3 | | 25.0 | 27.0 | | mg/L | | 103 | 75 - 125 | 1 | 20 |
| Chromium | <0.0015 | | 0.500 | 0.488 | | mg/L | | 98 | 75 - 125 | 0 | 20 |
| Cobalt | 0.00081 | J | 0.500 | 0.461 | | mg/L | | 92 | 75 - 125 | 2 | 20 |
| Lead | <0.00013 | | 0.500 | 0.489 | | mg/L | | 98 | 75 - 125 | 1 | 20 |
| Lithium | 0.0039 | J | 0.500 | 0.494 | | mg/L | | 98 | 75 - 125 | 1 | 20 |
| Molybdenum | <0.00061 | | 0.500 | 0.491 | | mg/L | | 98 | 75 - 125 | 1 | 20 |
| Selenium | <0.0015 | | 1.00 | 1.08 | ^+ | mg/L | | 108 | 75 - 125 | 1 | 20 |
| Thallium | 0.00045 | J | 1.00 | 0.954 | | mg/L | | 95 | 75 - 125 | 0 | 20 |
| Sodium | 3.3 | | 25.0 | 29.9 | | mg/L | | 106 | 75 - 125 | 1 | 20 |
| Potassium | 1.1 | | 25.0 | 23.5 | | mg/L | | 90 | 75 - 125 | 1 | 20 |
| Iron | <0.020 | | 5.00 | 5.10 | | mg/L | | 102 | 75 - 125 | 0 | 20 |
| Magnesium | 1.2 | | 25.0 | 26.3 | | mg/L | | 101 | 75 - 125 | 2 | 20 |
| Manganese | 0.011 | | 0.500 | 0.484 | | mg/L | | 95 | 75 - 125 | 1 | 20 |

Lab Sample ID: MB 180-350579/1-A
Matrix: Water
Analysis Batch: 351150

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 350579

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

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

Lab Sample ID: MB 180-350579/1-A
Matrix: Water
Analysis Batch: 351150

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 350579

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Sodium | <0.35 | | 0.50 | 0.35 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Potassium | <0.16 | | 0.50 | 0.16 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Magnesium | <0.083 | | 0.50 | 0.083 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |
| Manganese | <0.00087 | | 0.0050 | 0.00087 | mg/L | | 03/24/21 11:35 | 03/29/21 18:05 | 1 |

Lab Sample ID: LCS 180-350579/2-A
Matrix: Water
Analysis Batch: 351150

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 350579

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|-------------|------------|---------------|------|---|------|--------------|
| Antimony | 0.250 | 0.252 | | mg/L | | 101 | 80 - 120 |
| Arsenic | 1.00 | 1.03 | | mg/L | | 103 | 80 - 120 |
| Barium | 1.00 | 1.07 | | mg/L | | 107 | 80 - 120 |
| Beryllium | 0.500 | 0.528 | | mg/L | | 106 | 80 - 120 |
| Boron | 1.25 | 1.23 | | mg/L | | 98 | 80 - 120 |
| Calcium | 25.0 | 27.3 | | mg/L | | 109 | 80 - 120 |
| Chromium | 0.500 | 0.538 | | mg/L | | 108 | 80 - 120 |
| Cobalt | 0.500 | 0.529 | | mg/L | | 106 | 80 - 120 |
| Lead | 0.500 | 0.556 | | mg/L | | 111 | 80 - 120 |
| Lithium | 0.500 | 0.528 | | mg/L | | 106 | 80 - 120 |
| Molybdenum | 0.500 | 0.564 | | mg/L | | 113 | 80 - 120 |
| Selenium | 1.00 | 1.15 | | mg/L | | 115 | 80 - 120 |
| Thallium | 1.00 | 1.12 | | mg/L | | 112 | 80 - 120 |
| Sodium | 25.0 | 28.7 | | mg/L | | 115 | 80 - 120 |
| Potassium | 25.0 | 24.6 | | mg/L | | 98 | 80 - 120 |
| Iron | 5.00 | 4.73 | | mg/L | | 95 | 80 - 120 |
| Magnesium | 25.0 | 27.1 | | mg/L | | 109 | 80 - 120 |
| Manganese | 0.500 | 0.524 | | mg/L | | 105 | 80 - 120 |

Lab Sample ID: MB 180-352257/1-A
Matrix: Water
Analysis Batch: 352526

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 352257

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.00038 | | 0.0020 | 0.00038 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Arsenic | <0.00031 | | 0.0010 | 0.00031 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Barium | <0.0016 | | 0.010 | 0.0016 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Beryllium | <0.00018 | | 0.0025 | 0.00018 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Chromium | <0.0015 | | 0.0020 | 0.0015 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

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

Lab Sample ID: MB 180-352257/1-A
Matrix: Water
Analysis Batch: 352526

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 352257

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Cobalt | <0.00013 | | 0.0025 | 0.00013 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Lead | <0.00013 | | 0.0010 | 0.00013 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Molybdenum | <0.00061 | | 0.015 | 0.00061 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Selenium | <0.0015 | | 0.0050 | 0.0015 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Thallium | <0.00015 | | 0.0010 | 0.00015 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Sodium | <0.35 | | 0.50 | 0.35 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Potassium | <0.16 | | 0.50 | 0.16 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Magnesium | <0.083 | | 0.50 | 0.083 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |
| Manganese | <0.00087 | | 0.0050 | 0.00087 | mg/L | | 04/07/21 13:55 | 04/08/21 08:53 | 1 |

Lab Sample ID: LCS 180-352257/2-A
Matrix: Water
Analysis Batch: 352526

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 352257

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|-------------|------------|---------------|------|---|------|--------------|
| Antimony | 0.250 | 0.229 | | mg/L | | 91 | 80 - 120 |
| Arsenic | 1.00 | 0.958 | | mg/L | | 96 | 80 - 120 |
| Barium | 1.00 | 0.973 | | mg/L | | 97 | 80 - 120 |
| Beryllium | 0.500 | 0.511 | | mg/L | | 102 | 80 - 120 |
| Calcium | 25.0 | 28.4 | | mg/L | | 114 | 80 - 120 |
| Chromium | 0.500 | 0.495 | | mg/L | | 99 | 80 - 120 |
| Cobalt | 0.500 | 0.490 | | mg/L | | 98 | 80 - 120 |
| Lead | 0.500 | 0.492 | | mg/L | | 98 | 80 - 120 |
| Lithium | 0.500 | 0.496 | | mg/L | | 99 | 80 - 120 |
| Molybdenum | 0.500 | 0.498 | | mg/L | | 100 | 80 - 120 |
| Selenium | 1.00 | 0.994 | | mg/L | | 99 | 80 - 120 |
| Thallium | 1.00 | 1.06 | | mg/L | | 106 | 80 - 120 |
| Sodium | 25.0 | 24.8 | | mg/L | | 99 | 80 - 120 |
| Potassium | 25.0 | 24.6 | | mg/L | | 98 | 80 - 120 |
| Iron | 5.00 | 5.09 | | mg/L | | 102 | 80 - 120 |
| Magnesium | 25.0 | 25.2 | | mg/L | | 101 | 80 - 120 |
| Manganese | 0.500 | 0.492 | | mg/L | | 98 | 80 - 120 |

Lab Sample ID: LCSD 180-352257/3-A
Matrix: Water
Analysis Batch: 352526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 352257

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Antimony | 0.250 | 0.232 | | mg/L | | 93 | 80 - 120 | 2 | 20 |
| Arsenic | 1.00 | 0.988 | | mg/L | | 99 | 80 - 120 | 3 | 20 |
| Barium | 1.00 | 0.984 | | mg/L | | 98 | 80 - 120 | 1 | 20 |
| Beryllium | 0.500 | 0.506 | | mg/L | | 101 | 80 - 120 | 1 | 20 |
| Calcium | 25.0 | 29.4 | | mg/L | | 118 | 80 - 120 | 4 | 20 |
| Chromium | 0.500 | 0.498 | | mg/L | | 100 | 80 - 120 | 1 | 20 |
| Cobalt | 0.500 | 0.503 | | mg/L | | 101 | 80 - 120 | 3 | 20 |
| Lead | 0.500 | 0.497 | | mg/L | | 99 | 80 - 120 | 1 | 20 |
| Lithium | 0.500 | 0.496 | | mg/L | | 99 | 80 - 120 | 0 | 20 |

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

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

Lab Sample ID: LCSD 180-352257/3-A
Matrix: Water
Analysis Batch: 352526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 352257

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Molybdenum | 0.500 | 0.512 | | mg/L | | 102 | 80 - 120 | 3 | 20 |
| Selenium | 1.00 | 0.998 | | mg/L | | 100 | 80 - 120 | 0 | 20 |
| Thallium | 1.00 | 1.06 | | mg/L | | 106 | 80 - 120 | 0 | 20 |
| Sodium | 25.0 | 25.5 | | mg/L | | 102 | 80 - 120 | 3 | 20 |
| Potassium | 25.0 | 24.9 | | mg/L | | 99 | 80 - 120 | 1 | 20 |
| Iron | 5.00 | 5.07 | | mg/L | | 101 | 80 - 120 | 0 | 20 |
| Magnesium | 25.0 | 25.7 | | mg/L | | 103 | 80 - 120 | 2 | 20 |
| Manganese | 0.500 | 0.498 | | mg/L | | 100 | 80 - 120 | 1 | 20 |

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-349361/1-A
Matrix: Water
Analysis Batch: 349549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349361

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:05 | 1 |

Lab Sample ID: LCS 180-349361/2-A
Matrix: Water
Analysis Batch: 349549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349361

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Sulfide | 12.7 | 11.2 | | mg/L | | 88 | 85 - 115 |

Lab Sample ID: 180-118348-1 MS
Matrix: Water
Analysis Batch: 349549

Client Sample ID: WGWA-1
Prep Type: Total/NA
Prep Batch: 349361

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Sulfide | <2.1 | | 12.7 | 10.5 | | mg/L | | 83 | 75 - 125 |

Lab Sample ID: 180-118348-1 MSD
Matrix: Water
Analysis Batch: 349549

Client Sample ID: WGWA-1
Prep Type: Total/NA
Prep Batch: 349361

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Sulfide | <2.1 | | 12.7 | 10.2 | | mg/L | | 80 | 75 - 125 | 3 | 20 |

Lab Sample ID: MB 180-349362/1-A
Matrix: Water
Analysis Batch: 349551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349362

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 14:20 | 1 |

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 180-349362/2-A
Matrix: Water
Analysis Batch: 349551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349362
%Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------|-------------|------------|---------------|------|---|------|----------|
| Sulfide | 12.7 | 12.1 | | mg/L | | 95 | 85 - 115 |

Lab Sample ID: MB 180-349716/1-A
Matrix: Water
Analysis Batch: 349871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349716

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/17/21 14:00 | 03/17/21 15:41 | 1 |

Lab Sample ID: LCS 180-349716/2-A
Matrix: Water
Analysis Batch: 349871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349716
%Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------|-------------|------------|---------------|------|---|------|----------|
| Sulfide | 12.8 | 11.3 | | mg/L | | 88 | 85 - 115 |

Lab Sample ID: 180-118398-9 MS
Matrix: Water
Analysis Batch: 349871

Client Sample ID: FB-2
Prep Type: Total/NA
Prep Batch: 349716
%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Sulfide | <2.1 | | 12.8 | 11.3 | | mg/L | | 88 | 75 - 125 |

Lab Sample ID: 180-118398-9 MSD
Matrix: Water
Analysis Batch: 349871

Client Sample ID: FB-2
Prep Type: Total/NA
Prep Batch: 349716
%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-------|
| Sulfide | <2.1 | | 12.8 | 10.7 | | mg/L | | 83 | 75 - 125 | 6 | 20 |

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

Lab Sample ID: MB 180-349759/2
Matrix: Water
Analysis Batch: 349759

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/17/21 19:05 | 1 |

Lab Sample ID: LCS 180-349759/1
Matrix: Water
Analysis Batch: 349759

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|------------------------|-------------|------------|---------------|------|---|------|----------|
| Total Dissolved Solids | 457 | 436 | | mg/L | | 95 | 80 - 120 |

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

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

Lab Sample ID: MB 180-349921/2
Matrix: Water
Analysis Batch: 349921

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/18/21 17:41 | 1 |

Lab Sample ID: LCS 180-349921/1
Matrix: Water
Analysis Batch: 349921

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 457 | 446 | | mg/L | | 98 | 80 - 120 |

Lab Sample ID: MB 180-349926/2
Matrix: Water
Analysis Batch: 349926

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/18/21 18:22 | 1 |

Lab Sample ID: LCS 180-349926/1
Matrix: Water
Analysis Batch: 349926

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 457 | 412 | | mg/L | | 90 | 80 - 120 |

Lab Sample ID: 180-118398-5 DU
Matrix: Water
Analysis Batch: 349926

Client Sample ID: WGWC-14A
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 24 | | 22.0 | | mg/L | | 4 | 10 |

Lab Sample ID: MB 180-349927/2
Matrix: Water
Analysis Batch: 349927

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/18/21 18:31 | 1 |

Lab Sample ID: LCS 180-349927/1
Matrix: Water
Analysis Batch: 349927

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 457 | 430 | | mg/L | | 94 | 80 - 120 |

Lab Sample ID: MB 180-350089/2
Matrix: Water
Analysis Batch: 350089

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/19/21 19:01 | 1 |

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

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

Lab Sample ID: LCS 180-350089/1
Matrix: Water
Analysis Batch: 350089

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 457 | 472 | | mg/L | | 103 | 80 - 120 |

Lab Sample ID: MB 180-350091/2
Matrix: Water
Analysis Batch: 350091

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/19/21 19:08 | 1 |

Lab Sample ID: LCS 180-350091/1
Matrix: Water
Analysis Batch: 350091

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 457 | 444 | | mg/L | | 97 | 80 - 120 |

Lab Sample ID: 180-118348-8 DU
Matrix: Water
Analysis Batch: 350091

Client Sample ID: WGWA-18
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Total Dissolved Solids | 72 | H | 73.0 | | mg/L | | 1 | 10 |

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-350921/100
Matrix: Water
Analysis Batch: 350921

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/25/21 19:12 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/25/21 19:12 | 1 |

Lab Sample ID: MB 180-350921/148
Matrix: Water
Analysis Batch: 350921

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/26/21 02:42 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/26/21 02:42 | 1 |

Lab Sample ID: MB 180-350921/171
Matrix: Water
Analysis Batch: 350921

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/26/21 06:16 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/26/21 06:16 | 1 |

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-350921/147
Matrix: Water
Analysis Batch: 350921

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 230 | | mg/L | | 92 | 90 - 110 |

Lab Sample ID: LCS 180-350921/170
Matrix: Water
Analysis Batch: 350921

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 227 | | mg/L | | 91 | 90 - 110 |

Lab Sample ID: LCS 180-350921/99
Matrix: Water
Analysis Batch: 350921

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 226 | | mg/L | | 91 | 90 - 110 |

Lab Sample ID: LLCS 180-350921/169
Matrix: Water
Analysis Batch: 350921

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

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------------|-------------|-------------|----------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 20.0 | 21.6 | | mg/L | | 108 | 90 - 110 |

Lab Sample ID: LLCS 180-350921/98
Matrix: Water
Analysis Batch: 350921

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

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------------|-------------|-------------|----------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 20.0 | 20.2 | | mg/L | | 101 | 90 - 110 |

Lab Sample ID: 180-118348-8 DU
Matrix: Water
Analysis Batch: 350921

Client Sample ID: WGWA-18
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 31 | H | 30.5 | | mg/L | | 3 | 20 |
| Bicarbonate Alkalinity as CaCO3 | 31 | H | 30.5 | | mg/L | | 3 | 20 |

Lab Sample ID: 180-118348-13 DU
Matrix: Water
Analysis Batch: 350921

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

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | H | <5.0 | | mg/L | | NC | 20 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | H | <5.0 | | mg/L | | NC | 20 |

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-350993/87
Matrix: Water
Analysis Batch: 350993

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/26/21 17:31 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/26/21 17:31 | 1 |

Lab Sample ID: LCS 180-350993/86
Matrix: Water
Analysis Batch: 350993

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 225 | | mg/L | | 90 | 90 - 110 |

Lab Sample ID: LLCS 180-350993/85
Matrix: Water
Analysis Batch: 350993

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

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------------|-------------|-------------|----------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 20.0 | 20.7 | | mg/L | | 103 | 90 - 110 |

Lab Sample ID: 180-118348-15 DU
Matrix: Water
Analysis Batch: 350993

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

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | H | <5.0 | | mg/L | | NC | 20 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | H | <5.0 | | mg/L | | NC | 20 |

Lab Sample ID: MB 180-351516/6
Matrix: Water
Analysis Batch: 351516

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/30/21 15:56 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/30/21 15:56 | 1 |

Lab Sample ID: LCS 180-351516/5
Matrix: Water
Analysis Batch: 351516

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 229 | | mg/L | | 91 | 90 - 110 |

Lab Sample ID: LLCS 180-351516/4
Matrix: Water
Analysis Batch: 351516

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

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------------|-------------|-------------|----------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 20.0 | 21.2 | | mg/L | | 106 | 90 - 110 |

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

HPLC/IC

Analysis Batch: 350116

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------------|------------|
| 180-118348-1 | WGWA-1 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-2 | WGWA-2 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-3 | WGWA-3 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-4 | WGWA-4 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-5 | WGWA-5 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-6 | WGWA-6 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-7 | WGWA-7 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-8 | WGWA-18 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-9 | WGWC-8 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-9 | WGWC-8 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-10 | Dup-1 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-11 | WGWC-16 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-12 | WGWC-17 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-13 | EB-1 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-14 | EB-2 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-15 | FB-1 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 180-350116/55 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 180-350116/6 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 180-350116/54 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-1 MS | WGWA-1 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-1 MSD | WGWA-1 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-10 MS | Dup-1 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118348-10 MSD | Dup-1 | Total/NA | Water | EPA 300.0 R2.1 | |

Analysis Batch: 350369

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------------|------------|
| 180-118398-1 | WGWC-15 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118398-2 | WGWC-10 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118398-3 | WGWC-11 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118398-4 | WGWC-13 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118398-5 | WGWC-14A | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118398-6 | WGWC-9 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118398-7 | WGWC-19 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118398-8 | Dup-2 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118398-9 | FB-2 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118398-10 | WGWC-12 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 180-350369/6 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 180-350369/5 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118398-1 MS | WGWC-15 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118398-1 MSD | WGWC-15 | Total/NA | Water | EPA 300.0 R2.1 | |

Metals

Prep Batch: 350102

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 180-118348-1 | WGWA-1 | Total Recoverable | Water | 3005A | |
| 180-118348-2 | WGWA-2 | Total Recoverable | Water | 3005A | |
| 180-118348-3 | WGWA-3 | Total Recoverable | Water | 3005A | |
| 180-118348-4 | WGWA-4 | Total Recoverable | Water | 3005A | |
| 180-118348-5 | WGWA-5 | Total Recoverable | Water | 3005A | |
| 180-118348-6 | WGWA-6 | Total Recoverable | Water | 3005A | |

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Metals (Continued)

Prep Batch: 350102 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-118348-7 | WGWA-7 | Total Recoverable | Water | 3005A | |
| 180-118348-8 | WGWA-18 | Total Recoverable | Water | 3005A | |
| 180-118348-9 | WGWC-8 | Total Recoverable | Water | 3005A | |
| 180-118348-10 | Dup-1 | Total Recoverable | Water | 3005A | |
| 180-118348-11 | WGWC-16 | Total Recoverable | Water | 3005A | |
| 180-118348-12 | WGWC-17 | Total Recoverable | Water | 3005A | |
| 180-118348-13 | EB-1 | Total Recoverable | Water | 3005A | |
| 180-118348-14 | EB-2 | Total Recoverable | Water | 3005A | |
| 180-118348-15 | FB-1 | Total Recoverable | Water | 3005A | |
| MB 180-350102/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 180-350102/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 180-118348-1 MS | WGWA-1 | Total Recoverable | Water | 3005A | |
| 180-118348-1 MSD | WGWA-1 | Total Recoverable | Water | 3005A | |

Analysis Batch: 350467

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|-----------|------------|
| 180-118348-1 | WGWA-1 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-2 | WGWA-2 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-3 | WGWA-3 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-4 | WGWA-4 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-5 | WGWA-5 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-6 | WGWA-6 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-7 | WGWA-7 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-8 | WGWA-18 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-9 | WGWC-8 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-10 | Dup-1 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-11 | WGWC-16 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-12 | WGWC-17 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-13 | EB-1 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-14 | EB-2 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-15 | FB-1 | Total Recoverable | Water | EPA 6020B | 350102 |
| MB 180-350102/1-A | Method Blank | Total Recoverable | Water | EPA 6020B | 350102 |
| LCS 180-350102/2-A | Lab Control Sample | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-1 MS | WGWA-1 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-1 MSD | WGWA-1 | Total Recoverable | Water | EPA 6020B | 350102 |

Prep Batch: 350579

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-118398-1 | WGWC-15 | Total Recoverable | Water | 3005A | |
| 180-118398-2 | WGWC-10 | Total Recoverable | Water | 3005A | |
| 180-118398-3 | WGWC-11 | Total Recoverable | Water | 3005A | |
| 180-118398-4 | WGWC-13 | Total Recoverable | Water | 3005A | |
| 180-118398-5 | WGWC-14A | Total Recoverable | Water | 3005A | |
| 180-118398-6 | WGWC-9 | Total Recoverable | Water | 3005A | |
| 180-118398-7 | WGWC-19 | Total Recoverable | Water | 3005A | |
| 180-118398-8 | Dup-2 | Total Recoverable | Water | 3005A | |
| 180-118398-9 | FB-2 | Total Recoverable | Water | 3005A | |
| 180-118398-10 | WGWC-12 | Total Recoverable | Water | 3005A | |
| MB 180-350579/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 180-350579/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

Metals

Analysis Batch: 350601

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|-----------|------------|
| 180-118348-9 | WGWC-8 | Total Recoverable | Water | EPA 6020B | 350102 |
| 180-118348-11 | WGWC-16 | Total Recoverable | Water | EPA 6020B | 350102 |

Analysis Batch: 351150

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|-----------|------------|
| 180-118398-1 | WGWC-15 | Total Recoverable | Water | EPA 6020B | 350579 |
| 180-118398-2 | WGWC-10 | Total Recoverable | Water | EPA 6020B | 350579 |
| 180-118398-3 | WGWC-11 | Total Recoverable | Water | EPA 6020B | 350579 |
| 180-118398-4 | WGWC-13 | Total Recoverable | Water | EPA 6020B | 350579 |
| 180-118398-5 | WGWC-14A | Total Recoverable | Water | EPA 6020B | 350579 |
| 180-118398-6 | WGWC-9 | Total Recoverable | Water | EPA 6020B | 350579 |
| 180-118398-7 | WGWC-19 | Total Recoverable | Water | EPA 6020B | 350579 |
| 180-118398-8 | Dup-2 | Total Recoverable | Water | EPA 6020B | 350579 |
| 180-118398-9 | FB-2 | Total Recoverable | Water | EPA 6020B | 350579 |
| 180-118398-10 | WGWC-12 | Total Recoverable | Water | EPA 6020B | 350579 |
| MB 180-350579/1-A | Method Blank | Total Recoverable | Water | EPA 6020B | 350579 |
| LCS 180-350579/2-A | Lab Control Sample | Total Recoverable | Water | EPA 6020B | 350579 |

Prep Batch: 352257

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-------------------|--------|--------|------------|
| 180-118398-2 | WGWC-10 | Total Recoverable | Water | 3005A | |
| MB 180-352257/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 180-352257/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| LCSD 180-352257/3-A | Lab Control Sample Dup | Total Recoverable | Water | 3005A | |

Analysis Batch: 352526

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-------------------|--------|-----------|------------|
| 180-118398-2 | WGWC-10 | Total Recoverable | Water | EPA 6020B | 352257 |
| MB 180-352257/1-A | Method Blank | Total Recoverable | Water | EPA 6020B | 352257 |
| LCS 180-352257/2-A | Lab Control Sample | Total Recoverable | Water | EPA 6020B | 352257 |
| LCSD 180-352257/3-A | Lab Control Sample Dup | Total Recoverable | Water | EPA 6020B | 352257 |

General Chemistry

Prep Batch: 349361

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 180-118348-1 | WGWA-1 | Total/NA | Water | 9030B | |
| 180-118348-2 | WGWA-2 | Total/NA | Water | 9030B | |
| 180-118348-3 | WGWA-3 | Total/NA | Water | 9030B | |
| 180-118348-4 | WGWA-4 | Total/NA | Water | 9030B | |
| 180-118348-5 | WGWA-5 | Total/NA | Water | 9030B | |
| 180-118348-6 | WGWA-6 | Total/NA | Water | 9030B | |
| 180-118348-7 | WGWA-7 | Total/NA | Water | 9030B | |
| 180-118348-8 | WGWA-18 | Total/NA | Water | 9030B | |
| 180-118348-9 | WGWC-8 | Total/NA | Water | 9030B | |
| 180-118348-10 | Dup-1 | Total/NA | Water | 9030B | |
| 180-118348-11 | WGWC-16 | Total/NA | Water | 9030B | |
| 180-118348-12 | WGWC-17 | Total/NA | Water | 9030B | |
| 180-118348-13 | EB-1 | Total/NA | Water | 9030B | |
| 180-118348-14 | EB-2 | Total/NA | Water | 9030B | |
| 180-118348-15 | FB-1 | Total/NA | Water | 9030B | |

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

General Chemistry (Continued)

Prep Batch: 349361 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| MB 180-349361/1-A | Method Blank | Total/NA | Water | 9030B | |
| LCS 180-349361/2-A | Lab Control Sample | Total/NA | Water | 9030B | |
| 180-118348-1 MS | WGWA-1 | Total/NA | Water | 9030B | |
| 180-118348-1 MSD | WGWA-1 | Total/NA | Water | 9030B | |

Prep Batch: 349362

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-118398-1 | WGWC-15 | Total/NA | Water | 9030B | |
| 180-118398-2 | WGWC-10 | Total/NA | Water | 9030B | |
| 180-118398-3 | WGWC-11 | Total/NA | Water | 9030B | |
| 180-118398-4 | WGWC-13 | Total/NA | Water | 9030B | |
| 180-118398-5 | WGWC-14A | Total/NA | Water | 9030B | |
| 180-118398-6 | WGWC-9 | Total/NA | Water | 9030B | |
| 180-118398-7 | WGWC-19 | Total/NA | Water | 9030B | |
| 180-118398-8 | Dup-2 | Total/NA | Water | 9030B | |
| MB 180-349362/1-A | Method Blank | Total/NA | Water | 9030B | |
| LCS 180-349362/2-A | Lab Control Sample | Total/NA | Water | 9030B | |

Analysis Batch: 349549

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| 180-118348-1 | WGWA-1 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-2 | WGWA-2 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-3 | WGWA-3 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-4 | WGWA-4 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-5 | WGWA-5 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-6 | WGWA-6 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-7 | WGWA-7 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-8 | WGWA-18 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-9 | WGWC-8 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-10 | Dup-1 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-11 | WGWC-16 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-12 | WGWC-17 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-13 | EB-1 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-14 | EB-2 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-15 | FB-1 | Total/NA | Water | EPA 9034 | 349361 |
| MB 180-349361/1-A | Method Blank | Total/NA | Water | EPA 9034 | 349361 |
| LCS 180-349361/2-A | Lab Control Sample | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-1 MS | WGWA-1 | Total/NA | Water | EPA 9034 | 349361 |
| 180-118348-1 MSD | WGWA-1 | Total/NA | Water | EPA 9034 | 349361 |

Analysis Batch: 349551

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|----------|------------|
| 180-118398-1 | WGWC-15 | Total/NA | Water | EPA 9034 | 349362 |
| 180-118398-2 | WGWC-10 | Total/NA | Water | EPA 9034 | 349362 |
| 180-118398-3 | WGWC-11 | Total/NA | Water | EPA 9034 | 349362 |
| 180-118398-4 | WGWC-13 | Total/NA | Water | EPA 9034 | 349362 |
| 180-118398-5 | WGWC-14A | Total/NA | Water | EPA 9034 | 349362 |
| 180-118398-6 | WGWC-9 | Total/NA | Water | EPA 9034 | 349362 |
| 180-118398-7 | WGWC-19 | Total/NA | Water | EPA 9034 | 349362 |
| 180-118398-8 | Dup-2 | Total/NA | Water | EPA 9034 | 349362 |
| MB 180-349362/1-A | Method Blank | Total/NA | Water | EPA 9034 | 349362 |

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

General Chemistry (Continued)

Analysis Batch: 349551 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| LCS 180-349362/2-A | Lab Control Sample | Total/NA | Water | EPA 9034 | 349362 |

Prep Batch: 349716

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-118398-9 | FB-2 | Total/NA | Water | 9030B | |
| 180-118398-10 | WGWC-12 | Total/NA | Water | 9030B | |
| MB 180-349716/1-A | Method Blank | Total/NA | Water | 9030B | |
| LCS 180-349716/2-A | Lab Control Sample | Total/NA | Water | 9030B | |
| 180-118398-9 MS | FB-2 | Total/NA | Water | 9030B | |
| 180-118398-9 MSD | FB-2 | Total/NA | Water | 9030B | |

Analysis Batch: 349759

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-118348-2 | WGWA-2 | Total/NA | Water | SM 2540C | |
| 180-118348-3 | WGWA-3 | Total/NA | Water | SM 2540C | |
| 180-118348-4 | WGWA-4 | Total/NA | Water | SM 2540C | |
| 180-118348-5 | WGWA-5 | Total/NA | Water | SM 2540C | |
| 180-118348-7 | WGWA-7 | Total/NA | Water | SM 2540C | |
| MB 180-349759/2 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-349759/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 349871

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| 180-118398-9 | FB-2 | Total/NA | Water | EPA 9034 | 349716 |
| 180-118398-10 | WGWC-12 | Total/NA | Water | EPA 9034 | 349716 |
| MB 180-349716/1-A | Method Blank | Total/NA | Water | EPA 9034 | 349716 |
| LCS 180-349716/2-A | Lab Control Sample | Total/NA | Water | EPA 9034 | 349716 |
| 180-118398-9 MS | FB-2 | Total/NA | Water | EPA 9034 | 349716 |
| 180-118398-9 MSD | FB-2 | Total/NA | Water | EPA 9034 | 349716 |

Analysis Batch: 349921

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-118348-10 | Dup-1 | Total/NA | Water | SM 2540C | |
| 180-118348-13 | EB-1 | Total/NA | Water | SM 2540C | |
| 180-118348-14 | EB-2 | Total/NA | Water | SM 2540C | |
| 180-118348-15 | FB-1 | Total/NA | Water | SM 2540C | |
| MB 180-349921/2 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-349921/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 349926

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-118398-2 | WGWC-10 | Total/NA | Water | SM 2540C | |
| 180-118398-4 | WGWC-13 | Total/NA | Water | SM 2540C | |
| 180-118398-5 | WGWC-14A | Total/NA | Water | SM 2540C | |
| 180-118398-7 | WGWC-19 | Total/NA | Water | SM 2540C | |
| 180-118398-8 | Dup-2 | Total/NA | Water | SM 2540C | |
| MB 180-349926/2 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-349926/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 180-118398-5 DU | WGWC-14A | Total/NA | Water | SM 2540C | |

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

General Chemistry

Analysis Batch: 349927

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-118348-1 | WGWA-1 | Total/NA | Water | SM 2540C | |
| 180-118348-6 | WGWA-6 | Total/NA | Water | SM 2540C | |
| 180-118348-9 | WGWC-8 | Total/NA | Water | SM 2540C | |
| 180-118348-11 | WGWC-16 | Total/NA | Water | SM 2540C | |
| 180-118348-12 | WGWC-17 | Total/NA | Water | SM 2540C | |
| MB 180-349927/2 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-349927/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 350089

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-118398-1 | WGWC-15 | Total/NA | Water | SM 2540C | |
| 180-118398-3 | WGWC-11 | Total/NA | Water | SM 2540C | |
| 180-118398-6 | WGWC-9 | Total/NA | Water | SM 2540C | |
| 180-118398-9 | FB-2 | Total/NA | Water | SM 2540C | |
| 180-118398-10 | WGWC-12 | Total/NA | Water | SM 2540C | |
| MB 180-350089/2 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-350089/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 350091

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-118348-8 | WGWA-18 | Total/NA | Water | SM 2540C | |
| MB 180-350091/2 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-350091/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 180-118348-8 DU | WGWA-18 | Total/NA | Water | SM 2540C | |

Analysis Batch: 350921

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| 180-118348-1 | WGWA-1 | Total/NA | Water | SM2320 B | |
| 180-118348-2 | WGWA-2 | Total/NA | Water | SM2320 B | |
| 180-118348-3 | WGWA-3 | Total/NA | Water | SM2320 B | |
| 180-118348-4 | WGWA-4 | Total/NA | Water | SM2320 B | |
| 180-118348-5 | WGWA-5 | Total/NA | Water | SM2320 B | |
| 180-118348-6 | WGWA-6 | Total/NA | Water | SM2320 B | |
| 180-118348-7 | WGWA-7 | Total/NA | Water | SM2320 B | |
| 180-118348-8 | WGWA-18 | Total/NA | Water | SM2320 B | |
| 180-118348-9 | WGWC-8 | Total/NA | Water | SM2320 B | |
| 180-118348-10 | Dup-1 | Total/NA | Water | SM2320 B | |
| 180-118348-11 | WGWC-16 | Total/NA | Water | SM2320 B | |
| 180-118348-12 | WGWC-17 | Total/NA | Water | SM2320 B | |
| 180-118348-13 | EB-1 | Total/NA | Water | SM2320 B | |
| 180-118348-14 | EB-2 | Total/NA | Water | SM2320 B | |
| 180-118398-2 | WGWC-10 | Total/NA | Water | SM2320 B | |
| 180-118398-4 | WGWC-13 | Total/NA | Water | SM2320 B | |
| 180-118398-5 | WGWC-14A | Total/NA | Water | SM2320 B | |
| 180-118398-7 | WGWC-19 | Total/NA | Water | SM2320 B | |
| 180-118398-8 | Dup-2 | Total/NA | Water | SM2320 B | |
| MB 180-350921/100 | Method Blank | Total/NA | Water | SM2320 B | |
| MB 180-350921/148 | Method Blank | Total/NA | Water | SM2320 B | |
| MB 180-350921/171 | Method Blank | Total/NA | Water | SM2320 B | |
| LCS 180-350921/147 | Lab Control Sample | Total/NA | Water | SM2320 B | |
| LCS 180-350921/170 | Lab Control Sample | Total/NA | Water | SM2320 B | |

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-1

General Chemistry (Continued)

Analysis Batch: 350921 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|----------|------------|
| LCS 180-350921/99 | Lab Control Sample | Total/NA | Water | SM2320 B | |
| LLCS 180-350921/169 | Lab Control Sample | Total/NA | Water | SM2320 B | |
| LLCS 180-350921/98 | Lab Control Sample | Total/NA | Water | SM2320 B | |
| 180-118348-8 DU | WGWA-18 | Total/NA | Water | SM2320 B | |
| 180-118348-13 DU | EB-1 | Total/NA | Water | SM2320 B | |

Analysis Batch: 350993

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| 180-118348-15 | FB-1 | Total/NA | Water | SM2320 B | |
| MB 180-350993/87 | Method Blank | Total/NA | Water | SM2320 B | |
| LCS 180-350993/86 | Lab Control Sample | Total/NA | Water | SM2320 B | |
| LLCS 180-350993/85 | Lab Control Sample | Total/NA | Water | SM2320 B | |
| 180-118348-15 DU | FB-1 | Total/NA | Water | SM2320 B | |

Analysis Batch: 351516

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 180-118398-1 | WGWC-15 | Total/NA | Water | SM2320 B | |
| 180-118398-3 | WGWC-11 | Total/NA | Water | SM2320 B | |
| 180-118398-6 | WGWC-9 | Total/NA | Water | SM2320 B | |
| 180-118398-9 | FB-2 | Total/NA | Water | SM2320 B | |
| 180-118398-10 | WGWC-12 | Total/NA | Water | SM2320 B | |
| MB 180-351516/6 | Method Blank | Total/NA | Water | SM2320 B | |
| LCS 180-351516/5 | Lab Control Sample | Total/NA | Water | SM2320 B | |
| LLCS 180-351516/4 | Lab Control Sample | Total/NA | Water | SM2320 B | |

Field Service / Mobile Lab

Analysis Batch: 349457

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 180-118348-1 | WGWA-1 | Total/NA | Water | Field Sampling | |
| 180-118348-2 | WGWA-2 | Total/NA | Water | Field Sampling | |
| 180-118348-3 | WGWA-3 | Total/NA | Water | Field Sampling | |
| 180-118348-4 | WGWA-4 | Total/NA | Water | Field Sampling | |
| 180-118348-5 | WGWA-5 | Total/NA | Water | Field Sampling | |
| 180-118348-6 | WGWA-6 | Total/NA | Water | Field Sampling | |
| 180-118348-7 | WGWA-7 | Total/NA | Water | Field Sampling | |
| 180-118348-8 | WGWA-18 | Total/NA | Water | Field Sampling | |
| 180-118348-9 | WGWC-8 | Total/NA | Water | Field Sampling | |
| 180-118348-11 | WGWC-16 | Total/NA | Water | Field Sampling | |
| 180-118348-12 | WGWC-17 | Total/NA | Water | Field Sampling | |
| 180-118398-1 | WGWC-15 | Total/NA | Water | Field Sampling | |
| 180-118398-2 | WGWC-10 | Total/NA | Water | Field Sampling | |
| 180-118398-3 | WGWC-11 | Total/NA | Water | Field Sampling | |
| 180-118398-4 | WGWC-13 | Total/NA | Water | Field Sampling | |
| 180-118398-5 | WGWC-14A | Total/NA | Water | Field Sampling | |
| 180-118398-6 | WGWC-9 | Total/NA | Water | Field Sampling | |
| 180-118398-7 | WGWC-19 | Total/NA | Water | Field Sampling | |
| 180-118398-10 | WGWC-12 | Total/NA | Water | Field Sampling | |

Eurofins TestAmerica, Pittsburgh

Chain of Custody Record

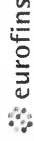


| | | | | | |
|--|---|--|--|---|--|
| Client Information Client Contact: <u>R. Walker / H. Aid / T. Goble</u> SCS Contacts: <u>770-594-5998</u> Company: <u>GA Power</u> | | Lab PM: <u>Brown, Shali</u> E-Mail: <u>shali.brown@eurofinset.com</u> | | Carrier Tracking No(s): COC No: Page: <u>1 of 2</u> Job #: | |
| Address: <u>241 Ralph McGill Blvd SE</u> City: <u>Atlanta</u> State, Zip: <u>GA, 30308</u> Phone: <u>404-506-7116(Tel)</u> Email: <u>SCS Contacts</u> Project Name: <u>CCR - Plant Wansley Ash Pond</u> Site: | | Due Date Requested: TAT Requested (days): PO #: <u>SCS10382606</u> WO #: Project #: 18019922 SSOV#: | | Analysis Requested: Major Ions - Bicarbonate Alkalinity, Total Alkalinity, Iron, Magnesium, Manganese, Potassium, Sodium, Sulfide Detected App IV Metals (EPA 6020/470): SP, As, Ba, Be, Cr, Co, Pb, Li, Mo, Se, Ti Radium 226 & 228 (SW-846 9315/9320) App III Metals (B, Ca) Perform MS/MSD (Yes or No) | |
| Sample Identification | | Field Filtered Sample (Yes or No) | | Total Number of Containers | |
| Sample ID: <u>WG-WA-1</u> <u>WG-WA-2</u> <u>WG-WA-3</u> <u>WG-WA-4</u> <u>WG-WA-5</u> <u>WG-WA-6</u> <u>WG-WA-7</u> <u>WG-WA-18</u> <u>Rep-1</u> | Sample Date: <u>3-11-21</u> <u>3-10-21</u> <u>3-10-21</u> <u>3-10-21</u> <u>3-10-21</u> <u>3-11-21</u> <u>3-10-21</u> <u>3-10-21</u> <u>3-10-21</u> | Sample Time: <u>0935</u> <u>0855</u> <u>1054</u> <u>1217</u> <u>1705</u> <u>1058</u> <u>1345</u> <u>1542</u> <u>1212</u> <u>---</u> | Sample Type (C=comp, G=grab): <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> | Matrix (W=water, S=sediment, O=water, BT=issue, AA=air): <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> | Preservation Code: pH= <u>5.26</u> <u>6.11</u> <u>5.49</u> <u>7.19</u> <u>5.22</u> <u>7.93</u> <u>4.96</u> <u>5.80</u> <u>5.35</u> pH= |
| Special Instructions/Note: App III and App IV Event | | Special Instructions/QC Requirements: <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | |
| Deliverable Requested: <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | Empty Kit Relinquished by: | | Method of Shipment: | |
| Relinquished by: <u>[Signature]</u> Date/Time: <u>3-11-21/1645</u> Company: <u>ACC</u> | | Relinquished by: <u>[Signature]</u> Date/Time: <u>3/11/21/17:00</u> Company: <u>GA Power</u> | | Relinquished by: <u>[Signature]</u> Date/Time: <u>3-11-21/16:45</u> Company: <u>GA Power</u> | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | |



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
 Client Contact: *K Walker/H. Add/T. Goble*
 SCS Contacts Phone: *770-594-5998*
 Lab PM: *Brown, Shali*
 E-Mail: *shali.brown@euofinset.com*

Company: GA Power
 Address: 241 Ralph McGill Blvd SE
 City: Atlanta
 State, Zip: GA, 30308
 Phone: 404-506-7116(Tel)
 Email: SCS10392606
 SCS Contacts WO #: 18019922
 Project Name: CCR - Plant Wansley Ash Pond
 Site:

Analysis Requested:
 Due Date Requested: TAT Requested (days):
 Matrix: Matrix (W=water, S=solid, O=oil, A=air)
 Sample Type (C=comp, G=grab) G
 Sample Time 1347
 Sample Date 3-11-21
 Preservation Code: G
 Matrix Water
 Sample Type G
 Sample Time 1210
 Sample Date 3-11-21
 Preservation Code: G
 Matrix Water
 Sample Type G
 Sample Time 1100
 Sample Date 3-11-21
 Preservation Code: G
 Matrix Water
 Sample Type G
 Sample Time 1355
 Sample Date 3-11-21
 Preservation Code: G
 Matrix Water
 Sample Type G
 Sample Time 1030
 Sample Date 3-11-21
 Preservation Code: G
 Matrix Water
 Sample Type G
 Sample Time
 Sample Date
 Preservation Code: G
 Matrix Water
 Sample Type G
 Sample Time
 Sample Date
 Preservation Code: G
 Matrix Water
 Sample Type G
 Sample Time
 Sample Date
 Preservation Code: G
 Matrix Water
 Sample Type G
 Sample Time
 Sample Date
 Preservation Code: G
 Matrix Water

| Sample Identification | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | App III Metals (B, Ca) | CI, F, SO & TDS (EPA 300 & SM 2540C) | Major Ions - Bicarbonate Alkalinity, Total Alkalinity, Iron, Magnesium, Manganese, Potassium, Sodium, Sulfide | Detected App IV Metals (EPA 6020/470): | Sb, As, Ba, Be, Cr, Co, Pb, Li, Mo, Se, Ti | Radium 226 & 228 (SW-846 9315/9320) | Total Number of Containers | Special Instructions/Note: App III and App IV Event |
|-----------------------|-----------------------------------|----------------------------|------------------------|--------------------------------------|---|--|--|-------------------------------------|----------------------------|---|
| WG-WC-16 | N | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 6 | pH= 5.21 |
| WG-WC-17 | N | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 8 | pH= 5.96 |
| EB-1 | N | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 6 | pH= |
| EB-2 | N | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 6 | pH= |
| FB-1 | N | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 6 | pH= |
| | | | | | | | | | | pH= |
| | | | | | | | | | | pH= |
| | | | | | | | | | | pH= |
| | | | | | | | | | | pH= |
| | | | | | | | | | | pH= |
| | | | | | | | | | | pH= |

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: *Shali Brown* Date: 3/11/21
 Relinquished by: *ACC* Date: 3-11-21/1645
 Relinquished by: *EDL* Date: 3/11/21
 Relinquished by: *EDL* Date: 17:00
 Company: ACC Company: EDL Company: EDL Company: EDL

Received by: *Shali Brown* 3/11/21 16:45
 Received by: *Shali Brown* 3-11-21
 Received by: *Shali Brown* 8:30
 Company: ETRA Company: ETRA Company: ETRA

Custody Seal No.:
 Relinquished by: *Shali Brown* Date: 3/11/21
 Custody Seal No.:
 Relinquished by: *Shali Brown* Date: 3/11/21
 Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record

| Client Information | | Sampler: <u>B. W. Ker / H. Add / T. Goble</u> | | Lab PM: <u>Brown, Shall</u> | | Carrier Tracking No(s): | | COC No: | | | | | |
|---|----------------|---|------------------------------|---|--------------------------------------|-----------------------------------|----------------------------|---|--------------------------------------|--|---|--|-------------------------------------|
| Client Contact: <u>Shall Brown</u> | | Phone: <u>770-544-5998</u> | | E-Mail: <u>Shall.brown@eurofinset.com</u> | | | | Page: <u>1 of 1</u> | | | | | |
| Company: <u>GA Power</u> | | | | | | | | Job #: | | | | | |
| Address: <u>241 Ralph McGill Blvd SE</u> | | Due Date Requested: | | Analysis Requested | | | | Preservation Codes: | | | | | |
| City: <u>Atlanta</u> | | TAT Requested (days): | | | | | | A - HCL B - NaOH M - Hexane N - None C - AcNaO ₂ | | | | | |
| State, Zip: <u>GA, 30308</u> | | PO #: <u>SCS10382606</u> | | | | | | hydrate | | | | | |
| Phone: <u>404-506-7116(Tel)</u> | | WO #: | | | | | | 180-118398 Chain of Custody | | | | | |
| Email: <u>SCS Contacts</u> | | Project #: | | | | | | Other: | | | | | |
| SCS Name: <u>CCR - Plant Wansley Ash Pond</u> | | SSOW#: | | | | | | Special Instructions/Note: App III and App IV Event | | | | | |
| Site: | | | | | | | | Total Number of containers | | | | | |
| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (Water, Solid, Other) | Preservation Code: (BT-Tissue, A=Al) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | App III Metals (B, Ca) | CI, F, SO & TDS (EPA 300 & SM 2540C) | Major Ions - Bicarbonate Alkalinity, Total Alkalinity, Iron, Magnesium, Manganese, Potassium, Sodium, Sulfide | Detected App IV Metals (EPA 6020/7470): | Sb, As, Ba, Be, Cr, Co, Pb, Li, Mo, Se, Tl | Radium 226 & 228 (SW-646 9315/9320) |
| <u>WGWC-9 (H)</u> | <u>3-12-21</u> | <u>1157</u> | <u>G</u> | <u>Water</u> | <u></u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> |
| <u>WGWC-10</u> | <u>3-11-21</u> | <u>1625</u> | <u>G</u> | <u>Water</u> | <u></u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> |
| <u>WGWC-11</u> | <u>3-12-21</u> | <u>1154</u> | <u>G</u> | <u>Water</u> | <u></u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> |
| <u>WGWC-13</u> | <u>3-11-21</u> | <u>1353</u> | <u>G</u> | <u>Water</u> | <u></u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> |
| <u>WGWC-14A</u> | <u>3-11-21</u> | <u>1516</u> | <u>G</u> | <u>Water</u> | <u></u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> |
| <u>WGWC-15 (H)</u> | <u>3-12-21</u> | <u>1407</u> | <u>G</u> | <u>Water</u> | <u></u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> |
| <u>WGWC-19</u> | <u>3-11-21</u> | <u>1455</u> | <u>G</u> | <u>Water</u> | <u></u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> |
| <u>Dup-2</u> | <u>3-11-21</u> | <u>—</u> | <u>G</u> | <u>Water</u> | <u></u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> |
| <u>FB-2</u> | <u>3-12-21</u> | <u>1205</u> | <u>G</u> | <u>Water</u> | <u></u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> |
| <u>WGWC-12</u> | <u>3-12-21</u> | <u>1059</u> | <u>G</u> | <u>Water</u> | <u></u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> |
| | | | <u>G</u> | <u>Water</u> | <u></u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | | | | | Special Instructions/QC Requirements: | | | |
| Empty Kit Relinquished by: | | | | | | | | | | Method of Shipment: | | | |
| Relinquished by: <u>[Signature]</u> | | | | | | | | | | Date/Time: <u>3/12/21 1530</u> | | | |
| Relinquished by: <u>[Signature]</u> | | | | | | | | | | Date/Time: <u>3/12/21 1530</u> | | | |
| Relinquished by: <u>[Signature]</u> | | | | | | | | | | Date/Time: <u>3/12/21 1600</u> | | | |
| Custody Seals Intact: <u>3/12/21</u> | | | | | | | | | | Company: <u>ACC</u> | | | |
| Custody Seal No.: <u>3/12/21</u> | | | | | | | | | | Company: <u>ACC</u> | | | |
| Custody Seal No.: <u>3/12/21</u> | | | | | | | | | | Company: <u>ACC</u> | | | |
| Cooler Temperature(s) °C and Other Remarks: | | | | | | | | | | Date/Time: <u>3/12/21 9:00</u> | | | |



180-118348 Waybill

... Making This Tag

| | | |
|-------------------------------------|-----------|------|
| Ref: PLT WANSLEY ACCC Date: 11Mar21 | SHIPPING: | 0.00 |
| Wgt: 58.40 LBS | SPECIAL: | 0.00 |
| DV: | HANDLING: | 0.00 |
| | TOTAL: | 0.00 |

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6580



Environment Testing
TestAmerica

Pat # 159469-484 RITZ EXP 11/21

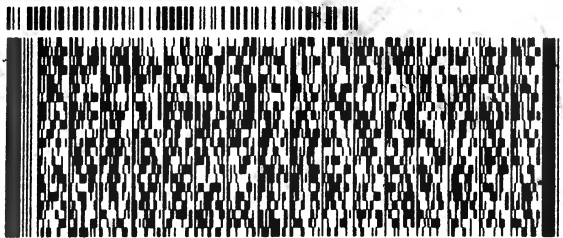
ORIGIN ID: LIYA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

SHIP DATE: 11MAR21
 ACTWGT: 58.40 LB
 CAD: 859116/CAFE3409

BILL RECEIPT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
 REF: PLT WANSLEY ACCC



FedEx
Express



120112012186114

3 of 6
 MPS# 1516 9328 6580
 0263
 Mstr# 1516 9328 6568

FRI - 12 MAR 4:30P
 STANDARD OVERNIGHT

NA AGCA

15238
 PA-US PIT

Uncorrected temp _____ °C
 Thermometer ID _____

CF 0 Initials ST

PT-WI-SR-001 effective 11/8/18



DV: 0.00 TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6605

Part # 159409-434 RITZ EXP 11/21/18



Environment Testing
TestAmerica

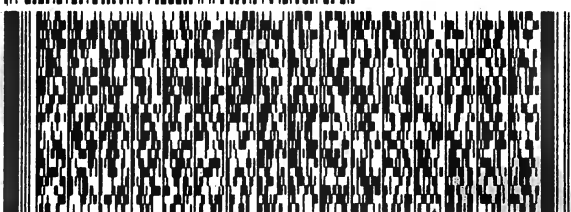
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECEIPT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: PLT WANSLEY ACCC



FedEx
Express



5 of 6

MPS# 1516 9328 6605

Mstr# 1516 9328 6568

0201

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

15238
PA-US PIT

Uncorrected temp 22 °C
Thermometer ID 14

CF Initials

PT-WI-SR-001 effective 11/8/18



| | | | |
|-----------------------|----------------|-------------|------|
| Ref: PLT WANSLEY ACCC | Date: 11Mar21 | SHIPPING: | 0.00 |
| Dep: | Wgt: 58.40 LBS | SPECIAL: | 0.00 |
| | DV: | HANDLING: | 0.00 |
| | | 0.00 TOTAL: | 0.00 |

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRACK: 1516 9328 6579



Environment Testing
TestAmerica

Part # 15968-436 RITZ EXP 11/21 ©

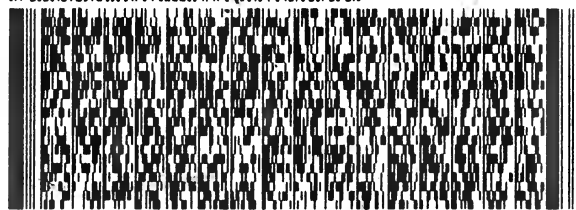
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: PLT WANSLEY ACCC



FedEx
Express



J20112012180114

2 of 6
MPS# 1516 9328 6579
0263
Mstr# 1516 9328 6568

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

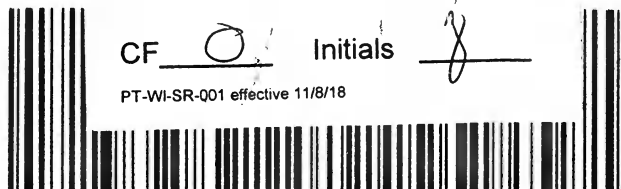
15238
PIT

Uncorrected temp
Thermometer ID

29 °C
19

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18



Ref: PLT WANSLEY ACCC Date: 11Mar21
Dep: Wgt: 58.40 LBS
DV: 0.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6616



Environment Testing
TestAmerica

3469-434 RIT2 EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

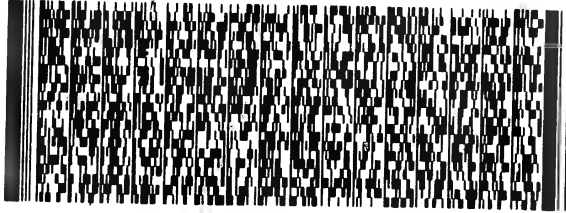
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068

REF: PLT WANSLEY ACCC



FedEx
Express



6 of 6

MPS# 1516 9328 6616

Mstr# 1516 9328 6568

0201

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

Uncorrected temp
Thermometer ID

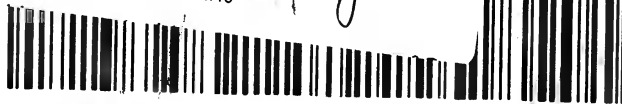
2.5
19 °C

15238

PA-US PIT

CF 0 Initials g

PT-WI-SR-001 effective 11/8/18



Do Not Lift Using This Tag

Ref: PLT WANSLEY ACCC Date: 11Mar21 SHIPPING: 0.00
Dep: Wgt: 58.40 LBS SPECIAL: 0.00
DV: 0.00 HANDLING: 0.00
TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6590



Environment Testing
TestAmerica

Part # 159469-434 RITZ EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

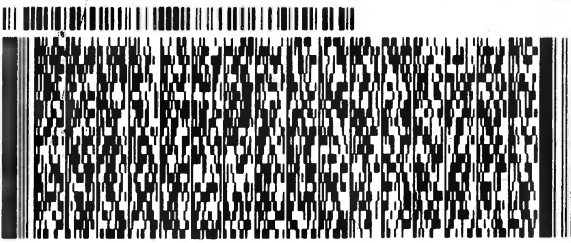
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBORGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 863-7068

REF: PLT WANSLEY ACCC



FedEx
Express



AN10101210211021

4 of 6
MPS# 1516 9328 6590
0263
Mstr# 1516 9328 6568

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

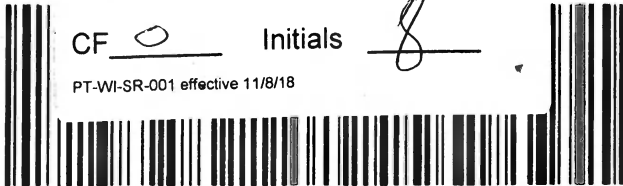
15238
PIT

Uncorrected temp
Thermometer ID

2.5 °C US
119

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18





Do Not Lift Using This Tag



**Environment Testing
TestAmerica**

Pat # 159465-434 RIT2 EXP 11/21

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

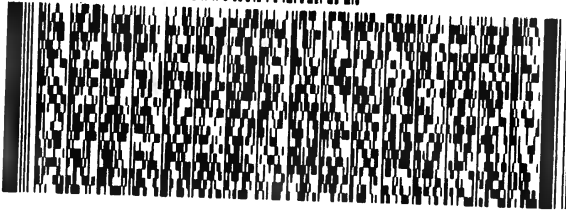
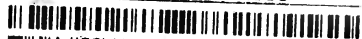
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

**TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238**

(412) 963-7058

REF: PLT WANSLEY ACCC



**FedEx
Express**



AN 1031210211021

1 of 6
TRK# 1516 9328 6568
0201
MASTER

**FRI - 12 MAR 4:30P
STANDARD OVERNIGHT**

NA AGCA

Uncorrected temp
Thermometer ID

2.8 °C
14
J

15238
us PIT

CF 6 Initials J

PT-WI-SR-001 effective 11/8/18



- 1
- 2
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- 9
- 10
- 11
- 12
- 13

Do Not Lift L

639

Tao

FZ

Part # 159469-434 RIT2 EXP 11/21



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

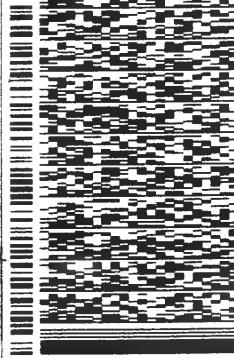
SHIP DATE: 12MAR21
ACTWGT: 60.05 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: ACC



FedEx
Express



2 of 3
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 1516 9328 6980

Mstr# 0263

Uncorrected temp 3.5 °C

Thermometer ID 15238

CF Initials

PT-WI-SR-001 effective 11/8/18



FedEx Saturday Delivery

151967 RE

Do Not Lift Using This Tag



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

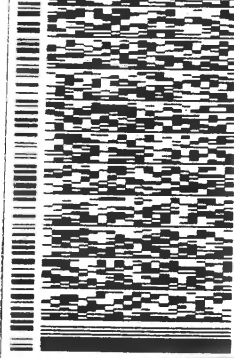
SHIP DATE: 12MAR21
ACTWGT: 60.05 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: ACC



FedEx
Express



1 of 3
SATURDAY 12:00
PRIORITY OVERNIGHT

TRK# 1516 9328 6970

0201

MASTER

XO AGCA

1523

PA-US

PI

31240 #M

12

13

1
2
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7
8
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10
11



180-118398 Waybill

Do Not Lift Using This Tag



Env
TestA

RT 639

12:00 6991 09.13

EXP 11/21

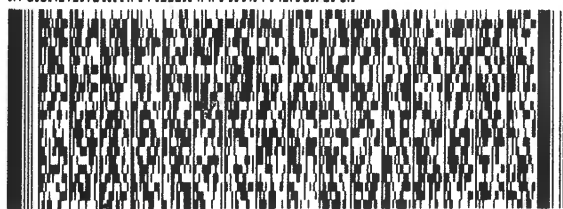
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 12MAR21
ACTWGT: 60.05 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: ACC



FedEx
Express



3 of 3

MPS# 1516 9328 6991

Mstr# 1516 9328 6970

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

Uncorrected temp
Thermometer ID

2.6 °C

14

CF 0 Initials Y

15238
PA-US PIT

PT-WI-SR-001 effective 11/8/18



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118348-1

Login Number: 118348

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118348-1

Login Number: 118398

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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



ANALYTICAL REPORT

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

Laboratory Job ID: 180-118348-2

Client Project/Site: CCR - Plant Wansley Ash Pond

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
4/14/2021 6:26:38 PM

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

LINKS

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

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

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Job ID: 180-118348-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Rad needs ACC EDD

1

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Qualifiers

Rad

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

Glossary

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Laboratory: Eurofins TestAmerica, St. Louis

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

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

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

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 180-118348-1 | WGWA-1 | Water | 03/11/21 09:35 | 03/12/21 08:30 | |
| 180-118348-2 | WGWA-2 | Water | 03/10/21 08:55 | 03/12/21 08:30 | |
| 180-118348-3 | WGWA-3 | Water | 03/10/21 10:54 | 03/12/21 08:30 | |
| 180-118348-4 | WGWA-4 | Water | 03/10/21 12:17 | 03/12/21 08:30 | |
| 180-118348-5 | WGWA-5 | Water | 03/10/21 17:05 | 03/12/21 08:30 | |
| 180-118348-6 | WGWA-6 | Water | 03/11/21 10:58 | 03/12/21 08:30 | |
| 180-118348-7 | WGWA-7 | Water | 03/10/21 13:45 | 03/12/21 08:30 | |
| 180-118348-8 | WGWA-18 | Water | 03/10/21 15:42 | 03/12/21 08:30 | |
| 180-118348-9 | WGWC-8 | Water | 03/11/21 12:12 | 03/12/21 08:30 | |
| 180-118348-10 | Dup-1 | Water | 03/10/21 00:00 | 03/12/21 08:30 | |
| 180-118348-11 | WGWC-16 | Water | 03/11/21 13:47 | 03/12/21 08:30 | |
| 180-118348-12 | WGWC-17 | Water | 03/11/21 12:10 | 03/12/21 08:30 | |
| 180-118348-13 | EB-1 | Water | 03/11/21 11:00 | 03/12/21 08:30 | |
| 180-118348-14 | EB-2 | Water | 03/11/21 13:55 | 03/12/21 08:30 | |
| 180-118348-15 | FB-1 | Water | 03/11/21 10:30 | 03/12/21 08:30 | |
| 180-118398-1 | WGWC-15 | Water | 03/12/21 11:57 | 03/13/21 09:00 | |
| 180-118398-2 | WGWC-10 | Water | 03/11/21 16:25 | 03/13/21 09:00 | |
| 180-118398-3 | WGWC-11 | Water | 03/12/21 11:54 | 03/13/21 09:00 | |
| 180-118398-4 | WGWC-13 | Water | 03/11/21 13:53 | 03/13/21 09:00 | |
| 180-118398-5 | WGWC-14A | Water | 03/11/21 15:16 | 03/13/21 09:00 | |
| 180-118398-6 | WGWC-9 | Water | 03/12/21 10:07 | 03/13/21 09:00 | |
| 180-118398-7 | WGWC-19 | Water | 03/11/21 14:55 | 03/13/21 09:00 | |
| 180-118398-8 | Dup-2 | Water | 03/11/21 00:00 | 03/13/21 09:00 | |
| 180-118398-9 | FB-2 | Water | 03/12/21 12:05 | 03/13/21 09:00 | |
| 180-118398-10 | WGWC-12 | Water | 03/12/21 10:59 | 03/13/21 09:00 | |

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-118348-1

Date Collected: 03/11/21 09:35

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.76 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 17:13 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.76 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:37 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-2

Lab Sample ID: 180-118348-2

Date Collected: 03/10/21 08:55

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.60 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 17:14 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.60 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:37 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-3

Lab Sample ID: 180-118348-3

Date Collected: 03/10/21 10:54

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.70 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 17:14 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.70 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:37 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-4

Lab Sample ID: 180-118348-4

Date Collected: 03/10/21 12:17

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.33 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 17:14 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWA-4

Lab Sample ID: 180-118348-4

Date Collected: 03/10/21 12:17

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep_0 | | | 1000.33 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:37 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-5

Lab Sample ID: 180-118348-5

Date Collected: 03/10/21 17:05

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.31 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 17:14 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.31 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:37 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-6

Lab Sample ID: 180-118348-6

Date Collected: 03/11/21 10:58

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.15 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 13:20 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.15 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:37 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWA-7

Lab Sample ID: 180-118348-7

Date Collected: 03/10/21 13:45

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.34 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 13:20 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.34 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:38 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-118348-7

Date Collected: 03/10/21 13:45

Matrix: Water

Date Received: 03/12/21 08:30

| 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 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |

Client Sample ID: WGWA-18

Lab Sample ID: 180-118348-8

Date Collected: 03/10/21 15:42

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.62 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 13:17 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.62 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:38 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-8

Lab Sample ID: 180-118348-9

Date Collected: 03/11/21 12:12

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.28 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 13:18 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.28 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:39 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: Dup-1

Lab Sample ID: 180-118348-10

Date Collected: 03/10/21 00:00

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.45 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 13:21 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.45 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:39 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-16

Lab Sample ID: 180-118348-11

Date Collected: 03/11/21 13:47

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.43 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 13:18 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.43 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:39 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-17

Lab Sample ID: 180-118348-12

Date Collected: 03/11/21 12:10

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.03 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 13:18 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.03 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:39 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: EB-1

Lab Sample ID: 180-118348-13

Date Collected: 03/11/21 11:00

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.75 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 13:19 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.75 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:39 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: EB-2

Lab Sample ID: 180-118348-14

Date Collected: 03/11/21 13:55

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.10 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 13:19 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: EB-2

Lab Sample ID: 180-118348-14

Date Collected: 03/11/21 13:55

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep_0 | | | 1000.10 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:40 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: FB-1

Lab Sample ID: 180-118348-15

Date Collected: 03/11/21 10:30

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.19 mL | 1.0 g | 502473 | 03/18/21 16:07 | JEC | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505214 | 04/09/21 13:19 | AK | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.19 mL | 1.0 g | 502475 | 03/18/21 16:38 | JEC | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503373 | 03/26/21 12:40 | ANW | TAL SL |
| Instrument ID: GFPCORANGE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505487 | 04/13/21 21:33 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-15

Lab Sample ID: 180-118398-1

Date Collected: 03/12/21 11:57

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.49 mL | 1.0 g | 502505 | 03/19/21 09:03 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505467 | 04/13/21 08:36 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.49 mL | 1.0 g | 502508 | 03/19/21 09:39 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503689 | 03/30/21 14:18 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505625 | 04/14/21 15:15 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-10

Lab Sample ID: 180-118398-2

Date Collected: 03/11/21 16:25

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.22 mL | 1.0 g | 502505 | 03/19/21 09:03 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505467 | 04/13/21 08:37 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.22 mL | 1.0 g | 502508 | 03/19/21 09:39 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503689 | 03/30/21 14:18 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-10

Lab Sample ID: 180-118398-2

Date Collected: 03/11/21 16:25

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505625 | 04/14/21 15:15 | SCB | TAL SL |

Client Sample ID: WGWC-11

Lab Sample ID: 180-118398-3

Date Collected: 03/12/21 11:54

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.66 mL | 1.0 g | 502505 | 03/19/21 09:03 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505467 | 04/13/21 08:37 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.66 mL | 1.0 g | 502508 | 03/19/21 09:39 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503689 | 03/30/21 14:19 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505625 | 04/14/21 15:15 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-13

Lab Sample ID: 180-118398-4

Date Collected: 03/11/21 13:53

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.16 mL | 1.0 g | 502505 | 03/19/21 09:03 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505467 | 04/13/21 08:37 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.16 mL | 1.0 g | 502508 | 03/19/21 09:39 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503689 | 03/30/21 14:19 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505625 | 04/14/21 15:15 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-14A

Lab Sample ID: 180-118398-5

Date Collected: 03/11/21 15:16

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.41 mL | 1.0 g | 502505 | 03/19/21 09:03 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505467 | 04/13/21 08:37 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.41 mL | 1.0 g | 502508 | 03/19/21 09:39 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503689 | 03/30/21 14:19 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505625 | 04/14/21 15:15 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-9

Lab Sample ID: 180-118398-6

Date Collected: 03/12/21 10:07

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.53 mL | 1.0 g | 502505 | 03/19/21 09:03 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505458 | 04/13/21 13:59 | ANW | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.53 mL | 1.0 g | 502508 | 03/19/21 09:39 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503689 | 03/30/21 14:19 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505625 | 04/14/21 15:15 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-19

Lab Sample ID: 180-118398-7

Date Collected: 03/11/21 14:55

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.81 mL | 1.0 g | 502505 | 03/19/21 09:03 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505458 | 04/13/21 13:59 | ANW | TAL SL |
| Instrument ID: GFPCPURPLE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.81 mL | 1.0 g | 502508 | 03/19/21 09:39 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503689 | 03/30/21 14:19 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505625 | 04/14/21 15:15 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: Dup-2

Lab Sample ID: 180-118398-8

Date Collected: 03/11/21 00:00

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1000.66 mL | 1.0 g | 502505 | 03/19/21 09:03 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505467 | 04/13/21 08:37 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1000.66 mL | 1.0 g | 502508 | 03/19/21 09:39 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503689 | 03/30/21 14:20 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505625 | 04/14/21 15:15 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: FB-2

Lab Sample ID: 180-118398-9

Date Collected: 03/12/21 12:05

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 999.43 mL | 1.0 g | 502505 | 03/19/21 09:03 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505467 | 04/13/21 08:38 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: FB-2

Lab Sample ID: 180-118398-9

Date Collected: 03/12/21 12:05

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep_0 | | | 999.43 mL | 1.0 g | 502508 | 03/19/21 09:39 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503689 | 03/30/21 14:20 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505625 | 04/14/21 15:15 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-12

Lab Sample ID: 180-118398-10

Date Collected: 03/12/21 10:59

Matrix: Water

Date Received: 03/13/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 1001.04 mL | 1.0 g | 502505 | 03/19/21 09:03 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | | | 505467 | 04/13/21 08:38 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Prep | PrecSep_0 | | | 1001.04 mL | 1.0 g | 502508 | 03/19/21 09:39 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | | | 503689 | 03/30/21 14:20 | ANW | TAL SL |
| Instrument ID: GFPCBLUE | | | | | | | | | | |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | | | 505625 | 04/14/21 15:15 | SCB | TAL SL |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

JEC = Julia Crossen

RBR = Rachael Ratcliff

Batch Type: Analysis

AK = Amanda Kraus

ANW = Amber Woods

SCB = Sarah Bernsen

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-118348-1

Date Collected: 03/11/21 09:35

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0714 | U | 0.0632 | 0.0635 | 1.00 | 0.0938 | pCi/L | 03/18/21 16:07 | 04/09/21 17:13 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 81.8 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 17:13 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0254 | U | 0.236 | 0.236 | 1.00 | 0.431 | pCi/L | 03/18/21 16:38 | 03/26/21 12:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 81.8 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:37 | 1 |
| Y Carrier | 84.5 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:37 | 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 | 0.0460 | U | 0.244 | 0.244 | 2.00 | 0.431 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-118348-2

Date Collected: 03/10/21 08:55

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.0177 | U | 0.0623 | 0.0624 | 1.00 | 0.131 | pCi/L | 03/18/21 16:07 | 04/09/21 17:14 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.6 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 17:14 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.396 | U | 0.269 | 0.272 | 1.00 | 0.417 | pCi/L | 03/18/21 16:38 | 03/26/21 12:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 87.6 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:37 | 1 |
| Y Carrier | 83.0 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:37 | 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 | 0.378 | U | 0.276 | 0.279 | 2.00 | 0.417 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWA-3

Lab Sample ID: 180-118348-3

Date Collected: 03/10/21 10:54

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | -0.0224 | U | 0.0385 | 0.0385 | 1.00 | 0.0956 | pCi/L | 03/18/21 16:07 | 04/09/21 17:14 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.0 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 17:14 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.154 | U | 0.196 | 0.197 | 1.00 | 0.385 | pCi/L | 03/18/21 16:38 | 03/26/21 12:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.0 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:37 | 1 |
| Y Carrier | 90.5 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:37 | 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 | -0.177 | U | 0.200 | 0.201 | 2.00 | 0.385 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWA-4

Lab Sample ID: 180-118348-4

Date Collected: 03/10/21 12:17

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.638 | | 0.148 | 0.159 | 1.00 | 0.105 | pCi/L | 03/18/21 16:07 | 04/09/21 17:14 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 83.5 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 17:14 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.830 | | 0.290 | 0.300 | 1.00 | 0.386 | pCi/L | 03/18/21 16:38 | 03/26/21 12:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 83.5 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:37 | 1 |
| Y Carrier | 89.3 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:37 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.47 | | 0.326 | 0.340 | 2.00 | 0.386 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWA-5

Lab Sample ID: 180-118348-5

Date Collected: 03/10/21 17:05

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0574 | U | 0.0602 | 0.0605 | 1.00 | 0.0951 | pCi/L | 03/18/21 16:07 | 04/09/21 17:14 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.9 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 17:14 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0862 | U | 0.213 | 0.213 | 1.00 | 0.370 | pCi/L | 03/18/21 16:38 | 03/26/21 12:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.9 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:37 | 1 |
| Y Carrier | 84.5 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:37 | 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 | 0.144 | U | 0.221 | 0.221 | 2.00 | 0.370 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWA-6

Lab Sample ID: 180-118348-6

Date Collected: 03/11/21 10:58

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 3.65 | | 0.323 | 0.461 | 1.00 | 0.106 | pCi/L | 03/18/21 16:07 | 04/09/21 13:20 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.6 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 13:20 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 5.54 | | 0.557 | 0.755 | 1.00 | 0.398 | pCi/L | 03/18/21 16:38 | 03/26/21 12:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.6 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:37 | 1 |
| Y Carrier | 85.2 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:37 | 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 | 9.20 | | 0.644 | 0.885 | 2.00 | 0.398 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-118348-7

Date Collected: 03/10/21 13:45

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.131 | | 0.0882 | 0.0889 | 1.00 | 0.124 | pCi/L | 03/18/21 16:07 | 04/09/21 13:20 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.0 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 13:20 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0935 | U | 0.228 | 0.229 | 1.00 | 0.395 | pCi/L | 03/18/21 16:38 | 03/26/21 12:38 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.0 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:38 | 1 |
| Y Carrier | 85.2 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:38 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.224 | U | 0.244 | 0.246 | 2.00 | 0.395 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWA-18

Lab Sample ID: 180-118348-8

Date Collected: 03/10/21 15:42

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.130 | | 0.0781 | 0.0790 | 1.00 | 0.102 | pCi/L | 03/18/21 16:07 | 04/09/21 13:17 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.3 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 13:17 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0884 | U | 0.221 | 0.222 | 1.00 | 0.385 | pCi/L | 03/18/21 16:38 | 03/26/21 12:38 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.3 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:38 | 1 |
| Y Carrier | 83.4 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:38 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.218 | U | 0.234 | 0.236 | 2.00 | 0.385 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-8

Lab Sample ID: 180-118348-9

Date Collected: 03/11/21 12:12

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.451 | | 0.125 | 0.132 | 1.00 | 0.108 | pCi/L | 03/18/21 16:07 | 04/09/21 13:18 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 83.2 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 13:18 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.93 | | 0.377 | 0.417 | 1.00 | 0.401 | pCi/L | 03/18/21 16:38 | 03/26/21 12:39 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 83.2 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:39 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:39 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 2.38 | | 0.397 | 0.437 | 2.00 | 0.401 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: Dup-1

Lab Sample ID: 180-118348-10

Date Collected: 03/10/21 00:00

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0287 | U | 0.0650 | 0.0651 | 1.00 | 0.117 | pCi/L | 03/18/21 16:07 | 04/09/21 13:21 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.1 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 13:21 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0376 | U | 0.167 | 0.167 | 1.00 | 0.299 | pCi/L | 03/18/21 16:38 | 03/26/21 12:39 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.1 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:39 | 1 |
| Y Carrier | 89.3 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:39 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.0662 | U | 0.179 | 0.179 | 2.00 | 0.299 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-16

Lab Sample ID: 180-118348-11

Date Collected: 03/11/21 13:47

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.191 | | 0.0820 | 0.0838 | 1.00 | 0.0863 | pCi/L | 03/18/21 16:07 | 04/09/21 13:18 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.9 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 13:18 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.751 | | 0.261 | 0.270 | 1.00 | 0.336 | pCi/L | 03/18/21 16:38 | 03/26/21 12:39 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.9 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:39 | 1 |
| Y Carrier | 83.4 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:39 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.942 | | 0.274 | 0.283 | 2.00 | 0.336 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-17

Lab Sample ID: 180-118348-12

Date Collected: 03/11/21 12:10

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0722 | U | 0.0655 | 0.0658 | 1.00 | 0.0990 | pCi/L | 03/18/21 16:07 | 04/09/21 13:18 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.7 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 13:18 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.175 | U | 0.274 | 0.274 | 1.00 | 0.461 | pCi/L | 03/18/21 16:38 | 03/26/21 12:39 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.7 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:39 | 1 |
| Y Carrier | 84.9 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:39 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.247 | U | 0.282 | 0.282 | 2.00 | 0.461 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: EB-1

Lab Sample ID: 180-118348-13

Date Collected: 03/11/21 11:00

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0492 | U | 0.0772 | 0.0774 | 1.00 | 0.133 | pCi/L | 03/18/21 16:07 | 04/09/21 13:19 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.8 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 13:19 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0371 | U | 0.223 | 0.223 | 1.00 | 0.410 | pCi/L | 03/18/21 16:38 | 03/26/21 12:39 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 86.8 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:39 | 1 |
| Y Carrier | 82.6 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:39 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.0121 | U | 0.236 | 0.236 | 2.00 | 0.410 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: EB-2

Lab Sample ID: 180-118348-14

Date Collected: 03/11/21 13:55

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.0236 | U | 0.0406 | 0.0406 | 1.00 | 0.101 | pCi/L | 03/18/21 16:07 | 04/09/21 13:19 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 80.0 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 13:19 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.395 | U | 0.228 | 0.231 | 1.00 | 0.482 | pCi/L | 03/18/21 16:38 | 03/26/21 12:40 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 80.0 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:40 | 1 |
| Y Carrier | 83.7 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:40 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | -0.418 | U | 0.232 | 0.235 | 2.00 | 0.482 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: FB-1

Lab Sample ID: 180-118348-15

Date Collected: 03/11/21 10:30

Matrix: Water

Date Received: 03/12/21 08:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0248 | U | 0.0561 | 0.0561 | 1.00 | 0.103 | pCi/L | 03/18/21 16:07 | 04/09/21 13:19 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.9 | | 40 - 110 | | | | | 03/18/21 16:07 | 04/09/21 13:19 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.0673 | U | 0.212 | 0.212 | 1.00 | 0.398 | pCi/L | 03/18/21 16:38 | 03/26/21 12:40 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.9 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:40 | 1 |
| Y Carrier | 83.7 | | 40 - 110 | | | | | 03/18/21 16:38 | 03/26/21 12:40 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | -0.0426 | U | 0.219 | 0.219 | 2.00 | 0.398 | pCi/L | | 04/13/21 21:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-15

Lab Sample ID: 180-118398-1

Date Collected: 03/12/21 11:57

Matrix: Water

Date Received: 03/13/21 09:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.225 | | 0.0940 | 0.0962 | 1.00 | 0.0998 | pCi/L | 03/19/21 09:03 | 04/13/21 08:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 80.0 | | 40 - 110 | | | | | 03/19/21 09:03 | 04/13/21 08:36 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.366 | U | 0.322 | 0.324 | 1.00 | 0.516 | pCi/L | 03/19/21 09:39 | 03/30/21 14:18 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 80.0 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:18 | 1 |
| Y Carrier | 82.2 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:18 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.591 | | 0.335 | 0.338 | 2.00 | 0.516 | pCi/L | | 04/14/21 15:15 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-10

Lab Sample ID: 180-118398-2

Date Collected: 03/11/21 16:25

Matrix: Water

Date Received: 03/13/21 09:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0839 | U | 0.0687 | 0.0691 | 1.00 | 0.101 | pCi/L | 03/19/21 09:03 | 04/13/21 08:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.9 | | 40 - 110 | | | | | 03/19/21 09:03 | 04/13/21 08:37 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.336 | U | 0.273 | 0.274 | 1.00 | 0.431 | pCi/L | 03/19/21 09:39 | 03/30/21 14:18 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.9 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:18 | 1 |
| Y Carrier | 84.1 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:18 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.420 | U | 0.282 | 0.283 | 2.00 | 0.431 | pCi/L | | 04/14/21 15:15 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-118398-3

Date Collected: 03/12/21 11:54

Matrix: Water

Date Received: 03/13/21 09:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0289 | U | 0.0618 | 0.0619 | 1.00 | 0.112 | pCi/L | 03/19/21 09:03 | 04/13/21 08:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.3 | | 40 - 110 | | | | | 03/19/21 09:03 | 04/13/21 08:37 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0440 | U | 0.234 | 0.234 | 1.00 | 0.416 | pCi/L | 03/19/21 09:39 | 03/30/21 14:19 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.3 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:19 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:19 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.0729 | U | 0.242 | 0.242 | 2.00 | 0.416 | pCi/L | | 04/14/21 15:15 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-13

Lab Sample ID: 180-118398-4

Date Collected: 03/11/21 13:53

Matrix: Water

Date Received: 03/13/21 09:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.181 | | 0.0851 | 0.0867 | 1.00 | 0.0989 | pCi/L | 03/19/21 09:03 | 04/13/21 08:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.1 | | 40 - 110 | | | | | 03/19/21 09:03 | 04/13/21 08:37 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.292 | U | 0.232 | 0.233 | 1.00 | 0.363 | pCi/L | 03/19/21 09:39 | 03/30/21 14:19 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.1 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:19 | 1 |
| Y Carrier | 84.5 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:19 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.473 | | 0.247 | 0.249 | 2.00 | 0.363 | pCi/L | | 04/14/21 15:15 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-14A

Lab Sample ID: 180-118398-5

Date Collected: 03/11/21 15:16

Matrix: Water

Date Received: 03/13/21 09:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.225 | | 0.0970 | 0.0991 | 1.00 | 0.110 | pCi/L | 03/19/21 09:03 | 04/13/21 08:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.1 | | 40 - 110 | | | | | 03/19/21 09:03 | 04/13/21 08:37 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.539 | | 0.322 | 0.325 | 1.00 | 0.489 | pCi/L | 03/19/21 09:39 | 03/30/21 14:19 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 82.1 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:19 | 1 |
| Y Carrier | 83.4 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:19 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.764 | | 0.336 | 0.340 | 2.00 | 0.489 | pCi/L | | 04/14/21 15:15 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-9

Lab Sample ID: 180-118398-6

Date Collected: 03/12/21 10:07

Matrix: Water

Date Received: 03/13/21 09:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.105 | | 0.0697 | 0.0703 | 1.00 | 0.0950 | pCi/L | 03/19/21 09:03 | 04/13/21 13:59 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.0 | | 40 - 110 | | | | | 03/19/21 09:03 | 04/13/21 13:59 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.726 | | 0.302 | 0.309 | 1.00 | 0.422 | pCi/L | 03/19/21 09:39 | 03/30/21 14:19 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.0 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:19 | 1 |
| Y Carrier | 84.9 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:19 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.831 | | 0.310 | 0.317 | 2.00 | 0.422 | pCi/L | | 04/14/21 15:15 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-19

Lab Sample ID: 180-118398-7

Date Collected: 03/11/21 14:55

Matrix: Water

Date Received: 03/13/21 09:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0113 | U | 0.0642 | 0.0642 | 1.00 | 0.123 | pCi/L | 03/19/21 09:03 | 04/13/21 13:59 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.7 | | 40 - 110 | | | | | 03/19/21 09:03 | 04/13/21 13:59 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.275 | U | 0.261 | 0.262 | 1.00 | 0.420 | pCi/L | 03/19/21 09:39 | 03/30/21 14:19 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.7 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:19 | 1 |
| Y Carrier | 83.0 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:19 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.286 | U | 0.269 | 0.270 | 2.00 | 0.420 | pCi/L | | 04/14/21 15:15 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: Dup-2
 Date Collected: 03/11/21 00:00
 Date Received: 03/13/21 09:00

Lab Sample ID: 180-118398-8
 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 | -0.00677 | U | 0.0475 | 0.0475 | 1.00 | 0.104 | pCi/L | 03/19/21 09:03 | 04/13/21 08:37 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 80.0 | | 40 - 110 | | | | | 03/19/21 09:03 | 04/13/21 08:37 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.461 | | 0.297 | 0.300 | 1.00 | 0.452 | pCi/L | 03/19/21 09:39 | 03/30/21 14:20 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 80.0 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:20 | 1 |
| Y Carrier | 84.5 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:20 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.454 | | 0.301 | 0.304 | 2.00 | 0.452 | pCi/L | | 04/14/21 15:15 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: FB-2

Lab Sample ID: 180-118398-9

Date Collected: 03/12/21 12:05

Matrix: Water

Date Received: 03/13/21 09:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0202 | U | 0.0497 | 0.0497 | 1.00 | 0.0930 | pCi/L | 03/19/21 09:03 | 04/13/21 08:38 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 83.2 | | 40 - 110 | | | | | 03/19/21 09:03 | 04/13/21 08:38 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.201 | U | 0.280 | 0.281 | 1.00 | 0.468 | pCi/L | 03/19/21 09:39 | 03/30/21 14:20 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 83.2 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:20 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:20 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.221 | U | 0.284 | 0.285 | 2.00 | 0.468 | pCi/L | | 04/14/21 15:15 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Client Sample ID: WGWC-12

Lab Sample ID: 180-118398-10

Date Collected: 03/12/21 10:59

Matrix: Water

Date Received: 03/13/21 09:00

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.119 | U | 0.0916 | 0.0923 | 1.00 | 0.136 | pCi/L | 03/19/21 09:03 | 04/13/21 08:38 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.4 | | 40 - 110 | | | | | 03/19/21 09:03 | 04/13/21 08:38 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.513 | U | 0.345 | 0.348 | 1.00 | 0.539 | pCi/L | 03/19/21 09:39 | 03/30/21 14:20 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.4 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:20 | 1 |
| Y Carrier | 87.5 | | 40 - 110 | | | | | 03/19/21 09:39 | 03/30/21 14:20 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.633 | | 0.357 | 0.360 | 2.00 | 0.539 | pCi/L | | 04/14/21 15:15 | 1 |

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-502473/22-A
Matrix: Water
Analysis Batch: 505214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502473

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|----------|--------------|-----------------|-----------------|------|--------|-------|----------------|----------------|---------|
| | Result | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | -0.04078 | U | 0.0319 | 0.0321 | 1.00 | 0.0984 | pCi/L | 03/18/21 16:09 | 04/09/21 13:20 | 1 |
| Carrier | MB | | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | %Yield | MB Qualifier | 40 - 110 | | | | | 03/18/21 16:09 | 04/09/21 13:20 | 1 |
| | 82.6 | | | | | | | | | |

Lab Sample ID: LCS 160-502473/1-A
Matrix: Water
Analysis Batch: 505214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502473

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------|------|--------|-------|------|--------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.3 | 11.14 | | 1.15 | 1.00 | 0.0989 | pCi/L | 98 | 75 - 125 |
| Carrier | LCS | LCS | Limits | | | | | | |
| Ba Carrier | %Yield | Qualifier | 40 - 110 | | | | | | |
| | 88.5 | | | | | | | | |

Lab Sample ID: 180-118348-12 DU
Matrix: Water
Analysis Batch: 505214

Client Sample ID: WGWC-17
Prep Type: Total/NA
Prep Batch: 502473

| Analyte | Sample | | DU | DU | Total | RL | MDC | Unit | RER | RER Limit |
|------------|--------|-------------|----------|------|-----------------|------|--------|-------|------|-----------|
| | Result | Sample Qual | Result | Qual | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 0.0722 | U | 0.01275 | U | 0.0466 | 1.00 | 0.0913 | pCi/L | 0.53 | 1 |
| Carrier | DU | DU | Limits | | | | | | | |
| Ba Carrier | %Yield | Qualifier | 40 - 110 | | | | | | | |
| | 84.7 | | | | | | | | | |

Lab Sample ID: MB 160-502505/23-A
Matrix: Water
Analysis Batch: 505467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502505

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|----------|--------------|-----------------|-----------------|------|-------|-------|----------------|----------------|---------|
| | Result | MB Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | -0.01676 | U | 0.0674 | 0.0674 | 1.00 | 0.141 | pCi/L | 03/19/21 09:03 | 04/13/21 08:39 | 1 |
| Carrier | MB | | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | %Yield | MB Qualifier | 40 - 110 | | | | | 03/19/21 09:03 | 04/13/21 08:39 | 1 |
| | 78.8 | | | | | | | | | |

Lab Sample ID: LCS 160-502505/1-A
Matrix: Water
Analysis Batch: 505458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502505

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------|------|-------|-------|------|--------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.3 | 11.28 | | 1.18 | 1.00 | 0.149 | pCi/L | 99 | 75 - 125 |

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

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

Lab Sample ID: LCS 160-502505/1-A
Matrix: Water
Analysis Batch: 505458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502505

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|------------|---------------|------------------|----------|
| Ba Carrier | 68.5 | | 40 - 110 |

Lab Sample ID: LCSD 160-502505/2-A
Matrix: Water
Analysis Batch: 505458

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 502505

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. | | RER | RER |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|----------|------|-------|-----|
| | | | | | | | | | Limits | RER | Limit | |
| Radium-226 | 11.3 | 11.04 | | 1.14 | 1.00 | 0.114 | pCi/L | 97 | 75 - 125 | 0.10 | | 1 |

| Carrier | LCSD %Yield | LCSD Qualifier | Limits |
|------------|----------------|-------------------|----------|
| Ba Carrier | 78.8 | | 40 - 110 |

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-502475/22-A
Matrix: Water
Analysis Batch: 503373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502475

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | | Analyzed | | Dil Fac |
|------------|--------------|-----------------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|----------|----------|---------|
| | | | | | | | | Prepared | Analyzed | Prepared | Analyzed | |
| Radium-228 | 0.3596 | U | 0.266 | 0.268 | 1.00 | 0.416 | pCi/L | 03/18/21 16:38 | 03/26/21 12:41 | | | 1 |

| Carrier | MB %Yield | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------------|-----------------|----------|----------------|----------------|---------|
| Ba Carrier | 82.6 | | 40 - 110 | 03/18/21 16:38 | 03/26/21 12:41 | 1 |
| Y Carrier | 84.9 | | 40 - 110 | 03/18/21 16:38 | 03/26/21 12:41 | 1 |

Lab Sample ID: LCS 160-502475/1-A
Matrix: Water
Analysis Batch: 503373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502475

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. | |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|----------|-----|
| | | | | | | | | | Limits | RER |
| Radium-228 | 7.33 | 7.614 | | 0.945 | 1.00 | 0.403 | pCi/L | 104 | 75 - 125 | |

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|------------|---------------|------------------|----------|
| Ba Carrier | 88.5 | | 40 - 110 |
| Y Carrier | 84.5 | | 40 - 110 |

Lab Sample ID: 180-118348-12 DU
Matrix: Water
Analysis Batch: 503373

Client Sample ID: WGWC-17
Prep Type: Total/NA
Prep Batch: 502475

| Analyte | Sample Result | Sample Qual | DU Result | DU Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | RER | |
|------------|------------------|----------------|--------------|------------|-----------------------------|------|-------|-------|------|-------|
| | | | | | | | | | RER | Limit |
| Radium-228 | 0.175 | U | 0.07724 | U | 0.220 | 1.00 | 0.385 | pCi/L | 0.20 | 1 |

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

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

Lab Sample ID: 180-118348-12 DU
Matrix: Water
Analysis Batch: 503373

Client Sample ID: WGWC-17
Prep Type: Total/NA
Prep Batch: 502475

| | DU | DU | |
|------------|--------|-----------|----------|
| Carrier | %Yield | Qualifier | Limits |
| Ba Carrier | 84.7 | | 40 - 110 |
| Y Carrier | 82.6 | | 40 - 110 |

Lab Sample ID: MB 160-502508/23-A
Matrix: Water
Analysis Batch: 503704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502508

| Analyte | MB MB | | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| Radium-228 | 0.1766 | U | 0.276 | 0.277 | 1.00 | 0.466 | pCi/L | 03/19/21 09:39 | 03/30/21 14:22 | 1 |

| Carrier | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| | %Yield | Qualifier | | | | |
| Ba Carrier | 78.8 | | 40 - 110 | 03/19/21 09:39 | 03/30/21 14:22 | 1 |
| Y Carrier | 88.2 | | 40 - 110 | 03/19/21 09:39 | 03/30/21 14:22 | 1 |

Lab Sample ID: LCS 160-502508/1-A
Matrix: Water
Analysis Batch: 503689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502508

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

| Carrier | LCS | LCS | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 68.5 | | 40 - 110 |
| Y Carrier | 83.0 | | 40 - 110 |

Lab Sample ID: LCSD 160-502508/2-A
Matrix: Water
Analysis Batch: 503689

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 502508

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER |
|------------|----------------|----------------|--------------|-----------------------------|------|-------|-------|------|-----------------|------|-------|
| | | | | | | | | | | | Limit |
| Radium-228 | 7.32 | 8.940 | | 1.12 | 1.00 | 0.472 | pCi/L | 122 | 75 - 125 | 0.21 | 1 |

| Carrier | LCSD | LCSD | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 78.8 | | 40 - 110 |
| Y Carrier | 83.0 | | 40 - 110 |

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Rad

Prep Batch: 502473

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 180-118348-1 | WGWA-1 | Total/NA | Water | PrecSep-21 | |
| 180-118348-2 | WGWA-2 | Total/NA | Water | PrecSep-21 | |
| 180-118348-3 | WGWA-3 | Total/NA | Water | PrecSep-21 | |
| 180-118348-4 | WGWA-4 | Total/NA | Water | PrecSep-21 | |
| 180-118348-5 | WGWA-5 | Total/NA | Water | PrecSep-21 | |
| 180-118348-6 | WGWA-6 | Total/NA | Water | PrecSep-21 | |
| 180-118348-7 | WGWA-7 | Total/NA | Water | PrecSep-21 | |
| 180-118348-8 | WGWA-18 | Total/NA | Water | PrecSep-21 | |
| 180-118348-9 | WGWC-8 | Total/NA | Water | PrecSep-21 | |
| 180-118348-10 | Dup-1 | Total/NA | Water | PrecSep-21 | |
| 180-118348-11 | WGWC-16 | Total/NA | Water | PrecSep-21 | |
| 180-118348-12 | WGWC-17 | Total/NA | Water | PrecSep-21 | |
| 180-118348-13 | EB-1 | Total/NA | Water | PrecSep-21 | |
| 180-118348-14 | EB-2 | Total/NA | Water | PrecSep-21 | |
| 180-118348-15 | FB-1 | Total/NA | Water | PrecSep-21 | |
| MB 160-502473/22-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-502473/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| 180-118348-12 DU | WGWC-17 | Total/NA | Water | PrecSep-21 | |

Prep Batch: 502475

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 180-118348-1 | WGWA-1 | Total/NA | Water | PrecSep_0 | |
| 180-118348-2 | WGWA-2 | Total/NA | Water | PrecSep_0 | |
| 180-118348-3 | WGWA-3 | Total/NA | Water | PrecSep_0 | |
| 180-118348-4 | WGWA-4 | Total/NA | Water | PrecSep_0 | |
| 180-118348-5 | WGWA-5 | Total/NA | Water | PrecSep_0 | |
| 180-118348-6 | WGWA-6 | Total/NA | Water | PrecSep_0 | |
| 180-118348-7 | WGWA-7 | Total/NA | Water | PrecSep_0 | |
| 180-118348-8 | WGWA-18 | Total/NA | Water | PrecSep_0 | |
| 180-118348-9 | WGWC-8 | Total/NA | Water | PrecSep_0 | |
| 180-118348-10 | Dup-1 | Total/NA | Water | PrecSep_0 | |
| 180-118348-11 | WGWC-16 | Total/NA | Water | PrecSep_0 | |
| 180-118348-12 | WGWC-17 | Total/NA | Water | PrecSep_0 | |
| 180-118348-13 | EB-1 | Total/NA | Water | PrecSep_0 | |
| 180-118348-14 | EB-2 | Total/NA | Water | PrecSep_0 | |
| 180-118348-15 | FB-1 | Total/NA | Water | PrecSep_0 | |
| MB 160-502475/22-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-502475/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| 180-118348-12 DU | WGWC-17 | Total/NA | Water | PrecSep_0 | |

Prep Batch: 502505

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 180-118398-1 | WGWC-15 | Total/NA | Water | PrecSep-21 | |
| 180-118398-2 | WGWC-10 | Total/NA | Water | PrecSep-21 | |
| 180-118398-3 | WGWC-11 | Total/NA | Water | PrecSep-21 | |
| 180-118398-4 | WGWC-13 | Total/NA | Water | PrecSep-21 | |
| 180-118398-5 | WGWC-14A | Total/NA | Water | PrecSep-21 | |
| 180-118398-6 | WGWC-9 | Total/NA | Water | PrecSep-21 | |
| 180-118398-7 | WGWC-19 | Total/NA | Water | PrecSep-21 | |
| 180-118398-8 | Dup-2 | Total/NA | Water | PrecSep-21 | |
| 180-118398-9 | FB-2 | Total/NA | Water | PrecSep-21 | |

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-118348-2

Rad (Continued)

Prep Batch: 502505 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 180-118398-10 | WGWC-12 | Total/NA | Water | PrecSep-21 | |
| MB 160-502505/23-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-502505/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-502505/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

Prep Batch: 502508

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 180-118398-1 | WGWC-15 | Total/NA | Water | PrecSep_0 | |
| 180-118398-2 | WGWC-10 | Total/NA | Water | PrecSep_0 | |
| 180-118398-3 | WGWC-11 | Total/NA | Water | PrecSep_0 | |
| 180-118398-4 | WGWC-13 | Total/NA | Water | PrecSep_0 | |
| 180-118398-5 | WGWC-14A | Total/NA | Water | PrecSep_0 | |
| 180-118398-6 | WGWC-9 | Total/NA | Water | PrecSep_0 | |
| 180-118398-7 | WGWC-19 | Total/NA | Water | PrecSep_0 | |
| 180-118398-8 | Dup-2 | Total/NA | Water | PrecSep_0 | |
| 180-118398-9 | FB-2 | Total/NA | Water | PrecSep_0 | |
| 180-118398-10 | WGWC-12 | Total/NA | Water | PrecSep_0 | |
| MB 160-502508/23-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-502508/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-502508/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |



Chain of Custody Record



| | | | | | | | | | |
|--|--|---|--|---|--|---|--|---|--|
| Client Information | | Sampler: <u>R. Walker / H. Aid / T. Goble</u> | | Lab PM: <u>Brown, Shali</u> | | Carrier Tracking No(s): | | COC No: | |
| Client Contact: <u>SCS Contacts</u> | | Phone: <u>770-594-5998</u> | | E-Mail: <u>shali.brown@eurofinset.com</u> | | Page: <u>1 of 2</u> | | Job #: | |
| Company: <u>GA Power</u> | | Address: <u>241 Ralph McGill Blvd SE</u> | | City: <u>Atlanta</u> | | State, Zip: <u>GA, 30308</u> | | Phone: <u>404-506-7116(Tel)</u> | |
| Email: <u>SCS Contacts</u> | | PO #: <u>SCS10382606</u> | | WO #: <u>18019922</u> | | Project #: <u>CCR - Plant Wansley Ash Pond</u> | | Site: <u></u> | |
| Due Date Requested: | | TAT Requested (days): | | Field Filtered Sample (Yes or No) | | Perform MS/MSD (Yes or No) | | Analysis Requested | |
| Sample Identification | | Sample Date | | Sample Time | | Sample Type (C=comp, G=grab) | | Matrix (W=water, S=sediment, O=water/soil, BT=issue, AA=air) | |
| WG-WA-1 | | 3-11-21 | | 0935 | | G | | Water | |
| WG-WA-2 | | 3-10-21 | | 0855 | | G | | Water | |
| WG-WA-3 | | 3-10-21 | | 1054 | | G | | Water | |
| WG-WA-4 | | 3-10-21 | | 1217 | | G | | Water | |
| WG-WA-5 | | 3-10-21 | | 1705 | | G | | Water | |
| WG-WA-6 | | 3-11-21 | | 1058 | | G | | Water | |
| WG-WA-7 | | 3-10-21 | | 1345 | | G | | Water | |
| WG-WA-18 | | 3-10-21 | | 1542 | | G | | Water | |
| WG-WC-8 | | 3-11-21 | | 1212 | | G | | Water | |
| Dup-1 | | 3-10-21 | | - | | G | | Water | |
| Special Instructions/Note: <u>App III and App IV Event</u> | | Total Number of Containers | | pH= <u>5.26</u> | | pH= <u>6.11</u> | | pH= <u>5.49</u> | |
| | | | | pH= <u>7.19</u> | | pH= <u>5.22</u> | | pH= <u>7.93</u> | |
| | | | | pH= <u>4.96</u> | | pH= <u>5.80</u> | | pH= <u>5.35</u> | |
| | | | | pH= <u></u> | | pH= <u></u> | | pH= <u></u> | |
| | | | | pH= <u></u> | | pH= <u></u> | | pH= <u></u> | |
| Possible Hazard Identification | | <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant | | <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <u> </u> Months | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | Empty Kit Relinquished by: | | Date: | | Special Instructions/QC Requirements: | | Method of Shipment: | |
| Relinquished by: <u>Abdullah</u> | | Date/Time: <u>3-11-21/1645</u> | | Company: <u>ACC</u> | | Received by: <u>Shali Brown</u> | | Date/Time: <u>3/11/21 16:45</u> | |
| Relinquished by: <u>Shali Brown</u> | | Date/Time: <u>3/11/21 17:00</u> | | Company: <u>GA Power</u> | | Received by: <u>Shali Brown</u> | | Date/Time: <u>3-12-21 8:30</u> | |
| Relinquished by: <u>Shali Brown</u> | | Date/Time: <u>3/11/21 17:00</u> | | Company: <u>GA Power</u> | | Received by: <u>Shali Brown</u> | | Date/Time: <u>3-12-21 8:30</u> | |
| Custody Seals Intact: <u>Δ Yes Δ No</u> | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | | | | |



Chain of Custody Record

Client Information
 Client Contact: R. Walker / H. Add / T. Goble
 SCS Contacts: 770-594-5998
 Company: GA Power
 Address: 241 Ralph McGill Blvd SE
 City: Atlanta
 State, Zip: GA, 30308
 Phone: 404-506-7116 (Tel)
 Email: SCS10382606
 SCS Contacts: WO #:
 Project #: 18019922
 CCR - Plant Wansley Ash Pond
 Site: SSOW#:

Lab PM: Brown, Shali
 E-Mail: shali.brown@eurofinset.com

Carrier Tracking No(s):
 COC No:
 Page: 2 of 2
 Job #:

Analysis Requested

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=soil, BT=tissue, A=air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | App III Metals (B, Ca) | Cl, F, SO & TDS (EPA 300 & SM 2540c) | Major Ions - Bicarbonate Alkalinity, Total Alkalinity, Iron, Magnesium, Manganese, Potassium, Sodium, Sulfide | Detected App IV Metals (EPA 6020/470): Sb, As, Ba, Be, Cr, Co, Pb, Li, Mo, Se, Ti | Radium 226 & 228 (SW-846 9315/9320) | Total Number of Containers | Special Instructions/Note: App III and App IV Event |
|-----------------------|----------------|-------------|------------------------------|---|-----------------------------------|----------------------------|------------------------|--------------------------------------|---|--|-------------------------------------|----------------------------|--|
| <u>WG-WC-16</u> | <u>3-11-21</u> | <u>1347</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>6</u> | <u>pH= 5.21</u> |
| <u>WG-WC-17</u> | <u>3-11-21</u> | <u>1210</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>8</u> | <u>pH= 5.96</u> |
| <u>EB-1</u> | <u>3-11-21</u> | <u>1100</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>6</u> | <u>pH=</u> |
| <u>EB-2</u> | <u>3-11-21</u> | <u>1355</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>6</u> | <u>pH=</u> |
| <u>FB-1</u> | <u>3-11-21</u> | <u>1030</u> | <u>G</u> | <u>Water</u> | <u>N</u> | <u>N</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>6</u> | <u>pH=</u> |
| | | | <u>G</u> | <u>Water</u> | | | | | | | | | <u>pH=</u> |
| | | | <u>G</u> | <u>Water</u> | | | | | | | | | <u>pH=</u> |
| | | | <u>G</u> | <u>Water</u> | | | | | | | | | <u>pH=</u> |
| | | | <u>G</u> | <u>Water</u> | | | | | | | | | <u>pH=</u> |
| | | | <u>G</u> | <u>Water</u> | | | | | | | | | <u>pH=</u> |
| | | | <u>G</u> | <u>Water</u> | | | | | | | | | <u>pH=</u> |
| | | | <u>G</u> | <u>Water</u> | | | | | | | | | <u>pH=</u> |

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

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: Shali Brown Date: 3/11/21
 Relinquished by: Acc Date: 3/11/21 1645
 Relinquished by: EDL Date: 3/11/21 17:00
 Relinquished by: EDL Date: 3/11/21
 Received by: Shali Brown Date/Time: 3/11/21 16:45
 Received by: Shali Brown Date/Time: 3-12-21
 Received by: Shali Brown Date/Time: 8:30

Custody Seal No.:
 Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record

| | | | | | | | |
|---|--------------|--|------|-------------------------------------|-------|--|----------------------|
| Client Information | | Sampler: Lab PM: Brown, Shalli Phone: 770-544-5998 E-Mail: shalli.brown@eurolins.com | | Carrier Tracking No(s): | | COC No: | |
| Client Contact: SCS Contacts | | E-Mail: shalli.brown@eurolins.com | | Page: 1 of 1 | | Job #: | |
| Company: GA Power | | Due Date Requested: | | Analysis Requested | | Preservation Codes: M - Hexane A - HCL N - None C - AsNaO ₂ | |
| Address: 241 Ralph McGill Blvd SE | | TAT Requested (days): | | Field Filtered Sample (Yes or No) | | Special Instructions/Note: App III and App IV Event | |
| City: Atlanta | | PO #: SCS10382606 | | Perform MS/MSD (Yes or No) | | Total Number of containers | |
| State, Zip: GA, 30308 | | WO #: | | Matrix (Water, Solid, or Waste/Oil) | | Other: | |
| Phone: 404-506-7116(Tel) | | Project #: 18019922 | | Sample Type (C=comp, G=grab) | | 180-118398 Chain of Custody hydrate | |
| Email: SCS Contacts | | SSOW#: | | Preservation Code: | | | |
| Project Name: CCR - Plant Wansley Ash Pond | | Sample Date | | Sample Time | | Special Instructions/Note: App III and App IV Event | |
| Site: | | Sample Date | | Sample Time | | Total Number of containers | |
| Sample Identification | | Sample Date | | Sample Time | | Special Instructions/Note: App III and App IV Event | |
| WGWC-9 | WGWC-15 (HP) | 3-12-21 | 1157 | G | Water | ✓ | pH= 7.72 |
| WGWC-10 | | 3-11-21 | 1625 | G | Water | ✓ | pH= 6.56 |
| WGWC-11 | | 3-12-21 | 1154 | G | Water | ✓ | pH= 5.46 |
| WGWC-13 | | 3-11-21 | 1353 | G | Water | ✓ | pH= 5.95 |
| WGWC-14A | | 3-11-21 | 1516 | G | Water | ✓ | pH= 5.10 |
| WGWC-15 | WGWC-9 (HP) | 3-12-21 | 1407 | G | Water | ✓ | pH= 5.88 + note=1007 |
| WGWC-19 | | 3-11-21 | 1455 | G | Water | ✓ | pH= 7.12 |
| Dup-2 | | 3-11-21 | | G | Water | ✓ | pH= |
| FB-2 | | 3-12-21 | 1205 | G | Water | ✓ | pH= |
| WGWC-12 | | 3-12-21 | 1059 | G | Water | ✓ | pH= 6.66 |
| | | | | G | Water | ✓ | pH= |

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

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

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

Special Instructions/QC Requirements:

| | | |
|----------------------------|----------------------------|---------------------|
| Empty Kit Relinquished by: | Date: | Method of Shipment: |
| Relinquished by: | Date/Time: 3-12-21 / 1530 | Company: ACC |
| Relinquished by: | Date/Time: 3/12/21 / 16:00 | Company: EPA |
| Relinquished by: | Date/Time: | Company: |

Custody Seals Intact: Yes No Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:



180-118348 Waybill

... Making This Tag

| | | |
|-------------------------------------|-----------|------|
| Ref: PLT WANSLEY ACCC Date: 11Mar21 | SHIPPING: | 0.00 |
| Wgt: 58.40 LBS | SPECIAL: | 0.00 |
| DV: | HANDLING: | 0.00 |
| | TOTAL: | 0.00 |

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6580



Environment Testing
TestAmerica

Pat # 159469-484 RITZ EXP 11/21

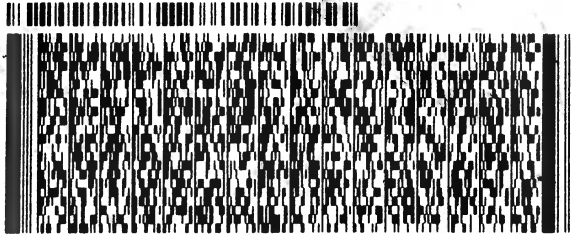
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECEIPT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: PLT WANSLEY ACCC



FedEx
Express



120112012186114

3 of 6 **FRI - 12 MAR 4:30P**
STANDARD OVERNIGHT

MPS# 1516 9328 6580
0263
Mstr# 1516 9328 6568

0201

NA AGCA

15238
PA-US PIT

Uncorrected temp 2.5 °C
Thermometer ID 14

CF 0 Initials sj

PT-WI-SR-001 effective 11/8/18



DV:

0.00 TOTAL:

00
0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6605

Part # 159409-434 RITZ EXP 11/21



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

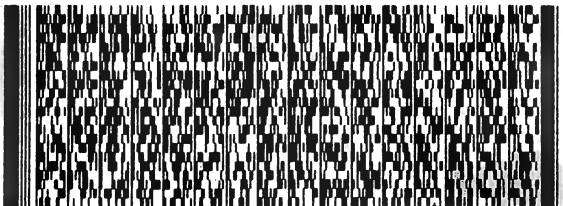
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECEIPT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058

REF: PLT WANSLEY ACCC



FedEx
Express



4010151610211021

5 of 6

MPS# 1516 9328 6605
0263

Mstr# 1516 9328 6568

0201

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

15238
PA-US PIT

Uncorrected temp
Thermometer ID

22 °C

14

CF 0 Initials J

PT-WI-SR-001 effective 11/8/18





| | | | |
|-----------------------|----------------|-------------|------|
| Ref: PLT WANSLEY ACCC | Date: 11Mar21 | SHIPPING: | 0.00 |
| Dep: | Wgt: 58.40 LBS | SPECIAL: | 0.00 |
| | DV: | HANDLING: | 0.00 |
| | | 0.00 TOTAL: | 0.00 |

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRACK: 1516 9328 6579



Environment Testing
TestAmerica

Part # 15968-436 RITZ EXP 11/21

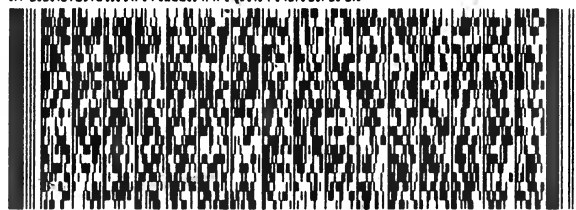
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: PLT WANSLEY ACCC



FedEx
Express



J20112012180114

2 of 6
MPS# 1516 9328 6579
0263
Mstr# 1516 9328 6568

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

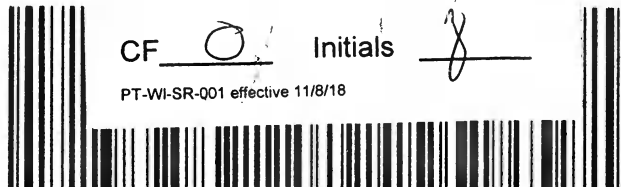
15238
PIT

Uncorrected temp
Thermometer ID

29 °C
19

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18



Ref: PLT WANSLEY ACCC Date: 11Mar21
Dep: Wgt: 58.40 LBS
DV: 0.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6616



Environment Testing
TestAmerica

3469-434 RIT2 EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

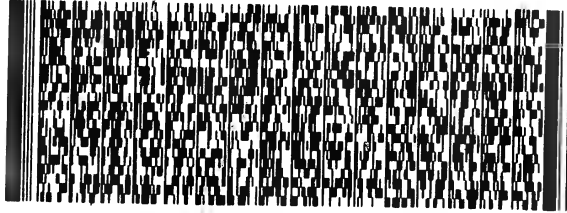
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068

REF: PLT WANSLEY ACCC



FedEx
Express



6 of 6

MPS# 1516 9328 6616
0263

Mstr# 1516 9328 6568

0201

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

Uncorrected temp
Thermometer ID

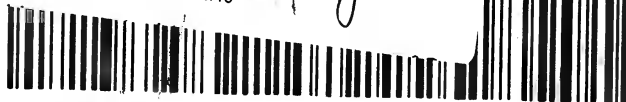
2.5
19 °C

15238

PA-US PIT

CF 0 Initials g

PT-WI-SR-001 effective 11/8/18



Do Not Lift Using This Tag

Ref: PLT WANSLEY ACCC Date: 11Mar21 SHIPPING: 0.00
Dep: Wgt: 58.40 LBS SPECIAL: 0.00
DV: 0.00 HANDLING: 0.00
TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6590



Environment Testing
TestAmerica

Part # 159469-434 RITZ EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

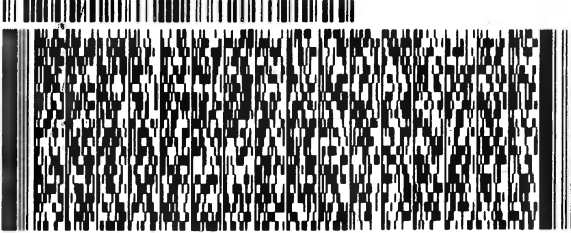
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBORGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 863-7068

REF: PLT WANSLEY ACCC



FedEx
Express



AN100102120211021

4 of 6
MPS# 1516 9328 6590
0263
Mstr# 1516 9328 6568

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

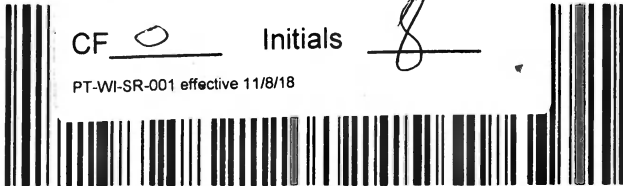
15238
PIT

Uncorrected temp
Thermometer ID

2.5 °C US
119

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18





Do Not Lift Using This Tag



**Environment Testing
TestAmerica**

Pat # 159465-434 RIT2 EXP 11/21

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

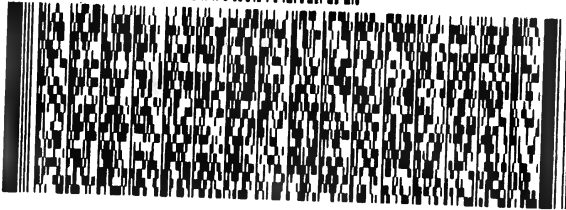
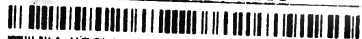
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

**TO SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238**

(412) 963-7058

REF: PLT WANSLEY ACCC



**FedEx
Express**



AN1031210211021

1 of 6
TRK# 1516 9328 6568
0201
MASTER

**FRI - 12 MAR 4:30P
STANDARD OVERNIGHT**

NA AGCA

Uncorrected temp
Thermometer ID

2.8 °C
14
us PIT

CF Initials

PT-WI-SR-001 effective 11/8/18



Do Not Lift L

639

Tao

FZ

Part # 159469-434 RIT2 EXP 11/21



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

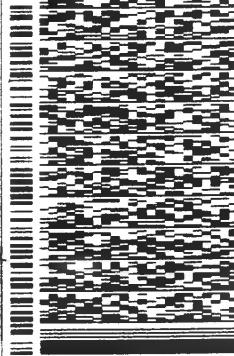
SHIP DATE: 12MAR21
ACTWGT: 60.05 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: ACC



FedEx
Express



2 of 3
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 1516 9328 6980

Mstr# 0263

Uncorrected temp

Thermometer ID

3.5 °C

14

Initials

PT-WI-SR-001 effective 11/8/18

15238

PIT

A-US



FedEx Saturday Delivery

151967 REY

Do Not Lift Using This Tag



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

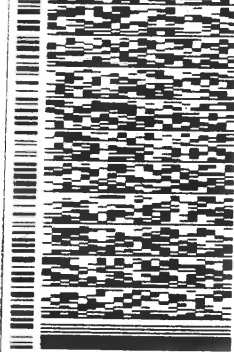
SHIP DATE: 12MAR21
ACTWGT: 60.05 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: ACC



FedEx
Express



1 of 3
SATURDAY 12:00
PRIORITY OVERNIGHT

TRK# 1516 9328 6970

0201

MASTER #

XO AGCA

15238

PA-US

PI

31240 #M

12
13



180-118398 Waybill

Do Not Lift Using This Tag



Env
TestA

RT 639
FZ

12:00 6991
03.13

EXP 11/21

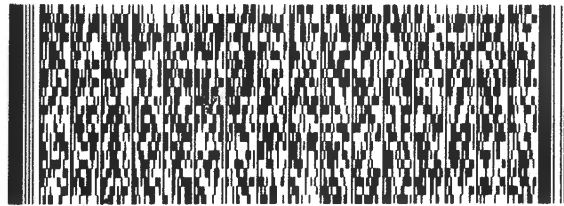
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 12MAR21
ACTWGT: 60.05 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: ACC



FedEx
Express



BY 10001212011107

3 of 3

MPS# 1516 9328 6991

Mstr# 1516 9328 6970

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

Uncorrected temp
Thermometer ID

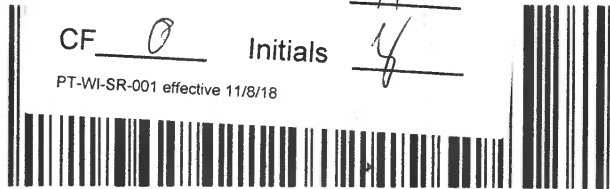
2.6 °C

14

CF 0 Initials Y

15238
PA-US PIT

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): 180-428867.1 |
| Client Contact: Shipping/Receiving | | E-Mail: Shali.Brown@Eurofins.com | Page: Page 1 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): | Job #: 180-118348-2 |
| Address: 13715 Rider Trail North, Earth City MO, 63045 | | Analysis Requested | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AshNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify) |
| Due Date Requested: 4/15/2021 | TAT Requested (days): | Field Filtered Sample (Yes or No) | Total Number of Containers |
| PO #: | WO #: | Perform MSM/SD (Yes or No) | |
| Project #: 18019922 | SSOW#: | 9320_Ra226/PreSep_0 Radium 228 | |
| | | 9315_Ra226/PreSep_21 Radium 226 | |
| | | Ra226Ra228_GFP/Combined Radium-226 and Radium-228 | |
| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) |
| | | | Matrix (W=water, S=solid, O=waste/oil, BT=tissue, AB=air) |
| | | | Preservation Code: |
| WGWA-1 (180-118348-1) | 3/11/21 | 09:35 Eastern | Water |
| WGWA-2 (180-118348-2) | 3/10/21 | 08:55 Eastern | Water |
| WGWA-3 (180-118348-3) | 3/10/21 | 10:54 Eastern | Water |
| WGWA-4 (180-118348-4) | 3/10/21 | 12:17 Eastern | Water |
| WGWA-5 (180-118348-5) | 3/10/21 | 17:05 Eastern | Water |
| WGWA-6 (180-118348-6) | 3/11/21 | 10:58 Eastern | Water |
| WGWA-7 (180-118348-7) | 3/10/21 | 13:45 Eastern | Water |
| WGWA-8 (180-118348-8) | 3/10/21 | 15:42 Eastern | Water |
| WGWC-8 (180-118348-9) | 3/11/21 | 12:12 Eastern | Water |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/ests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p> | | | |
| Possible Hazard Identification | | | |
| Unconfirmed | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | Primary Deliverable Rank: 2 | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | |
| <input type="checkbox"/> Return To Client | | <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | |
| Special Instructions/QC Requirements: | | | |
| Empty Kit Relinquished by: | | Time: | |
| Relinquished by: <i>MS</i> | | Date: 3/16/21 17:00 | |
| Relinquished by: FED EX | | Company: FEDEX | |
| Relinquished by: | | Company: ETA PT | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Received by: <i>Suzanne Wallyson</i> | |
| Custody Seal No.: | | Date/Time: 3/17/21 0905 | |
| Cooler Temperature(s) °C and Other Remarks: | | Company: ETA PT | |

| | | | |
|--|---|---|---|
| Client Information (Sub Contract Lab) | | Lab PM: Brown, Shali | Carrier Tracking No(s): COC No: 180-428867.2 |
| Client Contact: Shipping/Receiving | | E-Mail: Shali.Brown@Eurofins.com | State of Origin: Georgia |
| Company: TestAmerica Laboratories, Inc. | | Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email: | Page: Page 2 of 2 Job #: 180-118348-2 |
| Due Date Requested: 4/15/2021 | | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) | |
| TAT Requested (days): | | Analysis Requested | |
| PO #: | WO #: | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) |
| Project #: 18019922 | SSOW#: | 9320_Ra228/PreSep_0 Radium 228 | 9315_Ra226/PreSep_21 Radium 226 |
| Site: Wansley CCR | Project Name: CCR - Plant Wansley Ash Pond | Radium-228 | Radium-228 |
| Sample Identification - Client ID (Lab ID) | | Total Number of Containers | |
| Dup-1 (180-118348-10) | Sample Date: 3/10/21 | Sample Time: Eastern | Matrix: Water |
| WGWC-16 (180-118348-11) | Sample Date: 3/11/21 | Sample Time: 13:47 Eastern | Matrix: Water |
| WGWC-17 (180-118348-12) | Sample Date: 3/11/21 | Sample Time: 12:10 Eastern | Matrix: Water |
| EB-1 (180-118348-13) | Sample Date: 3/11/21 | Sample Time: 11:00 Eastern | Matrix: Water |
| EB-2 (180-118348-14) | Sample Date: 3/11/21 | Sample Time: 13:55 Eastern | Matrix: Water |
| FB-1 (180-118348-15) | Sample Date: 3/11/21 | Sample Time: 10:30 Eastern | Matrix: Water |
| Special Instructions/Note: | | | |
| Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica | | | |
| Possible Hazard Identification | | | |
| Unconfirmed | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | Primary Deliverable Rank: 2 | |
| Empty Kit Relinquished by: | | | |
| Relinquished by: <i>NY</i> | Date: 3/10/21 1700 | Received by: <i>Shali Brown</i> | Date/Time: 3/17/21 0905 |
| Relinquished by: FED EX | Date/Time: 3/10/21 1700 | Received by: <i>Shali Brown</i> | Date/Time: 3/17/21 0905 |
| Relinquished by: | Date/Time: | Received by: | Date/Time: |
| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Company: <i>ETAR</i> | Company: <i>ETAR</i> |
| Cooler Temperature(s) °C and Other Remarks: | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | |
| <input type="checkbox"/> Return To Client | | <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | |
| Special Instructions/QC Requirements: | | | |
| Time: _____ Method of Shipment: _____ | | | |

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118348-2

Login Number: 118348

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118348-2

Login Number: 118348

List Source: Eurofins TestAmerica, St. Louis

List Number: 2

List Creation: 03/17/21 11:11 AM

Creator: Worthington, Sierra M

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118348-2

Login Number: 118398

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118348-2

Login Number: 118398

List Source: Eurofins TestAmerica, St. Louis

List Number: 2

List Creation: 03/17/21 11:11 AM

Creator: Worthington, Sierra M

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



ANALYTICAL REPORT

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

Laboratory Job ID: 180-118172-1
Client Project/Site: Plant Wansley Ash Pond PZ
Revision: 2

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
5/4/2021 5:59:30 PM

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

LINKS

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

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

PA Lab ID: 02-00416





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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Job ID: 180-118172-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-118172-1**

Comments

050421 Revised report to add Lithium to the following samples at client request: 180-118172-1 (PZ-22), 180-118172-2 (PZ-23S), 180-118172-3 (PZ-24), 180-118172-4 (PZ-27S). This report replaces the report previously issued on 031921.

031921 Revised report to change metals units from ug/L to mg/L. This report replaces the report previously issued on 031821.

Receipt

The samples were received on 3/10/2021 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7° C.

GC Semi VOA

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

Metals

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

Field Service / Mobile Lab

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 Wansley Ash Pond PZ

Job ID: 180-118172-1

Qualifiers

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

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

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 180-118172-1 | PZ-22 | Water | 03/08/21 15:25 | 03/10/21 09:00 | |
| 180-118172-2 | PZ-23S | Water | 03/09/21 12:30 | 03/10/21 09:00 | |
| 180-118172-3 | PZ-24 | Water | 03/09/21 10:50 | 03/10/21 09:00 | |
| 180-118172-4 | PZ-27S | Water | 03/08/21 14:00 | 03/10/21 09:00 | |
| 180-118172-5 | PZ-27D | Water | 03/08/21 13:00 | 03/10/21 09:00 | |
| 180-118172-6 | FB-1 | Water | 03/09/21 12:50 | 03/10/21 09:00 | |
| 180-118172-7 | Dup-1 | Water | 03/08/21 00:00 | 03/10/21 09:00 | |
| 180-118172-8 | EB-1 | Water | 03/09/21 11:00 | 03/10/21 09:00 | |

NOTE:
PZ-22 has been reclassified as WGWC-20
PZ-23S has been reclassified as WGWC-21
PZ-24 has been reclassified as WGWC-22
PZ-27S has been reclassified as WGWC-25



Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

| Method | Method Description | Protocol | Laboratory |
|----------------|--|----------|------------|
| EPA 300.0 R2.1 | Anions, Ion Chromatography | EPA | TAL PIT |
| EPA 6020B | Metals (ICP/MS) | SW846 | TAL PIT |
| EPA 9034 | Sulfide, Acid soluble and Insoluble (Titrimetric) | SW846 | TAL PIT |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL PIT |
| SM2320 B | Alkalinity, Total | SM18 | TAL PIT |
| Field Sampling | Field Sampling | EPA | TAL PIT |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | TAL PIT |
| 9030B | Sulfide, Distillation (Acid Soluble and Insoluble) | SW846 | TAL PIT |

Protocol References:

EPA = US Environmental Protection Agency

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

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-22

Lab Sample ID: 180-118172-1

Date Collected: 03/08/21 15:25

Matrix: Water

Date Received: 03/10/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 Instrument ID: INTEGRION | | 1 | | | 349204 | 03/12/21 16:38 | EPS | TAL PIT |
| Total/NA | Analysis | EPA 300.0 R2.1 Instrument ID: INTEGRION | | 5 | | | 349204 | 03/12/21 16:56 | EPS | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349140 | 03/11/21 15:11 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: A | | 1 | | | 349307 | 03/12/21 11:52 | RSK | TAL PIT |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349117 | 03/11/21 14:00 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 Instrument ID: NOEQUIP | | 1 | | | 349236 | 03/11/21 16:16 | CMR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 349487 | 03/15/21 20:25 | GRB | TAL PIT |
| Total/NA | Analysis | SM2320 B Instrument ID: PCTITRATOR | | 1 | | | 349535 | 03/13/21 14:45 | REI | TAL PIT |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 349443 | 03/08/21 15:25 | FDS | TAL PIT |

Client Sample ID: PZ-23S

Lab Sample ID: 180-118172-2

Date Collected: 03/09/21 12:30

Matrix: Water

Date Received: 03/10/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 Instrument ID: INTEGRION | | 1 | | | 349204 | 03/12/21 16:02 | EPS | TAL PIT |
| Total/NA | Analysis | EPA 300.0 R2.1 Instrument ID: INTEGRION | | 5 | | | 349204 | 03/12/21 16:20 | EPS | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349140 | 03/11/21 15:11 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: A | | 1 | | | 349307 | 03/12/21 12:25 | RSK | TAL PIT |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349117 | 03/11/21 14:00 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 Instrument ID: NOEQUIP | | 1 | | | 349236 | 03/11/21 16:19 | CMR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 349489 | 03/15/21 20:29 | GRB | TAL PIT |
| Total/NA | Analysis | SM2320 B Instrument ID: PCTITRATOR | | 1 | | | 349535 | 03/13/21 15:14 | REI | TAL PIT |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 349443 | 03/09/21 12:30 | FDS | TAL PIT |

NOTE:
PZ-22 has been reclassified as WGWC-20
PZ-23S has been reclassified as WGWC-21
PZ-24 has been reclassified as WGWC-22
PZ-27S has been reclassified as WGWC-25

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-24

Lab Sample ID: 180-118172-3

Date Collected: 03/09/21 10:50

Matrix: Water

Date Received: 03/10/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 349204 | 03/12/21 17:50 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349140 | 03/11/21 15:11 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349307 | 03/12/21 12:29 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349117 | 03/11/21 14:00 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349236 | 03/11/21 16:21 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349489 | 03/15/21 20:29 | GRB | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349535 | 03/13/21 15:32 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349443 | 03/09/21 10:50 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PZ-27S

Lab Sample ID: 180-118172-4

Date Collected: 03/08/21 14:00

Matrix: Water

Date Received: 03/10/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 349204 | 03/12/21 19:01 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349140 | 03/11/21 15:11 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349307 | 03/12/21 12:32 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349117 | 03/11/21 14:00 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349236 | 03/11/21 16:23 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349487 | 03/15/21 20:25 | GRB | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349535 | 03/13/21 15:40 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349443 | 03/08/21 14:00 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PZ-27D

Lab Sample ID: 180-118172-5

Date Collected: 03/08/21 13:00

Matrix: Water

Date Received: 03/10/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 349204 | 03/12/21 15:27 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349140 | 03/11/21 15:11 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349307 | 03/12/21 12:36 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |

NOTE:
PZ-22 has been reclassified as WGWC-20
PZ-23S has been reclassified as WGWC-21
PZ-24 has been reclassified as WGWC-22
PZ-27S has been reclassified as WGWC-25

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-27D

Lab Sample ID: 180-118172-5

Date Collected: 03/08/21 13:00

Matrix: Water

Date Received: 03/10/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349117 | 03/11/21 14:00 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349236 | 03/11/21 16:26 | CMR | TAL PIT |
| | | Instrument ID: NOEQUIP | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349481 | 03/15/21 15:56 | NAF | TAL PIT |
| | | Instrument ID: NOEQUIP | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349535 | 03/13/21 15:50 | REI | TAL PIT |
| | | Instrument ID: PCTITRATOR | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349443 | 03/08/21 13:00 | FDS | TAL PIT |
| | | Instrument ID: NOEQUIP | | | | | | | | |

Client Sample ID: FB-1

Lab Sample ID: 180-118172-6

Date Collected: 03/09/21 12:50

Matrix: Water

Date Received: 03/10/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 349204 | 03/12/21 19:55 | EPS | TAL PIT |
| | | Instrument ID: INTEGRION | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349140 | 03/11/21 15:11 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349307 | 03/12/21 12:39 | RSK | TAL PIT |
| | | Instrument ID: A | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349117 | 03/11/21 14:00 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349236 | 03/11/21 16:28 | CMR | TAL PIT |
| | | Instrument ID: NOEQUIP | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349489 | 03/15/21 20:29 | GRB | TAL PIT |
| | | Instrument ID: NOEQUIP | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349535 | 03/13/21 15:59 | REI | TAL PIT |
| | | Instrument ID: PCTITRATOR | | | | | | | | |

Client Sample ID: Dup-1

Lab Sample ID: 180-118172-7

Date Collected: 03/08/21 00:00

Matrix: Water

Date Received: 03/10/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|---------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 349204 | 03/12/21 18:43 | EPS | TAL PIT |
| | | Instrument ID: INTEGRION | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349140 | 03/11/21 15:11 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349307 | 03/12/21 12:43 | RSK | TAL PIT |
| | | Instrument ID: A | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349117 | 03/11/21 14:00 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349236 | 03/11/21 16:30 | CMR | TAL PIT |
| | | Instrument ID: NOEQUIP | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349487 | 03/15/21 20:25 | GRB | TAL PIT |
| | | Instrument ID: NOEQUIP | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349535 | 03/13/21 16:08 | REI | TAL PIT |
| | | Instrument ID: PCTITRATOR | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: EB-1

Lab Sample ID: 180-118172-8

Date Collected: 03/09/21 11:00

Matrix: Water

Date Received: 03/10/21 09:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 349204 | 03/12/21 20:13 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349140 | 03/11/21 15:11 | TJO | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349307 | 03/12/21 12:58 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349117 | 03/11/21 14:00 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349236 | 03/11/21 16:33 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349487 | 03/15/21 20:25 | GRB | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349535 | 03/13/21 14:36 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

CMR = Carl Reagle

TJO = Tyler Oliver

Batch Type: Analysis

CMR = Carl Reagle

EPS = Evan Scheuer

FDS = Sampler Field

GRB = Gabriel Berghe

NAF = Nicholas Frankos

REI = Rachel Innocenzi

RSK = Robert Kurtz

NOTE:
PZ-22 has been reclassified as WGWC-20

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-22

Lab Sample ID: 180-118172-1

Date Collected: 03/08/21 15:25

Matrix: Water

Date Received: 03/10/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 70 | | 1.0 | 0.71 | mg/L | | | 03/12/21 16:38 | 1 |
| Fluoride | 1.8 | | 0.10 | 0.026 | mg/L | | | 03/12/21 16:38 | 1 |
| Sulfate | 240 | | 5.0 | 3.8 | mg/L | | | 03/12/21 16:56 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 1.3 | | 0.080 | 0.039 | mg/L | | 03/11/21 15:11 | 03/12/21 11:52 | 1 |
| Calcium | 90 | | 0.50 | 0.13 | mg/L | | 03/11/21 15:11 | 03/12/21 11:52 | 1 |
| Iron | 0.061 | | 0.050 | 0.020 | mg/L | | 03/11/21 15:11 | 03/12/21 11:52 | 1 |
| Magnesium | 19 | | 0.50 | 0.083 | mg/L | | 03/11/21 15:11 | 03/12/21 11:52 | 1 |
| Manganese | 0.14 | | 0.0050 | 0.00087 | mg/L | | 03/11/21 15:11 | 03/12/21 11:52 | 1 |
| Potassium | 4.5 | | 0.50 | 0.16 | mg/L | | 03/11/21 15:11 | 03/12/21 11:52 | 1 |
| Sodium | 36 | | 0.50 | 0.35 | mg/L | | 03/11/21 15:11 | 03/12/21 11:52 | 1 |
| Lithium | 0.11 | | 0.0050 | 0.0034 | mg/L | | 03/11/21 15:11 | 03/12/21 11:52 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/11/21 14:00 | 03/11/21 16:16 | 1 |
| Total Dissolved Solids | 590 | | 10 | 10 | mg/L | | | 03/15/21 20:25 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 12 | | 5.0 | 5.0 | mg/L | | | 03/13/21 14:45 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 12 | | 5.0 | 5.0 | mg/L | | | 03/13/21 14:45 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.54 | | | | SU | | | 03/08/21 15:25 | 1 |

NOTE:
PZ-23S has been reclassified as WGWC-21

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-23S

Lab Sample ID: 180-118172-2

Date Collected: 03/09/21 12:30

Matrix: Water

Date Received: 03/10/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 58 | | 1.0 | 0.71 | mg/L | | | 03/12/21 16:02 | 1 |
| Fluoride | 1.7 | | 0.10 | 0.026 | mg/L | | | 03/12/21 16:02 | 1 |
| Sulfate | 230 | | 5.0 | 3.8 | mg/L | | | 03/12/21 16:20 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 0.19 | | 0.080 | 0.039 | mg/L | | 03/11/21 15:11 | 03/12/21 12:25 | 1 |
| Calcium | 66 | | 0.50 | 0.13 | mg/L | | 03/11/21 15:11 | 03/12/21 12:25 | 1 |
| Iron | 0.86 | | 0.050 | 0.020 | mg/L | | 03/11/21 15:11 | 03/12/21 12:25 | 1 |
| Magnesium | 9.3 | | 0.50 | 0.083 | mg/L | | 03/11/21 15:11 | 03/12/21 12:25 | 1 |
| Manganese | 1.9 | | 0.0050 | 0.00087 | mg/L | | 03/11/21 15:11 | 03/12/21 12:25 | 1 |
| Potassium | 3.6 | | 0.50 | 0.16 | mg/L | | 03/11/21 15:11 | 03/12/21 12:25 | 1 |
| Sodium | 120 | | 0.50 | 0.35 | mg/L | | 03/11/21 15:11 | 03/12/21 12:25 | 1 |
| Lithium | 0.022 | | 0.0050 | 0.0034 | mg/L | | 03/11/21 15:11 | 03/12/21 12:25 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/11/21 14:00 | 03/11/21 16:19 | 1 |
| Total Dissolved Solids | 610 | | 10 | 10 | mg/L | | | 03/15/21 20:29 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 110 | | 5.0 | 5.0 | mg/L | | | 03/13/21 15:14 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 110 | | 5.0 | 5.0 | mg/L | | | 03/13/21 15:14 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 7.29 | | | | SU | | | 03/09/21 12:30 | 1 |

NOTE:
PZ-24 has been reclassified as WGWC-22

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-24

Lab Sample ID: 180-118172-3

Date Collected: 03/09/21 10:50

Matrix: Water

Date Received: 03/10/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 2.9 | | 1.0 | 0.71 | mg/L | | | 03/12/21 17:50 | 1 |
| Fluoride | 1.1 | F1 | 0.10 | 0.026 | mg/L | | | 03/12/21 17:50 | 1 |
| Sulfate | 80 | F1 | 1.0 | 0.76 | mg/L | | | 03/12/21 17:50 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 0.33 | | 0.080 | 0.039 | mg/L | | 03/11/21 15:11 | 03/12/21 12:29 | 1 |
| Calcium | 15 | | 0.50 | 0.13 | mg/L | | 03/11/21 15:11 | 03/12/21 12:29 | 1 |
| Iron | 0.21 | | 0.050 | 0.020 | mg/L | | 03/11/21 15:11 | 03/12/21 12:29 | 1 |
| Magnesium | 4.0 | | 0.50 | 0.083 | mg/L | | 03/11/21 15:11 | 03/12/21 12:29 | 1 |
| Manganese | 0.45 | | 0.0050 | 0.00087 | mg/L | | 03/11/21 15:11 | 03/12/21 12:29 | 1 |
| Potassium | 4.4 | | 0.50 | 0.16 | mg/L | | 03/11/21 15:11 | 03/12/21 12:29 | 1 |
| Sodium | 25 | | 0.50 | 0.35 | mg/L | | 03/11/21 15:11 | 03/12/21 12:29 | 1 |
| Lithium | 0.011 | | 0.0050 | 0.0034 | mg/L | | 03/11/21 15:11 | 03/12/21 12:29 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | 2.1 | J | 3.0 | 2.1 | mg/L | | 03/11/21 14:00 | 03/11/21 16:21 | 1 |
| Total Dissolved Solids | 200 | | 10 | 10 | mg/L | | | 03/15/21 20:29 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 27 | | 5.0 | 5.0 | mg/L | | | 03/13/21 15:32 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 27 | | 5.0 | 5.0 | mg/L | | | 03/13/21 15:32 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.56 | | | | SU | | | 03/09/21 10:50 | 1 |

NOTE:
PZ-27S has been reclassified as WGWC-25

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-27S

Lab Sample ID: 180-118172-4

Date Collected: 03/08/21 14:00

Matrix: Water

Date Received: 03/10/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 74 | | 1.0 | 0.71 | mg/L | | | 03/12/21 19:01 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/12/21 19:01 | 1 |
| Sulfate | 4.7 | | 1.0 | 0.76 | mg/L | | | 03/12/21 19:01 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 0.48 | | 0.080 | 0.039 | mg/L | | 03/11/21 15:11 | 03/12/21 12:32 | 1 |
| Calcium | 14 | | 0.50 | 0.13 | mg/L | | 03/11/21 15:11 | 03/12/21 12:32 | 1 |
| Iron | 0.35 | | 0.050 | 0.020 | mg/L | | 03/11/21 15:11 | 03/12/21 12:32 | 1 |
| Magnesium | 17 | | 0.50 | 0.083 | mg/L | | 03/11/21 15:11 | 03/12/21 12:32 | 1 |
| Manganese | 0.32 | | 0.0050 | 0.00087 | mg/L | | 03/11/21 15:11 | 03/12/21 12:32 | 1 |
| Potassium | 3.7 | | 0.50 | 0.16 | mg/L | | 03/11/21 15:11 | 03/12/21 12:32 | 1 |
| Sodium | 9.3 | | 0.50 | 0.35 | mg/L | | 03/11/21 15:11 | 03/12/21 12:32 | 1 |
| Lithium | 0.0046 | J | 0.0050 | 0.0034 | mg/L | | 03/11/21 15:11 | 03/12/21 12:32 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/11/21 14:00 | 03/11/21 16:23 | 1 |
| Total Dissolved Solids | 220 | | 10 | 10 | mg/L | | | 03/15/21 20:25 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 39 | | 5.0 | 5.0 | mg/L | | | 03/13/21 15:40 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 39 | | 5.0 | 5.0 | mg/L | | | 03/13/21 15:40 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.36 | | | | SU | | | 03/08/21 14:00 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-27D

Lab Sample ID: 180-118172-5

Date Collected: 03/08/21 13:00

Matrix: Water

Date Received: 03/10/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 150 | | 1.0 | 0.71 | mg/L | | | 03/12/21 15:27 | 1 |
| Fluoride | 0.38 | | 0.10 | 0.026 | mg/L | | | 03/12/21 15:27 | 1 |
| Sulfate | 160 | | 1.0 | 0.76 | mg/L | | | 03/12/21 15:27 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 0.23 | | 0.080 | 0.039 | mg/L | | 03/11/21 15:11 | 03/12/21 12:36 | 1 |
| Calcium | 33 | | 0.50 | 0.13 | mg/L | | 03/11/21 15:11 | 03/12/21 12:36 | 1 |
| Iron | 0.62 | | 0.050 | 0.020 | mg/L | | 03/11/21 15:11 | 03/12/21 12:36 | 1 |
| Magnesium | 11 | | 0.50 | 0.083 | mg/L | | 03/11/21 15:11 | 03/12/21 12:36 | 1 |
| Manganese | 2.0 | | 0.0050 | 0.00087 | mg/L | | 03/11/21 15:11 | 03/12/21 12:36 | 1 |
| Potassium | 46 | | 0.50 | 0.16 | mg/L | | 03/11/21 15:11 | 03/12/21 12:36 | 1 |
| Sodium | 160 | | 0.50 | 0.35 | mg/L | | 03/11/21 15:11 | 03/12/21 12:36 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/11/21 14:00 | 03/11/21 16:26 | 1 |
| Total Dissolved Solids | 700 | | 10 | 10 | mg/L | | | 03/15/21 15:56 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 190 | | 5.0 | 5.0 | mg/L | | | 03/13/21 15:50 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 190 | | 5.0 | 5.0 | mg/L | | | 03/13/21 15:50 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 7.44 | | | | SU | | | 03/08/21 13:00 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: FB-1

Lab Sample ID: 180-118172-6

Date Collected: 03/09/21 12:50

Matrix: Water

Date Received: 03/10/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 03/12/21 19:55 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/12/21 19:55 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/12/21 19:55 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 0.075 | J | 0.080 | 0.039 | mg/L | | 03/11/21 15:11 | 03/12/21 12:39 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 03/11/21 15:11 | 03/12/21 12:39 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/11/21 15:11 | 03/12/21 12:39 | 1 |
| Magnesium | <0.083 | | 0.50 | 0.083 | mg/L | | 03/11/21 15:11 | 03/12/21 12:39 | 1 |
| Manganese | <0.00087 | | 0.0050 | 0.00087 | mg/L | | 03/11/21 15:11 | 03/12/21 12:39 | 1 |
| Potassium | <0.16 | | 0.50 | 0.16 | mg/L | | 03/11/21 15:11 | 03/12/21 12:39 | 1 |
| Sodium | <0.35 | | 0.50 | 0.35 | mg/L | | 03/11/21 15:11 | 03/12/21 12:39 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/11/21 14:00 | 03/11/21 16:28 | 1 |
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/15/21 20:29 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/13/21 15:59 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/13/21 15:59 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: Dup-1

Lab Sample ID: 180-118172-7

Date Collected: 03/08/21 00:00

Matrix: Water

Date Received: 03/10/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 71 | | 1.0 | 0.71 | mg/L | | | 03/12/21 18:43 | 1 |
| Fluoride | 0.038 | J | 0.10 | 0.026 | mg/L | | | 03/12/21 18:43 | 1 |
| Sulfate | 4.8 | | 1.0 | 0.76 | mg/L | | | 03/12/21 18:43 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 0.49 | | 0.080 | 0.039 | mg/L | | 03/11/21 15:11 | 03/12/21 12:43 | 1 |
| Calcium | 15 | | 0.50 | 0.13 | mg/L | | 03/11/21 15:11 | 03/12/21 12:43 | 1 |
| Iron | 0.25 | | 0.050 | 0.020 | mg/L | | 03/11/21 15:11 | 03/12/21 12:43 | 1 |
| Magnesium | 17 | | 0.50 | 0.083 | mg/L | | 03/11/21 15:11 | 03/12/21 12:43 | 1 |
| Manganese | 0.33 | | 0.0050 | 0.00087 | mg/L | | 03/11/21 15:11 | 03/12/21 12:43 | 1 |
| Potassium | 3.8 | | 0.50 | 0.16 | mg/L | | 03/11/21 15:11 | 03/12/21 12:43 | 1 |
| Sodium | 9.3 | | 0.50 | 0.35 | mg/L | | 03/11/21 15:11 | 03/12/21 12:43 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/11/21 14:00 | 03/11/21 16:30 | 1 |
| Total Dissolved Solids | 200 | | 10 | 10 | mg/L | | | 03/15/21 20:25 | 1 |
| Total Alkalinity as CaCO ₃ to pH 4.5 | 38 | | 5.0 | 5.0 | mg/L | | | 03/13/21 16:08 | 1 |
| Bicarbonate Alkalinity as CaCO ₃ | 38 | | 5.0 | 5.0 | mg/L | | | 03/13/21 16:08 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: EB-1

Lab Sample ID: 180-118172-8

Date Collected: 03/09/21 11:00

Matrix: Water

Date Received: 03/10/21 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 03/12/21 20:13 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/12/21 20:13 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/12/21 20:13 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 0.043 | J | 0.080 | 0.039 | mg/L | | 03/11/21 15:11 | 03/12/21 12:58 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 03/11/21 15:11 | 03/12/21 12:58 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/11/21 15:11 | 03/12/21 12:58 | 1 |
| Magnesium | <0.083 | | 0.50 | 0.083 | mg/L | | 03/11/21 15:11 | 03/12/21 12:58 | 1 |
| Manganese | <0.00087 | | 0.0050 | 0.00087 | mg/L | | 03/11/21 15:11 | 03/12/21 12:58 | 1 |
| Potassium | <0.16 | | 0.50 | 0.16 | mg/L | | 03/11/21 15:11 | 03/12/21 12:58 | 1 |
| Sodium | <0.35 | | 0.50 | 0.35 | mg/L | | 03/11/21 15:11 | 03/12/21 12:58 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/11/21 14:00 | 03/11/21 16:33 | 1 |
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/15/21 20:25 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/13/21 14:36 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/13/21 14:36 | 1 |

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-349204/6
Matrix: Water
Analysis Batch: 349204

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 03/12/21 10:18 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/12/21 10:18 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/12/21 10:18 | 1 |

Lab Sample ID: LCS 180-349204/5
Matrix: Water
Analysis Batch: 349204

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0 | 52.2 | | mg/L | | 104 | 90 - 110 |
| Fluoride | 2.50 | 2.51 | | mg/L | | 100 | 90 - 110 |
| Sulfate | 50.0 | 51.3 | | mg/L | | 103 | 90 - 110 |

Lab Sample ID: 180-118172-3 MS
Matrix: Water
Analysis Batch: 349204

Client Sample ID: PZ-24
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 2.9 | | 50.0 | 55.2 | | mg/L | | 105 | 90 - 110 |
| Fluoride | 1.1 | F1 | 2.50 | 3.45 | | mg/L | | 94 | 90 - 110 |
| Sulfate | 80 | F1 | 50.0 | 128 | | mg/L | | 95 | 90 - 110 |

Lab Sample ID: 180-118172-3 MSD
Matrix: Water
Analysis Batch: 349204

Client Sample ID: PZ-24
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 2.9 | | 50.0 | 52.8 | | mg/L | | 100 | 90 - 110 | 5 | 20 |
| Fluoride | 1.1 | F1 | 2.50 | 3.31 | F1 | mg/L | | 88 | 90 - 110 | 4 | 20 |
| Sulfate | 80 | F1 | 50.0 | 122 | F1 | mg/L | | 84 | 90 - 110 | 5 | 20 |

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

Lab Sample ID: MB 180-349140/1-A
Matrix: Water
Analysis Batch: 349307

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 349140

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/11/21 15:11 | 03/12/21 09:09 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 03/11/21 15:11 | 03/12/21 09:09 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/11/21 15:11 | 03/12/21 09:09 | 1 |
| Magnesium | <0.083 | | 0.50 | 0.083 | mg/L | | 03/11/21 15:11 | 03/12/21 09:09 | 1 |
| Manganese | <0.00087 | | 0.0050 | 0.00087 | mg/L | | 03/11/21 15:11 | 03/12/21 09:09 | 1 |
| Potassium | <0.16 | | 0.50 | 0.16 | mg/L | | 03/11/21 15:11 | 03/12/21 09:09 | 1 |
| Sodium | <0.35 | | 0.50 | 0.35 | mg/L | | 03/11/21 15:11 | 03/12/21 09:09 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/11/21 15:11 | 03/12/21 09:09 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

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

Lab Sample ID: LCS 180-349140/2-A
Matrix: Water
Analysis Batch: 349307

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 349140

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|-----------|-------------|------------|---------------|------|---|------|----------|
| Boron | 1.25 | 1.15 | | mg/L | | 92 | 80 - 120 |
| Calcium | 25.0 | 26.5 | | mg/L | | 106 | 80 - 120 |
| Iron | 5.00 | 5.21 | | mg/L | | 104 | 80 - 120 |
| Magnesium | 25.0 | 24.8 | | mg/L | | 99 | 80 - 120 |
| Manganese | 0.500 | 0.511 | | mg/L | | 102 | 80 - 120 |
| Potassium | 25.0 | 25.5 | | mg/L | | 102 | 80 - 120 |
| Sodium | 25.0 | 25.8 | | mg/L | | 103 | 80 - 120 |
| Lithium | 0.500 | 0.489 | | mg/L | | 98 | 80 - 120 |

Lab Sample ID: 180-118172-1 MS
Matrix: Water
Analysis Batch: 349307

Client Sample ID: PZ-22
Prep Type: Total Recoverable
Prep Batch: 349140

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Boron | 1.3 | | 1.25 | 2.33 | | mg/L | | 85 | 75 - 125 |
| Calcium | 90 | | 25.0 | 120 | | mg/L | | 120 | 75 - 125 |
| Iron | 0.061 | | 5.00 | 5.34 | | mg/L | | 106 | 75 - 125 |
| Magnesium | 19 | | 25.0 | 44.8 | | mg/L | | 101 | 75 - 125 |
| Manganese | 0.14 | | 0.500 | 0.667 | | mg/L | | 105 | 75 - 125 |
| Potassium | 4.5 | | 25.0 | 30.4 | | mg/L | | 103 | 75 - 125 |
| Sodium | 36 | | 25.0 | 60.7 | | mg/L | | 99 | 75 - 125 |
| Lithium | 0.11 | | 0.500 | 0.590 | | mg/L | | 96 | 75 - 125 |

Lab Sample ID: 180-118172-1 MSD
Matrix: Water
Analysis Batch: 349307

Client Sample ID: PZ-22
Prep Type: Total Recoverable
Prep Batch: 349140

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-------|
| Boron | 1.3 | | 1.25 | 2.30 | | mg/L | | 83 | 75 - 125 | 1 | 20 |
| Calcium | 90 | | 25.0 | 114 | | mg/L | | 97 | 75 - 125 | 5 | 20 |
| Iron | 0.061 | | 5.00 | 5.26 | | mg/L | | 104 | 75 - 125 | 1 | 20 |
| Magnesium | 19 | | 25.0 | 42.4 | | mg/L | | 92 | 75 - 125 | 5 | 20 |
| Manganese | 0.14 | | 0.500 | 0.646 | | mg/L | | 100 | 75 - 125 | 3 | 20 |
| Potassium | 4.5 | | 25.0 | 29.1 | | mg/L | | 98 | 75 - 125 | 4 | 20 |
| Sodium | 36 | | 25.0 | 58.9 | | mg/L | | 92 | 75 - 125 | 3 | 20 |
| Lithium | 0.11 | | 0.500 | 0.578 | | mg/L | | 93 | 75 - 125 | 2 | 20 |

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-349117/1-A
Matrix: Water
Analysis Batch: 349236

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349117

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/11/21 14:00 | 03/11/21 15:44 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 180-349117/2-A
Matrix: Water
Analysis Batch: 349236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349117
%Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------|-------------|------------|---------------|------|---|------|----------|
| Sulfide | 12.5 | 11.0 | | mg/L | | 88 | 85 - 115 |

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

Lab Sample ID: MB 180-349481/2
Matrix: Water
Analysis Batch: 349481

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/15/21 15:56 | 1 |

Lab Sample ID: LCS 180-349481/1
Matrix: Water
Analysis Batch: 349481

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|------------------------|-------------|------------|---------------|------|---|------|----------|
| Total Dissolved Solids | 457 | 422 | | mg/L | | 92 | 80 - 120 |

Lab Sample ID: MB 180-349487/2
Matrix: Water
Analysis Batch: 349487

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/15/21 20:25 | 1 |

Lab Sample ID: LCS 180-349487/1
Matrix: Water
Analysis Batch: 349487

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|------------------------|-------------|------------|---------------|------|---|------|----------|
| Total Dissolved Solids | 457 | 458 | | mg/L | | 100 | 80 - 120 |

Lab Sample ID: MB 180-349489/2
Matrix: Water
Analysis Batch: 349489

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/15/21 20:29 | 1 |

Lab Sample ID: LCS 180-349489/1
Matrix: Water
Analysis Batch: 349489

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|------------------------|-------------|------------|---------------|------|---|------|----------|
| Total Dissolved Solids | 457 | 440 | | mg/L | | 96 | 80 - 120 |

QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

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

Lab Sample ID: 180-118172-2 DU
 Matrix: Water
 Analysis Batch: 349489

Client Sample ID: PZ-23S
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 610 | | 610 | | mg/L | | 0.5 | 10 |

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-349535/6
 Matrix: Water
 Analysis Batch: 349535

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/13/21 13:40 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/13/21 13:40 | 1 |

Lab Sample ID: LCS 180-349535/5
 Matrix: Water
 Analysis Batch: 349535

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 229 | | mg/L | | 92 | 90 - 110 |

Lab Sample ID: 180-118172-2 DU
 Matrix: Water
 Analysis Batch: 349535

Client Sample ID: PZ-23S
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 110 | | 118 | | mg/L | | 3 | 20 |
| Bicarbonate Alkalinity as CaCO3 | 110 | | 118 | | mg/L | | 3 | 20 |

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

HPLC/IC

Analysis Batch: 349204

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------------|------------|
| 180-118172-1 | PZ-22 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118172-1 | PZ-22 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118172-2 | PZ-23S | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118172-2 | PZ-23S | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118172-3 | PZ-24 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118172-4 | PZ-27S | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118172-5 | PZ-27D | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118172-6 | FB-1 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118172-7 | Dup-1 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118172-8 | EB-1 | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 180-349204/6 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 180-349204/5 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118172-3 MS | PZ-24 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118172-3 MSD | PZ-24 | Total/NA | Water | EPA 300.0 R2.1 | |

Metals

Prep Batch: 349140

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-118172-1 | PZ-22 | Total Recoverable | Water | 3005A | |
| 180-118172-2 | PZ-23S | Total Recoverable | Water | 3005A | |
| 180-118172-3 | PZ-24 | Total Recoverable | Water | 3005A | |
| 180-118172-4 | PZ-27S | Total Recoverable | Water | 3005A | |
| 180-118172-5 | PZ-27D | Total Recoverable | Water | 3005A | |
| 180-118172-6 | FB-1 | Total Recoverable | Water | 3005A | |
| 180-118172-7 | Dup-1 | Total Recoverable | Water | 3005A | |
| 180-118172-8 | EB-1 | Total Recoverable | Water | 3005A | |
| MB 180-349140/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 180-349140/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 180-118172-1 MS | PZ-22 | Total Recoverable | Water | 3005A | |
| 180-118172-1 MSD | PZ-22 | Total Recoverable | Water | 3005A | |

Analysis Batch: 349307

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|-----------|------------|
| 180-118172-1 | PZ-22 | Total Recoverable | Water | EPA 6020B | 349140 |
| 180-118172-2 | PZ-23S | Total Recoverable | Water | EPA 6020B | 349140 |
| 180-118172-3 | PZ-24 | Total Recoverable | Water | EPA 6020B | 349140 |
| 180-118172-4 | PZ-27S | Total Recoverable | Water | EPA 6020B | 349140 |
| 180-118172-5 | PZ-27D | Total Recoverable | Water | EPA 6020B | 349140 |
| 180-118172-6 | FB-1 | Total Recoverable | Water | EPA 6020B | 349140 |
| 180-118172-7 | Dup-1 | Total Recoverable | Water | EPA 6020B | 349140 |
| 180-118172-8 | EB-1 | Total Recoverable | Water | EPA 6020B | 349140 |
| MB 180-349140/1-A | Method Blank | Total Recoverable | Water | EPA 6020B | 349140 |
| LCS 180-349140/2-A | Lab Control Sample | Total Recoverable | Water | EPA 6020B | 349140 |
| 180-118172-1 MS | PZ-22 | Total Recoverable | Water | EPA 6020B | 349140 |
| 180-118172-1 MSD | PZ-22 | Total Recoverable | Water | EPA 6020B | 349140 |

General Chemistry

Prep Batch: 349117

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 180-118172-1 | PZ-22 | Total/NA | Water | 9030B | |

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

General Chemistry (Continued)

Prep Batch: 349117 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-118172-2 | PZ-23S | Total/NA | Water | 9030B | |
| 180-118172-3 | PZ-24 | Total/NA | Water | 9030B | |
| 180-118172-4 | PZ-27S | Total/NA | Water | 9030B | |
| 180-118172-5 | PZ-27D | Total/NA | Water | 9030B | |
| 180-118172-6 | FB-1 | Total/NA | Water | 9030B | |
| 180-118172-7 | Dup-1 | Total/NA | Water | 9030B | |
| 180-118172-8 | EB-1 | Total/NA | Water | 9030B | |
| MB 180-349117/1-A | Method Blank | Total/NA | Water | 9030B | |
| LCS 180-349117/2-A | Lab Control Sample | Total/NA | Water | 9030B | |

Analysis Batch: 349236

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| 180-118172-1 | PZ-22 | Total/NA | Water | EPA 9034 | 349117 |
| 180-118172-2 | PZ-23S | Total/NA | Water | EPA 9034 | 349117 |
| 180-118172-3 | PZ-24 | Total/NA | Water | EPA 9034 | 349117 |
| 180-118172-4 | PZ-27S | Total/NA | Water | EPA 9034 | 349117 |
| 180-118172-5 | PZ-27D | Total/NA | Water | EPA 9034 | 349117 |
| 180-118172-6 | FB-1 | Total/NA | Water | EPA 9034 | 349117 |
| 180-118172-7 | Dup-1 | Total/NA | Water | EPA 9034 | 349117 |
| 180-118172-8 | EB-1 | Total/NA | Water | EPA 9034 | 349117 |
| MB 180-349117/1-A | Method Blank | Total/NA | Water | EPA 9034 | 349117 |
| LCS 180-349117/2-A | Lab Control Sample | Total/NA | Water | EPA 9034 | 349117 |

Analysis Batch: 349481

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-118172-5 | PZ-27D | Total/NA | Water | SM 2540C | |
| MB 180-349481/2 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-349481/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 349487

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-118172-1 | PZ-22 | Total/NA | Water | SM 2540C | |
| 180-118172-4 | PZ-27S | Total/NA | Water | SM 2540C | |
| 180-118172-7 | Dup-1 | Total/NA | Water | SM 2540C | |
| 180-118172-8 | EB-1 | Total/NA | Water | SM 2540C | |
| MB 180-349487/2 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-349487/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 349489

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-118172-2 | PZ-23S | Total/NA | Water | SM 2540C | |
| 180-118172-3 | PZ-24 | Total/NA | Water | SM 2540C | |
| 180-118172-6 | FB-1 | Total/NA | Water | SM 2540C | |
| MB 180-349489/2 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-349489/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 180-118172-2 DU | PZ-23S | Total/NA | Water | SM 2540C | |

Analysis Batch: 349535

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 180-118172-1 | PZ-22 | Total/NA | Water | SM2320 B | |
| 180-118172-2 | PZ-23S | Total/NA | Water | SM2320 B | |

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

General Chemistry (Continued)

Analysis Batch: 349535 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-118172-3 | PZ-24 | Total/NA | Water | SM2320 B | |
| 180-118172-4 | PZ-27S | Total/NA | Water | SM2320 B | |
| 180-118172-5 | PZ-27D | Total/NA | Water | SM2320 B | |
| 180-118172-6 | FB-1 | Total/NA | Water | SM2320 B | |
| 180-118172-7 | Dup-1 | Total/NA | Water | SM2320 B | |
| 180-118172-8 | EB-1 | Total/NA | Water | SM2320 B | |
| MB 180-349535/6 | Method Blank | Total/NA | Water | SM2320 B | |
| LCS 180-349535/5 | Lab Control Sample | Total/NA | Water | SM2320 B | |
| 180-118172-2 DU | PZ-23S | Total/NA | Water | SM2320 B | |

Field Service / Mobile Lab

Analysis Batch: 349443

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 180-118172-1 | PZ-22 | Total/NA | Water | Field Sampling | |
| 180-118172-2 | PZ-23S | Total/NA | Water | Field Sampling | |
| 180-118172-3 | PZ-24 | Total/NA | Water | Field Sampling | |
| 180-118172-4 | PZ-27S | Total/NA | Water | Field Sampling | |
| 180-118172-5 | PZ-27D | Total/NA | Water | Field Sampling | |

Chain of Custody Record



| | | | | | | | |
|--|-------|---|------|--|---|-------------------------------------|----------|
| Client Information | | Lab PM: Brown, Shall | | Carrier Tracking No(s): | | COC No: | |
| Client Contact: SCS Contacts | | Phone: 770-594-5998 | | E-Mail: shall.brown@eurofinset.com | | Page: 1 of 1 | |
| Company: GA Power | | Address: 241 Ralph McGill Blvd SE | | City: Atlanta | | State, Zip: GA, 30308 | |
| Phone: 404-506-7116(Tel) | | PO #: SCS10382606 | | WO #: | | Project #: 18019922 | |
| Email: | | Project Name: CCR - Plant Wansley Ash Pond PZ | | Site: | | SSOW#: | |
| Due Date Requested: | | TAT Requested (days): RUSH 3-day TAT | | Analysis Requested | | | |
| Sample Identification | | Sample Date | | Sample Time | | Sample Type (C=comp, G=grab) | |
| Matrix (W=water, S=solid, O=soil, BT=tissue, A=air) | | Preservation Code: | | Field Filtered Sample (Yes or No) | | Perform MS/MSD (Yes or No) | |
| App III Metals (B, Ca) | | CF, F, SO & TDS (EPA 300 & SM 2540C) | | Major Ions - Bicarbonate Alkalinity, Total Alkalinity, Iron, Magnesium, Manganese, Potassium, Sodium, Sulfide | | Special Instructions/Note: | |
| PZ-22 | Water | 3-8-21 | 1525 | G | N | N | pH= 5.54 |
| PZ-23S | Water | 3-4-21 | 1230 | G | N | N | pH= 7.29 |
| PZ-24 | Water | 3-9-21 | 1050 | G | N | N | pH= 5.56 |
| PZ-27S | Water | 3-8-21 | 1400 | G | N | N | pH= 5.36 |
| PZ-27D | Water | 3-8-21 | 1300 | G | N | N | pH= 7.44 |
| PZ-28D | Water | 3-9-21 | 1320 | G | N | N | pH= 7.82 |
| FB-1 | Water | 3-9-21 | 1250 | G | N | N | pH= 7.44 |
| Dup-1 | Water | 3-8-21 | - | G | N | N | pH= 7.44 |
| EB-1 | Water | 3-4-21 | 1100 | G | N | N | pH= 7.44 |
| | Water | | | G | | | pH= |
| | Water | | | G | | | pH= |

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by: *Heather Bell* Date/Time: 3/9/21 16:00 Company: ACC

Relinquished by: *[Signature]* Date/Time: 3/9/21 16:10 Company: EDA

Relinquished by: *[Signature]* Date/Time: 3/9/21 9:00 Company: E7 APCH

Custody Seals Intact: Yes No **Custody Seal No.:** _____

Cooler Temperature(s) °C and Other Remarks:





Environment Testing
TestAmerica

ORIGIN TO: PHDA (404) 946-9486
GUEST: COLEMAN HILL
HAMPTON INN AND SUITES
2628 DAWSON RD

ALBANY, GA 31707
UNITED STATES US

SHIP DATE: 09FEB21
ACTWTG: 10.00 LB MAN
CAD: 0562071/CAFE3406

TO

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 152382907

(412) 963-7058

REF: \$186-68113

RMA: III III III



FedEx
Express



FedEx

TRK# 0221 9509 0059 3325

WED - 10 MAR 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238

PA-US

PIT



Uncorrected temp
Thermometer ID

CF

Initials

PT-WI-SR-001 effective 11/8/18

27
14
C

05 03/09 56DJ3/AC39/FE4A



180-118172 Waybill

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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118172-1

Login Number: 118172

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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

ANALYTICAL REPORT

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

Laboratory Job ID: 180-118350-1
Client Project/Site: Plant Wansley Ash Pond PZ
Revision: 1

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
5/4/2021 5:59:51 PM

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

LINKS

Review your project
results through
Total Access

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 Wansley Ash Pond PZ

Job ID: 180-118350-1

Job ID: 180-118350-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-118350-1

Comments

050421 Revised repot to add Lithium to the following samples at client request: 180-118350-2 (PZ-25S), 180-118350-3 (PZ-26S). This report replaces the report previously issued on 032221.

Receipt

The samples were received on 3/12/2021 8:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.5° C, 2.5° C, 2.5° C, 2.8° C, 2.9° C and 3.2° C.

GC Semi VOA

Method 300.0: The method blank for analytical batch 180-349310 contained Sulfate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 349781 recovered above the upper control limit for boron. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Field Service / Mobile Lab

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

General Chemistry

Method SM 2540C: The following samples were analyzed outside of analytical holding time due to analyst error. PZ-23D (180-118350-1), PZ-25S (180-118350-2), PZ-26S (180-118350-3), PZ-26D (180-118350-4), PZ-28 (180-118350-5), EB-2 (180-118350-6), Dup-2 (180-118350-7) and FB-2 (180-118350-8).

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 Wansley Ash Pond PZ

Job ID: 180-118350-1

Qualifiers

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|---|
| ^+ | Continuing Calibration Verification (CCV) is outside acceptance limits, high biased. |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

General Chemistry

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

Glossary

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

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

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 180-118350-1 | PZ-23D | Water | 03/09/21 14:50 | 03/12/21 08:30 | |
| 180-118350-2 | PZ-25S | Water | 03/09/21 16:42 | 03/12/21 08:30 | |
| 180-118350-3 | PZ-26S | Water | 03/09/21 14:34 | 03/12/21 08:30 | |
| 180-118350-4 | PZ-26D | Water | 03/09/21 13:38 | 03/12/21 08:30 | |
| 180-118350-5 | PZ-28 | Water | 03/09/21 15:33 | 03/12/21 08:30 | |
| 180-118350-6 | EB-2 | Water | 03/09/21 17:25 | 03/12/21 08:30 | |
| 180-118350-7 | Dup-2 | Water | 03/09/21 00:00 | 03/12/21 08:30 | |
| 180-118350-8 | FB-2 | Water | 03/09/21 14:20 | 03/12/21 08:30 | |
| 180-118350-9 | PZ-29D | Water | 03/11/21 12:25 | 03/12/21 08:30 | |

NOTE:
PZ-25S has been reclassified as WGWC-23
PZ-26S has been reclassified as WGWC-24



Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

| Method | Method Description | Protocol | Laboratory |
|----------------|--|----------|------------|
| EPA 300.0 R2.1 | Anions, Ion Chromatography | EPA | TAL PIT |
| EPA 6020B | Metals (ICP/MS) | SW846 | TAL PIT |
| EPA 9034 | Sulfide, Acid soluble and Insoluble (Titrimetric) | SW846 | TAL PIT |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL PIT |
| SM2320 B | Alkalinity, Total | SM18 | TAL PIT |
| Field Sampling | Field Sampling | EPA | TAL PIT |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | TAL PIT |
| 9030B | Sulfide, Distillation (Acid Soluble and Insoluble) | SW846 | TAL PIT |

Protocol References:

EPA = US Environmental Protection Agency

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

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-23D
Date Collected: 03/09/21 14:50
Date Received: 03/12/21 08:30

Lab Sample ID: 180-118350-1
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 300.0 R2.1 | | 1 | | | 349310 | 03/13/21 12:39 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349566 | 03/16/21 11:51 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349781 | 03/17/21 13:14 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349361 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349549 | 03/15/21 14:01 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349924 | 03/18/21 18:17 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349682 | 03/17/21 02:31 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349443 | 03/09/21 14:50 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PZ-25S
Date Collected: 03/09/21 16:42
Date Received: 03/12/21 08:30

Lab Sample ID: 180-118350-2
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 300.0 R2.1 | | 1 | | | 349310 | 03/13/21 11:45 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349566 | 03/16/21 11:51 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349781 | 03/17/21 13:32 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 14:26 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349924 | 03/18/21 18:17 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349682 | 03/17/21 02:59 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349443 | 03/09/21 16:42 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PZ-26S
Date Collected: 03/09/21 14:34
Date Received: 03/12/21 08:30

Lab Sample ID: 180-118350-3
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 300.0 R2.1 | | 1 | | | 349310 | 03/13/21 11:10 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349566 | 03/16/21 11:51 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349781 | 03/17/21 13:35 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |

NOTE:
PZ-25S has been reclassified as WGWC-23
PZ-26S has been reclassified as WGWC-24

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-26S
Date Collected: 03/09/21 14:34
Date Received: 03/12/21 08:30

Lab Sample ID: 180-118350-3
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 | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 14:35 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349924 | 03/18/21 18:17 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349682 | 03/17/21 03:16 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349443 | 03/09/21 14:34 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PZ-26D
Date Collected: 03/09/21 13:38
Date Received: 03/12/21 08:30

Lab Sample ID: 180-118350-4
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 349310 | 03/13/21 10:16 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349566 | 03/16/21 11:51 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349781 | 03/17/21 13:39 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 14:38 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349924 | 03/18/21 18:17 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349682 | 03/17/21 03:25 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349443 | 03/09/21 13:38 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PZ-28
Date Collected: 03/09/21 15:33
Date Received: 03/12/21 08:30

Lab Sample ID: 180-118350-5
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 349310 | 03/13/21 13:32 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349566 | 03/16/21 11:51 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349781 | 03/17/21 13:50 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 14:40 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349924 | 03/18/21 18:17 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

NOTE:
PZ-25S has been reclassified as WGWC-23
PZ-26S has been reclassified as WGWC-24

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-28

Lab Sample ID: 180-118350-5

Date Collected: 03/09/21 15:33

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | SM2320 B | | 1 | | | 349682 | 03/17/21 03:34 | REI | TAL PIT |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349443 | 03/09/21 15:33 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: EB-2

Lab Sample ID: 180-118350-6

Date Collected: 03/09/21 17:25

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 349310 | 03/13/21 09:40 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349566 | 03/16/21 11:51 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349781 | 03/17/21 13:53 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 14:43 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349924 | 03/18/21 18:17 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349682 | 03/17/21 03:43 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |

Client Sample ID: Dup-2

Lab Sample ID: 180-118350-7

Date Collected: 03/09/21 00:00

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 349310 | 03/13/21 13:15 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349566 | 03/16/21 11:51 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349781 | 03/17/21 13:57 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 14:46 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349924 | 03/18/21 18:17 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349682 | 03/17/21 03:52 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: FB-2

Lab Sample ID: 180-118350-8

Date Collected: 03/09/21 14:20

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 349310 | 03/13/21 09:58 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349566 | 03/16/21 11:51 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349781 | 03/17/21 14:01 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 14:55 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349924 | 03/18/21 18:17 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349682 | 03/17/21 04:01 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |

Client Sample ID: PZ-29D

Lab Sample ID: 180-118350-9

Date Collected: 03/11/21 12:25

Matrix: Water

Date Received: 03/12/21 08:30

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 349310 | 03/13/21 12:57 | SAT | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 349566 | 03/16/21 11:51 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 349781 | 03/17/21 14:04 | RSK | TAL PIT |
| Instrument ID: A | | | | | | | | | | |
| Total/NA | Prep | 9030B | | | 50 mL | 50 mL | 349362 | 03/15/21 09:45 | CMR | TAL PIT |
| Total/NA | Analysis | EPA 9034 | | 1 | | | 349551 | 03/15/21 14:58 | CMR | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 349924 | 03/18/21 18:17 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | SM2320 B | | 1 | | | 349682 | 03/17/21 04:10 | REI | TAL PIT |
| Instrument ID: PCTITRATOR | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 349443 | 03/11/21 12:25 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

CMR = Carl Reagle

KEM = Kimberly Mahoney

Batch Type: Analysis

CMR = Carl Reagle

FDS = Sampler Field

KMM = Kendric Moore

REI = Rachel Innocenzi

RSK = Robert Kurtz

SAT = Stephen Tallam

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-23D

Lab Sample ID: 180-118350-1

Date Collected: 03/09/21 14:50

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 36 | | 1.0 | 0.71 | mg/L | | | 03/13/21 12:39 | 1 |
| Sulfate | 100 | B | 1.0 | 0.76 | mg/L | | | 03/13/21 12:39 | 1 |
| Fluoride | 2.3 | | 0.10 | 0.026 | mg/L | | | 03/13/21 12:39 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 0.62 | | 0.080 | 0.039 | mg/L | | 03/16/21 11:51 | 03/17/21 13:14 | 1 |
| Calcium | 50 | | 0.50 | 0.13 | mg/L | | 03/16/21 11:51 | 03/17/21 13:14 | 1 |
| Iron | 1.4 | | 0.050 | 0.020 | mg/L | | 03/16/21 11:51 | 03/17/21 13:14 | 1 |
| Magnesium | 8.5 | | 0.50 | 0.083 | mg/L | | 03/16/21 11:51 | 03/17/21 13:14 | 1 |
| Manganese | 2.4 | B | 0.0050 | 0.00087 | mg/L | | 03/16/21 11:51 | 03/17/21 13:14 | 1 |
| Potassium | 6.5 | | 0.50 | 0.16 | mg/L | | 03/16/21 11:51 | 03/17/21 13:14 | 1 |
| Sodium | 35 | | 0.50 | 0.35 | mg/L | | 03/16/21 11:51 | 03/17/21 13:14 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 14:01 | 1 |
| Total Dissolved Solids | 300 | H | 10 | 10 | mg/L | | | 03/18/21 18:17 | 1 |
| Total Alkalinity as CaCO ₃ to pH 4.5 | 84 | | 5.0 | 5.0 | mg/L | | | 03/17/21 02:31 | 1 |
| Bicarbonate Alkalinity as CaCO ₃ | 84 | | 5.0 | 5.0 | mg/L | | | 03/17/21 02:31 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.85 | | | | SU | | | 03/09/21 14:50 | 1 |

NOTE:
PZ-25S has been reclassified as WGWC-23

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-25S

Lab Sample ID: 180-118350-2

Date Collected: 03/09/21 16:42

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3.5 | | 1.0 | 0.71 | mg/L | | | 03/13/21 11:45 | 1 |
| Sulfate | 14 | B | 1.0 | 0.76 | mg/L | | | 03/13/21 11:45 | 1 |
| Fluoride | 0.092 | J | 0.10 | 0.026 | mg/L | | | 03/13/21 11:45 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 0.073 | J | 0.080 | 0.039 | mg/L | | 03/16/21 11:51 | 03/17/21 13:32 | 1 |
| Calcium | 3.2 | | 0.50 | 0.13 | mg/L | | 03/16/21 11:51 | 03/17/21 13:32 | 1 |
| Iron | 0.18 | | 0.050 | 0.020 | mg/L | | 03/16/21 11:51 | 03/17/21 13:32 | 1 |
| Magnesium | 0.49 | J | 0.50 | 0.083 | mg/L | | 03/16/21 11:51 | 03/17/21 13:32 | 1 |
| Manganese | 0.063 | B | 0.0050 | 0.00087 | mg/L | | 03/16/21 11:51 | 03/17/21 13:32 | 1 |
| Potassium | 2.4 | | 0.50 | 0.16 | mg/L | | 03/16/21 11:51 | 03/17/21 13:32 | 1 |
| Sodium | 17 | | 0.50 | 0.35 | mg/L | | 03/16/21 11:51 | 03/17/21 13:32 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/16/21 11:51 | 03/17/21 13:32 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 14:26 | 1 |
| Total Dissolved Solids | 79 | H | 10 | 10 | mg/L | | | 03/18/21 18:17 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 45 | | 5.0 | 5.0 | mg/L | | | 03/17/21 02:59 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 45 | | 5.0 | 5.0 | mg/L | | | 03/17/21 02:59 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.81 | | | | SU | | | 03/09/21 16:42 | 1 |

NOTE:
PZ-26S has been reclassified as WGWC-24

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-26S

Lab Sample ID: 180-118350-3

Date Collected: 03/09/21 14:34

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 110 | | 1.0 | 0.71 | mg/L | | | 03/13/21 11:10 | 1 |
| Sulfate | 140 | B | 1.0 | 0.76 | mg/L | | | 03/13/21 11:10 | 1 |
| Fluoride | 1.0 | | 0.10 | 0.026 | mg/L | | | 03/13/21 11:10 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 1.8 | | 0.080 | 0.039 | mg/L | | 03/16/21 11:51 | 03/17/21 13:35 | 1 |
| Calcium | 65 | | 0.50 | 0.13 | mg/L | | 03/16/21 11:51 | 03/17/21 13:35 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/16/21 11:51 | 03/17/21 13:35 | 1 |
| Magnesium | 17 | | 0.50 | 0.083 | mg/L | | 03/16/21 11:51 | 03/17/21 13:35 | 1 |
| Manganese | 4.7 | B | 0.0050 | 0.00087 | mg/L | | 03/16/21 11:51 | 03/17/21 13:35 | 1 |
| Potassium | 13 | | 0.50 | 0.16 | mg/L | | 03/16/21 11:51 | 03/17/21 13:35 | 1 |
| Sodium | 18 | | 0.50 | 0.35 | mg/L | | 03/16/21 11:51 | 03/17/21 13:35 | 1 |
| Lithium | 0.0084 | | 0.0050 | 0.0034 | mg/L | | 03/16/21 11:51 | 03/17/21 13:35 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 14:35 | 1 |
| Total Dissolved Solids | 370 | H | 10 | 10 | mg/L | | | 03/18/21 18:17 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/17/21 03:16 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/17/21 03:16 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 4.29 | | | | SU | | | 03/09/21 14:34 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-26D

Lab Sample ID: 180-118350-4

Date Collected: 03/09/21 13:38

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 20 | | 1.0 | 0.71 | mg/L | | | 03/13/21 10:16 | 1 |
| Sulfate | 46 | B | 1.0 | 0.76 | mg/L | | | 03/13/21 10:16 | 1 |
| Fluoride | 0.26 | | 0.10 | 0.026 | mg/L | | | 03/13/21 10:16 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 0.22 | | 0.080 | 0.039 | mg/L | | 03/16/21 11:51 | 03/17/21 13:39 | 1 |
| Calcium | 17 | | 0.50 | 0.13 | mg/L | | 03/16/21 11:51 | 03/17/21 13:39 | 1 |
| Iron | 0.76 | | 0.050 | 0.020 | mg/L | | 03/16/21 11:51 | 03/17/21 13:39 | 1 |
| Magnesium | 2.7 | | 0.50 | 0.083 | mg/L | | 03/16/21 11:51 | 03/17/21 13:39 | 1 |
| Manganese | 0.23 | B | 0.0050 | 0.00087 | mg/L | | 03/16/21 11:51 | 03/17/21 13:39 | 1 |
| Potassium | 2.3 | | 0.50 | 0.16 | mg/L | | 03/16/21 11:51 | 03/17/21 13:39 | 1 |
| Sodium | 33 | | 0.50 | 0.35 | mg/L | | 03/16/21 11:51 | 03/17/21 13:39 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 14:38 | 1 |
| Total Dissolved Solids | 180 | H | 10 | 10 | mg/L | | | 03/18/21 18:17 | 1 |
| Total Alkalinity as CaCO ₃ to pH 4.5 | 55 | | 5.0 | 5.0 | mg/L | | | 03/17/21 03:25 | 1 |
| Bicarbonate Alkalinity as CaCO ₃ | 55 | | 5.0 | 5.0 | mg/L | | | 03/17/21 03:25 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.19 | | | | SU | | | 03/09/21 13:38 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-28

Lab Sample ID: 180-118350-5

Date Collected: 03/09/21 15:33

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 1.8 | | 1.0 | 0.71 | mg/L | | | 03/13/21 13:32 | 1 |
| Sulfate | 1.1 | B | 1.0 | 0.76 | mg/L | | | 03/13/21 13:32 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/13/21 13:32 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 0.044 | J | 0.080 | 0.039 | mg/L | | 03/16/21 11:51 | 03/17/21 13:50 | 1 |
| Calcium | 3.6 | | 0.50 | 0.13 | mg/L | | 03/16/21 11:51 | 03/17/21 13:50 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/16/21 11:51 | 03/17/21 13:50 | 1 |
| Magnesium | 1.0 | | 0.50 | 0.083 | mg/L | | 03/16/21 11:51 | 03/17/21 13:50 | 1 |
| Manganese | 0.010 | B | 0.0050 | 0.00087 | mg/L | | 03/16/21 11:51 | 03/17/21 13:50 | 1 |
| Potassium | 1.6 | | 0.50 | 0.16 | mg/L | | 03/16/21 11:51 | 03/17/21 13:50 | 1 |
| Sodium | 9.1 | | 0.50 | 0.35 | mg/L | | 03/16/21 11:51 | 03/17/21 13:50 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 14:40 | 1 |
| Total Dissolved Solids | 53 | H | 10 | 10 | mg/L | | | 03/18/21 18:17 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 39 | | 5.0 | 5.0 | mg/L | | | 03/17/21 03:34 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 39 | | 5.0 | 5.0 | mg/L | | | 03/17/21 03:34 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.65 | | | | SU | | | 03/09/21 15:33 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: EB-2

Lab Sample ID: 180-118350-6

Date Collected: 03/09/21 17:25

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 03/13/21 09:40 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/13/21 09:40 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/13/21 09:40 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|---------------|------------|--------|---------|------|---|----------------|----------------|---------|
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/16/21 11:51 | 03/17/21 13:53 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 03/16/21 11:51 | 03/17/21 13:53 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/16/21 11:51 | 03/17/21 13:53 | 1 |
| Magnesium | <0.083 | | 0.50 | 0.083 | mg/L | | 03/16/21 11:51 | 03/17/21 13:53 | 1 |
| Manganese | 0.0014 | J B | 0.0050 | 0.00087 | mg/L | | 03/16/21 11:51 | 03/17/21 13:53 | 1 |
| Potassium | <0.16 | | 0.50 | 0.16 | mg/L | | 03/16/21 11:51 | 03/17/21 13:53 | 1 |
| Sodium | <0.35 | | 0.50 | 0.35 | mg/L | | 03/16/21 11:51 | 03/17/21 13:53 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 14:43 | 1 |
| Total Dissolved Solids | <10 | H | 10 | 10 | mg/L | | | 03/18/21 18:17 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/17/21 03:43 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/17/21 03:43 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: Dup-2
 Date Collected: 03/09/21 00:00
 Date Received: 03/12/21 08:30

Lab Sample ID: 180-118350-7
 Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 20 | | 1.0 | 0.71 | mg/L | | | 03/13/21 13:15 | 1 |
| Sulfate | 47 | B | 1.0 | 0.76 | mg/L | | | 03/13/21 13:15 | 1 |
| Fluoride | 0.25 | | 0.10 | 0.026 | mg/L | | | 03/13/21 13:15 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 0.16 | | 0.080 | 0.039 | mg/L | | 03/16/21 11:51 | 03/17/21 13:57 | 1 |
| Calcium | 17 | | 0.50 | 0.13 | mg/L | | 03/16/21 11:51 | 03/17/21 13:57 | 1 |
| Iron | 0.64 | | 0.050 | 0.020 | mg/L | | 03/16/21 11:51 | 03/17/21 13:57 | 1 |
| Magnesium | 2.8 | | 0.50 | 0.083 | mg/L | | 03/16/21 11:51 | 03/17/21 13:57 | 1 |
| Manganese | 0.23 | B | 0.0050 | 0.00087 | mg/L | | 03/16/21 11:51 | 03/17/21 13:57 | 1 |
| Potassium | 2.4 | | 0.50 | 0.16 | mg/L | | 03/16/21 11:51 | 03/17/21 13:57 | 1 |
| Sodium | 32 | | 0.50 | 0.35 | mg/L | | 03/16/21 11:51 | 03/17/21 13:57 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | 4.9 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 14:46 | 1 |
| Total Dissolved Solids | 170 | H | 10 | 10 | mg/L | | | 03/18/21 18:17 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | 54 | | 5.0 | 5.0 | mg/L | | | 03/17/21 03:52 | 1 |
| Bicarbonate Alkalinity as CaCO3 | 54 | | 5.0 | 5.0 | mg/L | | | 03/17/21 03:52 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: FB-2

Lab Sample ID: 180-118350-8

Date Collected: 03/09/21 14:20

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 03/13/21 09:58 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 03/13/21 09:58 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/13/21 09:58 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|----------------|------------|--------|---------|------|---|----------------|----------------|---------|
| Boron | 0.041 | J | 0.080 | 0.039 | mg/L | | 03/16/21 11:51 | 03/17/21 14:01 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 03/16/21 11:51 | 03/17/21 14:01 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/16/21 11:51 | 03/17/21 14:01 | 1 |
| Magnesium | <0.083 | | 0.50 | 0.083 | mg/L | | 03/16/21 11:51 | 03/17/21 14:01 | 1 |
| Manganese | 0.00094 | J B | 0.0050 | 0.00087 | mg/L | | 03/16/21 11:51 | 03/17/21 14:01 | 1 |
| Potassium | <0.16 | | 0.50 | 0.16 | mg/L | | 03/16/21 11:51 | 03/17/21 14:01 | 1 |
| Sodium | <0.35 | | 0.50 | 0.35 | mg/L | | 03/16/21 11:51 | 03/17/21 14:01 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 14:55 | 1 |
| Total Dissolved Solids | <10 | H | 10 | 10 | mg/L | | | 03/18/21 18:17 | 1 |
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/17/21 04:01 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/17/21 04:01 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-29D

Lab Sample ID: 180-118350-9

Date Collected: 03/11/21 12:25

Matrix: Water

Date Received: 03/12/21 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 7.2 | | 1.0 | 0.71 | mg/L | | | 03/13/21 12:57 | 1 |
| Sulfate | 11 | B | 1.0 | 0.76 | mg/L | | | 03/13/21 12:57 | 1 |
| Fluoride | 0.049 | J | 0.10 | 0.026 | mg/L | | | 03/13/21 12:57 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|--------|---------|------|---|----------------|----------------|---------|
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 03/16/21 11:51 | 03/17/21 14:04 | 1 |
| Calcium | 41 | | 0.50 | 0.13 | mg/L | | 03/16/21 11:51 | 03/17/21 14:04 | 1 |
| Iron | 23 | | 0.050 | 0.020 | mg/L | | 03/16/21 11:51 | 03/17/21 14:04 | 1 |
| Magnesium | 4.6 | | 0.50 | 0.083 | mg/L | | 03/16/21 11:51 | 03/17/21 14:04 | 1 |
| Manganese | 1.3 | B | 0.0050 | 0.00087 | mg/L | | 03/16/21 11:51 | 03/17/21 14:04 | 1 |
| Potassium | 10 | | 0.50 | 0.16 | mg/L | | 03/16/21 11:51 | 03/17/21 14:04 | 1 |
| Sodium | 18 | | 0.50 | 0.35 | mg/L | | 03/16/21 11:51 | 03/17/21 14:04 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 14:58 | 1 |
| Total Dissolved Solids | 210 | | 10 | 10 | mg/L | | | 03/18/21 18:17 | 1 |
| Total Alkalinity as CaCO ₃ to pH 4.5 | 160 | | 5.0 | 5.0 | mg/L | | | 03/17/21 04:10 | 1 |
| Bicarbonate Alkalinity as CaCO ₃ | 160 | | 5.0 | 5.0 | mg/L | | | 03/17/21 04:10 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.41 | | | | SU | | | 03/11/21 12:25 | 1 |

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-349310/6
Matrix: Water
Analysis Batch: 349310

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

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 03/13/21 08:08 | 1 |
| Sulfate | 0.948 | J | 1.0 | 0.76 | mg/L | | | 03/13/21 08:08 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 03/13/21 08:08 | 1 |

Lab Sample ID: LCS 180-349310/5
Matrix: Water
Analysis Batch: 349310

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| Sulfate | 50.0 | 53.2 | | mg/L | | 106 | 90 - 110 |
| Fluoride | 2.50 | 2.54 | | mg/L | | 102 | 90 - 110 |

Lab Sample ID: 180-118350-4 MS
Matrix: Water
Analysis Batch: 349310

Client Sample ID: PZ-26D
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| | | | | | | | | | |
| Sulfate | 46 | B | 50.0 | 95.3 | | mg/L | | 99 | 90 - 110 |
| Fluoride | 0.26 | | 2.50 | 2.70 | | mg/L | | 98 | 90 - 110 |

Lab Sample ID: 180-118350-4 MSD
Matrix: Water
Analysis Batch: 349310

Client Sample ID: PZ-26D
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| | | | | | | | | | | | |
| Sulfate | 46 | B | 50.0 | 96.4 | | mg/L | | 101 | 90 - 110 | 1 | 20 |
| Fluoride | 0.26 | | 2.50 | 2.71 | | mg/L | | 98 | 90 - 110 | 0 | 20 |

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

Lab Sample ID: MB 180-349566/1-A
Matrix: Water
Analysis Batch: 349781

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 349566

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|---------|-----------|--------|---------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Boron | <0.039 | ^+ | 0.080 | 0.039 | mg/L | | 03/16/21 11:51 | 03/17/21 12:48 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 03/16/21 11:51 | 03/17/21 12:48 | 1 |
| Iron | <0.020 | | 0.050 | 0.020 | mg/L | | 03/16/21 11:51 | 03/17/21 12:48 | 1 |
| Magnesium | <0.083 | | 0.50 | 0.083 | mg/L | | 03/16/21 11:51 | 03/17/21 12:48 | 1 |
| Manganese | 0.00148 | J | 0.0050 | 0.00087 | mg/L | | 03/16/21 11:51 | 03/17/21 12:48 | 1 |
| Potassium | <0.16 | | 0.50 | 0.16 | mg/L | | 03/16/21 11:51 | 03/17/21 12:48 | 1 |
| Sodium | <0.35 | | 0.50 | 0.35 | mg/L | | 03/16/21 11:51 | 03/17/21 12:48 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 03/16/21 11:51 | 03/17/21 12:48 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

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

Lab Sample ID: LCS 180-349566/2-A
Matrix: Water
Analysis Batch: 349781

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 349566

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|-----------|-------------|------------|---------------|------|---|------|----------|
| Boron | 1.25 | 1.19 | | mg/L | | 95 | 80 - 120 |
| Calcium | 25.0 | 27.0 | | mg/L | | 108 | 80 - 120 |
| Iron | 5.00 | 5.19 | | mg/L | | 104 | 80 - 120 |
| Magnesium | 25.0 | 25.3 | | mg/L | | 101 | 80 - 120 |
| Manganese | 0.500 | 0.517 | | mg/L | | 103 | 80 - 120 |
| Potassium | 25.0 | 24.7 | | mg/L | | 99 | 80 - 120 |
| Sodium | 25.0 | 25.6 | | mg/L | | 102 | 80 - 120 |
| Lithium | 0.500 | 0.500 | | mg/L | | 100 | 80 - 120 |

Lab Sample ID: 180-118350-1 MS
Matrix: Water
Analysis Batch: 349781

Client Sample ID: PZ-23D
Prep Type: Total Recoverable
Prep Batch: 349566

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Boron | 0.62 | | 1.25 | 1.76 | | mg/L | | 91 | 75 - 125 |
| Calcium | 50 | | 25.0 | 76.6 | | mg/L | | 106 | 75 - 125 |
| Iron | 1.4 | | 5.00 | 6.59 | | mg/L | | 103 | 75 - 125 |
| Magnesium | 8.5 | | 25.0 | 33.3 | | mg/L | | 99 | 75 - 125 |
| Manganese | 2.4 | B | 0.500 | 2.90 | 4 | mg/L | | 99 | 75 - 125 |
| Potassium | 6.5 | | 25.0 | 30.7 | | mg/L | | 97 | 75 - 125 |
| Sodium | 35 | | 25.0 | 59.6 | | mg/L | | 99 | 75 - 125 |
| Lithium | 0.048 | | 0.500 | 0.532 | | mg/L | | 97 | 75 - 125 |

Lab Sample ID: 180-118350-1 MSD
Matrix: Water
Analysis Batch: 349781

Client Sample ID: PZ-23D
Prep Type: Total Recoverable
Prep Batch: 349566

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-------|
| Boron | 0.62 | | 1.25 | 1.83 | | mg/L | | 97 | 75 - 125 | 4 | 20 |
| Calcium | 50 | | 25.0 | 77.3 | | mg/L | | 108 | 75 - 125 | 1 | 20 |
| Iron | 1.4 | | 5.00 | 6.61 | | mg/L | | 103 | 75 - 125 | 0 | 20 |
| Magnesium | 8.5 | | 25.0 | 33.6 | | mg/L | | 100 | 75 - 125 | 1 | 20 |
| Manganese | 2.4 | B | 0.500 | 2.92 | 4 | mg/L | | 102 | 75 - 125 | 0 | 20 |
| Potassium | 6.5 | | 25.0 | 30.6 | | mg/L | | 97 | 75 - 125 | 0 | 20 |
| Sodium | 35 | | 25.0 | 60.5 | | mg/L | | 103 | 75 - 125 | 2 | 20 |
| Lithium | 0.048 | | 0.500 | 0.543 | | mg/L | | 99 | 75 - 125 | 2 | 20 |

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-349361/1-A
Matrix: Water
Analysis Batch: 349549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349361

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 13:05 | 1 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 180-349361/2-A
Matrix: Water
Analysis Batch: 349549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349361
%Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------|-------------|------------|---------------|------|---|------|----------|
| Sulfide | 12.7 | 11.2 | | mg/L | | 88 | 85 - 115 |

Lab Sample ID: MB 180-349362/1-A
Matrix: Water
Analysis Batch: 349551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349362

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Sulfide | <2.1 | | 3.0 | 2.1 | mg/L | | 03/15/21 09:45 | 03/15/21 14:20 | 1 |

Lab Sample ID: LCS 180-349362/2-A
Matrix: Water
Analysis Batch: 349551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349362
%Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------|-------------|------------|---------------|------|---|------|----------|
| Sulfide | 12.7 | 12.1 | | mg/L | | 95 | 85 - 115 |

Lab Sample ID: 180-118350-2 MS
Matrix: Water
Analysis Batch: 349551

Client Sample ID: PZ-25S
Prep Type: Total/NA
Prep Batch: 349362
%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Sulfide | <2.1 | | 12.7 | 10.6 | | mg/L | | 83 | 75 - 125 |

Lab Sample ID: 180-118350-2 MSD
Matrix: Water
Analysis Batch: 349551

Client Sample ID: PZ-25S
Prep Type: Total/NA
Prep Batch: 349362
%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-------|
| Sulfide | <2.1 | | 12.7 | 11.0 | | mg/L | | 87 | 75 - 125 | 4 | 20 |

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

Lab Sample ID: MB 180-349924/2
Matrix: Water
Analysis Batch: 349924

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 03/18/21 18:17 | 1 |

Lab Sample ID: LCS 180-349924/1
Matrix: Water
Analysis Batch: 349924

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|------------------------|-------------|------------|---------------|------|---|------|----------|
| Total Dissolved Solids | 457 | 422 | | mg/L | | 92 | 80 - 120 |

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

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

Lab Sample ID: 180-118350-7 DU
Matrix: Water
Analysis Batch: 349924

Client Sample ID: Dup-2
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 170 | H | 182 | | mg/L | | 9 | 10 |

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-349682/54
Matrix: Water
Analysis Batch: 349682

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Total Alkalinity as CaCO3 to pH 4.5 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/17/21 01:27 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 5.0 | mg/L | | | 03/17/21 01:27 | 1 |

Lab Sample ID: LCS 180-349682/53
Matrix: Water
Analysis Batch: 349682

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Alkalinity as CaCO3 to pH 4.5 | 250 | 230 | | mg/L | | 92 | 90 - 110 |

Lab Sample ID: 180-118350-2 DU
Matrix: Water
Analysis Batch: 349682

Client Sample ID: PZ-25S
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Alkalinity as CaCO3 to pH 4.5 | 45 | | 39.4 | | mg/L | | 14 | 20 |
| Bicarbonate Alkalinity as CaCO3 | 45 | | 39.4 | | mg/L | | 14 | 20 |

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

HPLC/IC

Analysis Batch: 349310

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------------|------------|
| 180-118350-1 | PZ-23D | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118350-2 | PZ-25S | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118350-3 | PZ-26S | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118350-4 | PZ-26D | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118350-5 | PZ-28 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118350-6 | EB-2 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118350-7 | Dup-2 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118350-8 | FB-2 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118350-9 | PZ-29D | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 180-349310/6 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 180-349310/5 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118350-4 MS | PZ-26D | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-118350-4 MSD | PZ-26D | Total/NA | Water | EPA 300.0 R2.1 | |

Metals

Prep Batch: 349566

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 180-118350-1 | PZ-23D | Total Recoverable | Water | 3005A | |
| 180-118350-2 | PZ-25S | Total Recoverable | Water | 3005A | |
| 180-118350-3 | PZ-26S | Total Recoverable | Water | 3005A | |
| 180-118350-4 | PZ-26D | Total Recoverable | Water | 3005A | |
| 180-118350-5 | PZ-28 | Total Recoverable | Water | 3005A | |
| 180-118350-6 | EB-2 | Total Recoverable | Water | 3005A | |
| 180-118350-7 | Dup-2 | Total Recoverable | Water | 3005A | |
| 180-118350-8 | FB-2 | Total Recoverable | Water | 3005A | |
| 180-118350-9 | PZ-29D | Total Recoverable | Water | 3005A | |
| MB 180-349566/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 180-349566/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 180-118350-1 MS | PZ-23D | Total Recoverable | Water | 3005A | |
| 180-118350-1 MSD | PZ-23D | Total Recoverable | Water | 3005A | |

Analysis Batch: 349781

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|-----------|------------|
| 180-118350-1 | PZ-23D | Total Recoverable | Water | EPA 6020B | 349566 |
| 180-118350-2 | PZ-25S | Total Recoverable | Water | EPA 6020B | 349566 |
| 180-118350-3 | PZ-26S | Total Recoverable | Water | EPA 6020B | 349566 |
| 180-118350-4 | PZ-26D | Total Recoverable | Water | EPA 6020B | 349566 |
| 180-118350-5 | PZ-28 | Total Recoverable | Water | EPA 6020B | 349566 |
| 180-118350-6 | EB-2 | Total Recoverable | Water | EPA 6020B | 349566 |
| 180-118350-7 | Dup-2 | Total Recoverable | Water | EPA 6020B | 349566 |
| 180-118350-8 | FB-2 | Total Recoverable | Water | EPA 6020B | 349566 |
| 180-118350-9 | PZ-29D | Total Recoverable | Water | EPA 6020B | 349566 |
| MB 180-349566/1-A | Method Blank | Total Recoverable | Water | EPA 6020B | 349566 |
| LCS 180-349566/2-A | Lab Control Sample | Total Recoverable | Water | EPA 6020B | 349566 |
| 180-118350-1 MS | PZ-23D | Total Recoverable | Water | EPA 6020B | 349566 |
| 180-118350-1 MSD | PZ-23D | Total Recoverable | Water | EPA 6020B | 349566 |

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

General Chemistry

Prep Batch: 349361

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-118350-1 | PZ-23D | Total/NA | Water | 9030B | |
| MB 180-349361/1-A | Method Blank | Total/NA | Water | 9030B | |
| LCS 180-349361/2-A | Lab Control Sample | Total/NA | Water | 9030B | |

Prep Batch: 349362

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 180-118350-2 | PZ-25S | Total/NA | Water | 9030B | |
| 180-118350-3 | PZ-26S | Total/NA | Water | 9030B | |
| 180-118350-4 | PZ-26D | Total/NA | Water | 9030B | |
| 180-118350-5 | PZ-28 | Total/NA | Water | 9030B | |
| 180-118350-6 | EB-2 | Total/NA | Water | 9030B | |
| 180-118350-7 | Dup-2 | Total/NA | Water | 9030B | |
| 180-118350-8 | FB-2 | Total/NA | Water | 9030B | |
| 180-118350-9 | PZ-29D | Total/NA | Water | 9030B | |
| MB 180-349362/1-A | Method Blank | Total/NA | Water | 9030B | |
| LCS 180-349362/2-A | Lab Control Sample | Total/NA | Water | 9030B | |
| 180-118350-2 MS | PZ-25S | Total/NA | Water | 9030B | |
| 180-118350-2 MSD | PZ-25S | Total/NA | Water | 9030B | |

Analysis Batch: 349549

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| 180-118350-1 | PZ-23D | Total/NA | Water | EPA 9034 | 349361 |
| MB 180-349361/1-A | Method Blank | Total/NA | Water | EPA 9034 | 349361 |
| LCS 180-349361/2-A | Lab Control Sample | Total/NA | Water | EPA 9034 | 349361 |

Analysis Batch: 349551

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| 180-118350-2 | PZ-25S | Total/NA | Water | EPA 9034 | 349362 |
| 180-118350-3 | PZ-26S | Total/NA | Water | EPA 9034 | 349362 |
| 180-118350-4 | PZ-26D | Total/NA | Water | EPA 9034 | 349362 |
| 180-118350-5 | PZ-28 | Total/NA | Water | EPA 9034 | 349362 |
| 180-118350-6 | EB-2 | Total/NA | Water | EPA 9034 | 349362 |
| 180-118350-7 | Dup-2 | Total/NA | Water | EPA 9034 | 349362 |
| 180-118350-8 | FB-2 | Total/NA | Water | EPA 9034 | 349362 |
| 180-118350-9 | PZ-29D | Total/NA | Water | EPA 9034 | 349362 |
| MB 180-349362/1-A | Method Blank | Total/NA | Water | EPA 9034 | 349362 |
| LCS 180-349362/2-A | Lab Control Sample | Total/NA | Water | EPA 9034 | 349362 |
| 180-118350-2 MS | PZ-25S | Total/NA | Water | EPA 9034 | 349362 |
| 180-118350-2 MSD | PZ-25S | Total/NA | Water | EPA 9034 | 349362 |

Analysis Batch: 349682

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 180-118350-1 | PZ-23D | Total/NA | Water | SM2320 B | |
| 180-118350-2 | PZ-25S | Total/NA | Water | SM2320 B | |
| 180-118350-3 | PZ-26S | Total/NA | Water | SM2320 B | |
| 180-118350-4 | PZ-26D | Total/NA | Water | SM2320 B | |
| 180-118350-5 | PZ-28 | Total/NA | Water | SM2320 B | |
| 180-118350-6 | EB-2 | Total/NA | Water | SM2320 B | |
| 180-118350-7 | Dup-2 | Total/NA | Water | SM2320 B | |
| 180-118350-8 | FB-2 | Total/NA | Water | SM2320 B | |
| 180-118350-9 | PZ-29D | Total/NA | Water | SM2320 B | |

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

General Chemistry (Continued)

Analysis Batch: 349682 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| MB 180-349682/54 | Method Blank | Total/NA | Water | SM2320 B | |
| LCS 180-349682/53 | Lab Control Sample | Total/NA | Water | SM2320 B | |
| 180-118350-2 DU | PZ-25S | Total/NA | Water | SM2320 B | |

Analysis Batch: 349924

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-118350-1 | PZ-23D | Total/NA | Water | SM 2540C | |
| 180-118350-2 | PZ-25S | Total/NA | Water | SM 2540C | |
| 180-118350-3 | PZ-26S | Total/NA | Water | SM 2540C | |
| 180-118350-4 | PZ-26D | Total/NA | Water | SM 2540C | |
| 180-118350-5 | PZ-28 | Total/NA | Water | SM 2540C | |
| 180-118350-6 | EB-2 | Total/NA | Water | SM 2540C | |
| 180-118350-7 | Dup-2 | Total/NA | Water | SM 2540C | |
| 180-118350-8 | FB-2 | Total/NA | Water | SM 2540C | |
| 180-118350-9 | PZ-29D | Total/NA | Water | SM 2540C | |
| MB 180-349924/2 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-349924/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 180-118350-7 DU | Dup-2 | Total/NA | Water | SM 2540C | |

Field Service / Mobile Lab

Analysis Batch: 349443

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 180-118350-1 | PZ-23D | Total/NA | Water | Field Sampling | |
| 180-118350-2 | PZ-25S | Total/NA | Water | Field Sampling | |
| 180-118350-3 | PZ-26S | Total/NA | Water | Field Sampling | |
| 180-118350-4 | PZ-26D | Total/NA | Water | Field Sampling | |
| 180-118350-5 | PZ-28 | Total/NA | Water | Field Sampling | |
| 180-118350-9 | PZ-29D | Total/NA | Water | Field Sampling | |

Chain of Custody Record

| Client Information Client Contact: <i>Lydia Ker / H. Add / T. Goble</i> SCS Contacts: <i>770-598-5994</i> Company: GA Power Address: 241 Ralph McGill Blvd SE City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: SCS Contacts Project Name: CCR - Plant Wansley Ash Pond PZ Site: | | Lab PW: Brown, Shail E-Mail: shail.brown@eurofinset.com Carrier Tracking No(s): COC No: Page: <i>1 of 1</i> Job #: | | | | | | | | | |
|---|----------------|---|------------------------------|---|-----------------------------------|----------------------------|------------------------|--------------------------------------|--|--|----------------------------|
| Analysis Requested Due Date Requested: TAT Requested (days): RUSH 3-day TAT PO #: SCS10382606 WO #: Project #: 18019922 SSOW#: | | | | | | | | | | | |
| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air) | Field Filtered Sample (Yes or No) | Perom (MS/MSD) (Yes or No) | App III Metals (B, Ca) | Cl, F, SO & TDS (EPA 300 & SM 2540C) | Major Ions - Bicarbonate Alkalinity, Total Alkalinity, Iron, Magnesium, Manganese, Sodium, sulfide | Preservation Codes: | Special Instructions/Note: |
| | | | | | | | | | | | |
| <i>PZ-23D</i> | <i>3-9-21</i> | <i>1450</i> | <i>G</i> | <i>Water</i> | <i>N</i> | <i>N</i> | <i>✓</i> | <i>✓</i> | <i>✓</i> | | <i>pH= 6.85</i> |
| <i>PZ-25S</i> | <i>3-9-21</i> | <i>1642</i> | <i>G</i> | <i>Water</i> | <i>N</i> | <i>N</i> | <i>✓</i> | <i>✓</i> | <i>✓</i> | | <i>pH= 5.81</i> |
| <i>PZ-26S</i> | <i>3-9-21</i> | <i>1434</i> | <i>G</i> | <i>Water</i> | <i>N</i> | <i>N</i> | <i>✓</i> | <i>✓</i> | <i>✓</i> | | <i>pH= 4.29</i> |
| <i>PZ-26D</i> | <i>3-9-21</i> | <i>1338</i> | <i>G</i> | <i>Water</i> | <i>N</i> | <i>N</i> | <i>✓</i> | <i>✓</i> | <i>✓</i> | | <i>pH= 6.19</i> |
| <i>PZ-28</i> | <i>3-9-21</i> | <i>1533</i> | <i>G</i> | <i>Water</i> | <i>N</i> | <i>N</i> | <i>✓</i> | <i>✓</i> | <i>✓</i> | | <i>pH= 5.65</i> |
| <i>EB-2</i> | <i>3-9-21</i> | <i>1725</i> | <i>G</i> | <i>Water</i> | <i>N</i> | <i>N</i> | <i>✓</i> | <i>✓</i> | <i>✓</i> | | <i>pH=</i> |
| <i>Dup-2</i> | <i>3-9-21</i> | <i>-</i> | <i>G</i> | <i>Water</i> | <i>N</i> | <i>N</i> | <i>✓</i> | <i>✓</i> | <i>✓</i> | | <i>pH=</i> |
| <i>FB-2</i> | <i>3-9-21</i> | <i>1420</i> | <i>G</i> | <i>Water</i> | <i>N</i> | <i>N</i> | <i>✓</i> | <i>✓</i> | <i>✓</i> | | <i>pH=</i> |
| <i>PZ-29D</i> | <i>3-11-21</i> | <i>1225</i> | <i>G</i> | <i>Water</i> | <i>N</i> | <i>N</i> | <i>✓</i> | <i>✓</i> | <i>✓</i> | | <i>pH= 6.41</i> |
| | | | <i>G</i> | <i>Water</i> | | | | | | | <i>pH=</i> |
| | | | <i>G</i> | <i>Water</i> | | | | | | | <i>pH=</i> |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months Special Instructions/QC Requirements: | | | | | | | | | | | |
| Empty Kit Relinquished by: | | | | | | | | | | Date: | |
| Relinquished by: <i>Shail</i> | | | | | | | | | | Date/Time: <i>3-11-21 / 1645</i> | |
| Relinquished by: <i>Lydia</i> | | | | | | | | | | Date/Time: <i>3/11/21</i> | |
| Relinquished by: <i>Shail</i> | | | | | | | | | | Date/Time: <i>3/11/21</i> | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | Custody Seal No.: | |
| Cooler Temperature(s) °C and Other Remarks: | | | | | | | | | | Received by: <i>Shail</i> Date/Time: <i>3/11/21 16:45</i> Company: <i>EB</i> Received by: <i>Lydia</i> Date/Time: <i>3/12/21</i> Company: <i>EB</i> Received by: <i>Shail</i> Date/Time: <i>3/12/21</i> Company: <i>EB</i> | |



- 1
- 2
- 3
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- 6
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- 11
- 12
- 13

... Using This Tag

Ref: PLT WANSLEY ACCC Date: 11Mar21
 Dep: Wgt: 58.40 LBS
 DV: 0.00 SHIPPING: 0.00
 SPECIAL: 0.00
 HANDLING: 0.00
 TOTAL: 0.00

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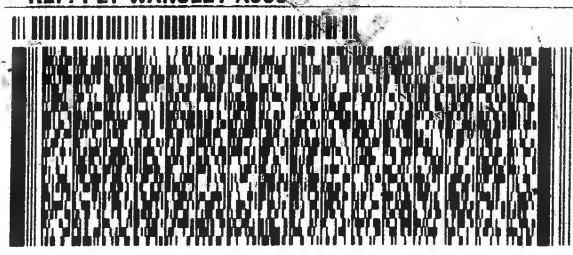


Part # 159489-444 RITZ EXP 11/21



ORIGIN ID: LIYA (678) 966-9991 SHIP DATE: 11MAR21
 GEORGE TAYLOR ACTWGT: 58.40 LB
 EUROFINS TESTING AMERICA ATL SC CAD: 859116/CAFE3409
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071 BILL RECIPIENT
 UNITED STATES US

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
 (412) 963-7068
 REF: PLT WANSLEY ACCC



3 of 6 FRI - 12 MAR 4:30P
 MPS# 1516 9328 6580 STANDARD OVERNIGHT
 0263
 Mstr# 1516 9328 6568 0201

NA AGCA 15238
 PA-US PIT

Uncorrected temp _____ °C
 Thermometer ID _____

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18

DV: 0.00 TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRACK: 1516 9328 6605

Part # 159469-434 RIT2 EXP 11/18



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

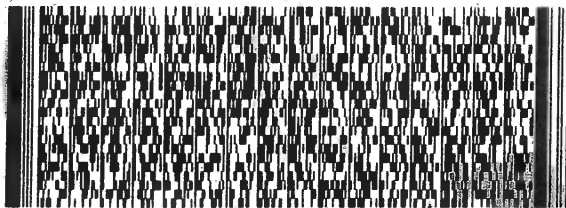
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058

REF: PLT WANSLEY ACCC



FedEx
Express



5 of 6

MPS# 1516 9328 6605
0263

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

Mstr# 1516 9328 6568

0201

NA AGCA

15238

PA-US

PIT

Uncorrected temp 22 °C
Thermometer ID 14

CF 0 Initials J

PT-WI-SR-001 effective 11/8/18



Ref: PLT WANSLEY ACCC Date: 11Mar21 SHIPPING: 0.00
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 DV: 0.00 HANDLING: 0.00
 TOTAL: 0.00

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 TRCK: 1516 9328 6579



Environment Testing
 TestAmerica

Part # 159469-434 RITZ EXP 11/21

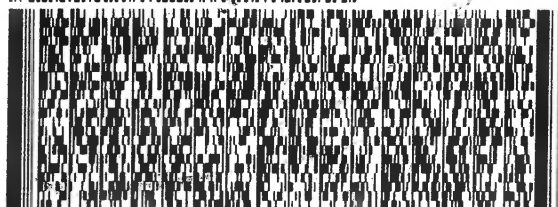
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 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

SHIP DATE: 11MAR21
 ACTWGT: 58.40 LB
 CAD: 859116/CAFE3409

BILL RECEIPT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
 REF: PLT WANSLEY ACCC



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2 of 6

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

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Mstr# 1516 9328 6568

0201

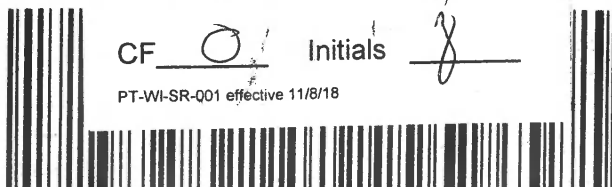
NA AGCA

15238
PIT

Uncorrected temp 2.9 °C
 Thermometer ID 14

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18



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 DV: 0.00 HANDLING: 0.00
 TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
 TRACK: 1516 9328 6616



Environment Testing
 TestAmerica

33469-434 RTZ EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

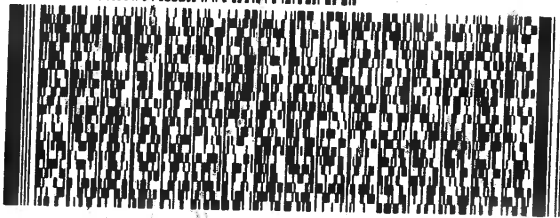
SHIP DATE: 11MAR21
 ACTWGT: 58.40 LB
 CAD: 859116/CAFE3409

BILL RECIPIENT

TO: **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7058

REF: PLT WANSLEY AGCC



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 Express



12012012121801 09

6 of 6
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 Mstr# 1516 9328 6568

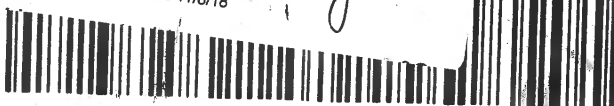
FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA
 Uncorrected temp
 Thermometer ID

15238
 PA-US **PIT**

CF 0 Initials g

PT-WI-SR-001 effective 11/8/18



Do Not Lift Using This Tag

Ref: PLT WANSLEY ACCC Date: 11Mar21 SHIPPING: 0.00
Dep: Wgt: 58.40 LBS SPECIAL: 0.00
DV: 0.00 HANDLING: 0.00
TOTAL: 0.00

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TRACK: 1516 9328 6590



Environment Testing
TestAmerica

Part # 159469-434 RIT2 EXP 11/21

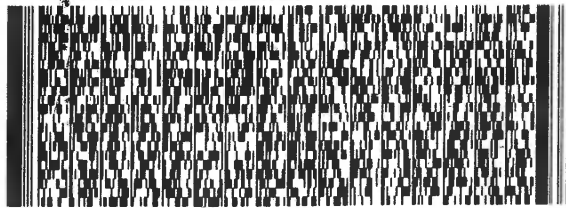
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBORGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: PLT WANSLEY ACCC



FedEx
Express



4 of 6

MPS# 1516 9328 6590

0263 Mstr# 1516 9328 6568

0201

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

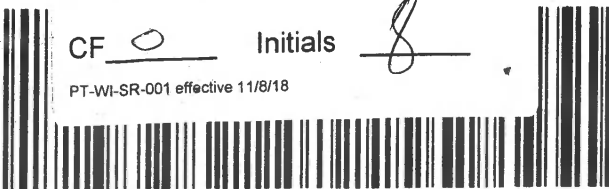
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PIT

Uncorrected temp
Thermometer ID

2.5 °C
119

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18





Do Not Lift Using This Tag



**Environment Testing
TestAmerica**

Part # 159469-434 RT2 EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

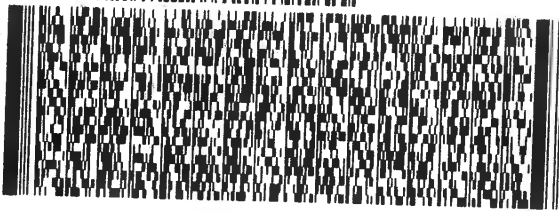
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

**TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238**

(412) 963-7068

REF: PLT WANSLEY ACCC



**FedEx
Express**



1 of 6

TRK# 1516 9328 6568
0201

MASTER

**FRI - 12 MAR 4:30P
STANDARD OVERNIGHT**

NA AGCA

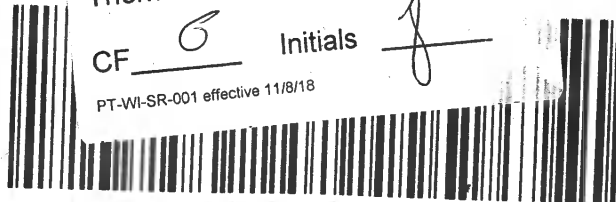
Uncorrected temp
Thermometer ID

2.8 °C
14
Initials

15238
us PIT

CF 6

PT-WI-SR-001 effective 11/8/18



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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118350-1

Login Number: 118350

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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

Analytical Laboratory Packages - April 2021

ANALYTICAL REPORT

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

Laboratory Job ID: 180-119811-1

Client Project/Site: Plant Wansley Ash Pond PZ
Revision: 1

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
5/4/2021 6:00:10 PM

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

NOTE:

PZ-22 has been reclassified as WGWC-20
PZ-23S has been reclassified as WGWC-21
PZ-24 has been reclassified as WGWC-22
PZ-25S has been reclassified as WGWC-23
PZ-26S has been reclassified as WGWC-24
PZ-27S has been reclassified as WGWC-25

LINKS

Review your project
results through
Total Access

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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Table of Contents

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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Job ID: 180-119811-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-119811-1

Comments

050421 Revised repot to add Lithim to the following samples at client request: 180-119811-1 (PZ-22), 180-119811-2 (PZ-23S), 180-119811-3 (PZ-24), 180-119811-4 (PZ-25S), 180-119811-5 (PZ-26S), 180-119811-17 (PZ-27S).
This report replaces the report previously issued on 041821.

Receipt

The samples were received on 4/10/2021 10:00 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 3.2° C and 3.6° C.

GC Semi VOA

Method 300.0: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 180-352846 were low outside control limits for Fluoride: (180-119811-B-3 MS) and (180-119811-B-3 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

Metals

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

Field Service / Mobile Lab

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

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 Wansley Ash Pond PZ

Job ID: 180-119811-1

Qualifiers

HPLC/IC

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

Metals

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

Glossary

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

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

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 180-119811-1 | PZ-22 | Water | 04/08/21 14:00 | 04/10/21 10:00 | |
| 180-119811-2 | PZ-23S | Water | 04/07/21 12:54 | 04/10/21 10:00 | |
| 180-119811-3 | PZ-24 | Water | 04/08/21 12:30 | 04/10/21 10:00 | |
| 180-119811-4 | PZ-25S | Water | 04/07/21 11:20 | 04/10/21 10:00 | |
| 180-119811-5 | PZ-26S | Water | 04/07/21 14:28 | 04/10/21 10:00 | |
| 180-119811-6 | PZ-26D | Water | 04/07/21 15:37 | 04/10/21 10:00 | |
| 180-119811-7 | PZ-28 | Water | 04/08/21 10:57 | 04/10/21 10:00 | |
| 180-119811-8 | EB-2 | Water | 04/07/21 12:20 | 04/10/21 10:00 | |
| 180-119811-9 | FB-2 | Water | 04/08/21 13:40 | 04/10/21 10:00 | |
| 180-119811-10 | Dup-2 | Water | 04/07/21 00:00 | 04/10/21 10:00 | |
| 180-119811-11 | Dup-1 | Water | 04/08/21 00:00 | 04/10/21 10:00 | |
| 180-119811-12 | FB-1 | Water | 04/07/21 15:10 | 04/10/21 10:00 | |
| 180-119811-13 | EB-1 | Water | 04/07/21 15:40 | 04/10/21 10:00 | |
| 180-119811-14 | PZ-27D | Water | 04/07/21 15:29 | 04/10/21 10:00 | |
| 180-119811-15 | PZ-23D | Water | 04/08/21 11:55 | 04/10/21 10:00 | |
| 180-119811-16 | PZ-29D | Water | 04/08/21 13:15 | 04/10/21 10:00 | |
| 180-119811-17 | PZ-27S | Water | 04/08/21 14:31 | 04/10/21 10:00 | |

NOTE:
PZ-22 has been reclassified as WGWC-20
PZ-23S has been reclassified as WGWC-21
PZ-24 has been reclassified as WGWC-22
PZ-25S has been reclassified as WGWC-23
PZ-26S has been reclassified as WGWC-24
PZ-27S has been reclassified as WGWC-25

Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

| Method | Method Description | Protocol | Laboratory |
|----------------|--|----------|------------|
| EPA 300.0 R2.1 | Anions, Ion Chromatography | EPA | TAL PIT |
| EPA 6020B | Metals (ICP/MS) | SW846 | TAL PIT |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL PIT |
| Field Sampling | Field Sampling | EPA | TAL PIT |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | TAL PIT |

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-22
Date Collected: 04/08/21 14:00
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-1
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 300.0 R2.1 Instrument ID: INTEGRION | | 1 | | | 352846 | 04/13/21 15:23 | EPS | TAL PIT |
| Total/NA | Analysis | EPA 300.0 R2.1 Instrument ID: INTEGRION | | 5 | | | 352846 | 04/13/21 15:41 | EPS | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: NEMO | | 1 | | | 353260 | 04/15/21 14:03 | RJR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 352774 | 04/08/21 14:00 | FDS | TAL PIT |

Client Sample ID: PZ-23S
Date Collected: 04/07/21 12:54
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-2
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 300.0 R2.1 Instrument ID: INTEGRION | | 1 | | | 352846 | 04/13/21 17:46 | EPS | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: NEMO | | 1 | | | 353260 | 04/15/21 14:21 | RJR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 352774 | 04/07/21 12:54 | FDS | TAL PIT |

Client Sample ID: PZ-24
Date Collected: 04/08/21 12:30
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-3
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 300.0 R2.1 Instrument ID: INTEGRION | | 1 | | | 352846 | 04/13/21 09:34 | EPS | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: NEMO | | 1 | | | 353260 | 04/15/21 14:24 | RJR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 352774 | 04/08/21 12:30 | FDS | TAL PIT |

NOTE:
 PZ-22 has been reclassified as WGWC-20
 PZ-23S has been reclassified as WGWC-21
 PZ-24 has been reclassified as WGWC-22
 PZ-25S has been reclassified as WGWC-23
 PZ-26S has been reclassified as WGWC-24
 PZ-27S has been reclassified as WGWC-25

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-25S

Lab Sample ID: 180-119811-4

Date Collected: 04/07/21 11:20

Matrix: Water

Date Received: 04/10/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 Instrument ID: INTEGRION | | 1 | | | 352846 | 04/13/21 16:53 | EPS | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: NEMO | | 1 | | | 353260 | 04/15/21 14:26 | RJR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 352774 | 04/07/21 11:20 | FDS | TAL PIT |

Client Sample ID: PZ-26S

Lab Sample ID: 180-119811-5

Date Collected: 04/07/21 14:28

Matrix: Water

Date Received: 04/10/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 Instrument ID: INTEGRION | | 1 | | | 352846 | 04/13/21 18:22 | EPS | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: NEMO | | 1 | | | 353260 | 04/15/21 14:29 | RJR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 352774 | 04/07/21 14:28 | FDS | TAL PIT |

Client Sample ID: PZ-26D

Lab Sample ID: 180-119811-6

Date Collected: 04/07/21 15:37

Matrix: Water

Date Received: 04/10/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 Instrument ID: INTEGRION | | 1 | | | 352846 | 04/14/21 02:22 | EPS | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: NEMO | | 1 | | | 353260 | 04/15/21 14:32 | RJR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |
| Total/NA | Analysis | Field Sampling Instrument ID: NOEQUIP | | 1 | | | 352774 | 04/07/21 15:37 | FDS | TAL PIT |

NOTE:
 PZ-22 has been reclassified as WGWC-20
 PZ-23S has been reclassified as WGWC-21
 PZ-24 has been reclassified as WGWC-22
 PZ-25S has been reclassified as WGWC-23
 PZ-26S has been reclassified as WGWC-24
 PZ-27S has been reclassified as WGWC-25

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-28

Lab Sample ID: 180-119811-7

Date Collected: 04/08/21 10:57

Matrix: Water

Date Received: 04/10/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 352846 | 04/13/21 22:48 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 353260 | 04/15/21 14:35 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 352774 | 04/08/21 10:57 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: EB-2

Lab Sample ID: 180-119811-8

Date Collected: 04/07/21 12:20

Matrix: Water

Date Received: 04/10/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 352846 | 04/13/21 14:30 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 353260 | 04/15/21 14:37 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: FB-2

Lab Sample ID: 180-119811-9

Date Collected: 04/08/21 13:40

Matrix: Water

Date Received: 04/10/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 352846 | 04/13/21 14:47 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 353260 | 04/15/21 14:45 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: Dup-2

Lab Sample ID: 180-119811-10

Date Collected: 04/07/21 00:00

Matrix: Water

Date Received: 04/10/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 352846 | 04/13/21 18:58 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 353260 | 04/15/21 14:48 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: Dup-2
Date Collected: 04/07/21 00:00
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-10
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 | SM 2540C | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |

Client Sample ID: Dup-1
Date Collected: 04/08/21 00:00
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-11
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 300.0 R2.1 Instrument ID: INTEGRION | | 1 | | | 352846 | 04/13/21 11:04 | EPS | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: NEMO | | 1 | | | 353260 | 04/15/21 14:51 | RJR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |

Client Sample ID: FB-1
Date Collected: 04/07/21 15:10
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-12
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 Instrument ID: INTEGRION | | 1 | | | 352846 | 04/13/21 15:05 | EPS | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: NEMO | | 1 | | | 353260 | 04/15/21 14:54 | RJR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |

Client Sample ID: EB-1
Date Collected: 04/07/21 15:40
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-13
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 Instrument ID: INTEGRION | | 1 | | | 352846 | 04/13/21 16:35 | EPS | TAL PIT |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B Instrument ID: NEMO | | 1 | | | 353260 | 04/15/21 14:56 | RJR | TAL PIT |
| Total/NA | Analysis | SM 2540C Instrument ID: NOEQUIP | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-27D

Date Collected: 04/07/21 15:29

Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-14

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 352846 | 04/13/21 10:28 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 353260 | 04/15/21 14:59 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 352774 | 04/07/21 15:29 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PZ-23D

Date Collected: 04/08/21 11:55

Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-15

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 352846 | 04/13/21 11:22 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 353260 | 04/15/21 15:02 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 352774 | 04/08/21 11:55 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PZ-29D

Date Collected: 04/08/21 13:15

Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-16

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 352846 | 04/13/21 11:40 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 353260 | 04/15/21 15:04 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 352774 | 04/08/21 13:15 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-27S

Lab Sample ID: 180-119811-17

Date Collected: 04/08/21 14:31

Matrix: Water

Date Received: 04/10/21 10:00

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | EPA 300.0 R2.1 | | 1 | | | 352846 | 04/14/21 00:53 | EPS | TAL PIT |
| Instrument ID: INTEGRION | | | | | | | | | | |
| Total Recoverable | Prep | 3005A | | | 50 mL | 50 mL | 352766 | 04/12/21 12:45 | KEM | TAL PIT |
| Total Recoverable | Analysis | EPA 6020B | | 1 | | | 353260 | 04/15/21 15:07 | RJR | TAL PIT |
| Instrument ID: NEMO | | | | | | | | | | |
| Total/NA | Analysis | SM 2540C | | 1 | 100 mL | 100 mL | 353099 | 04/14/21 18:42 | KMM | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |
| Total/NA | Analysis | Field Sampling | | 1 | | | 352774 | 04/08/21 14:31 | FDS | TAL PIT |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

Batch Type: Analysis

EPS = Evan Scheuer

FDS = Sampler Field

KMM = Kendric Moore

RJR = Ron Rosenbaum

NOTE:

PZ-22 has been reclassified as WGWC-20
 PZ-23S has been reclassified as WGWC-21
 PZ-24 has been reclassified as WGWC-22
 PZ-25S has been reclassified as WGWC-23
 PZ-26S has been reclassified as WGWC-24
 PZ-27S has been reclassified as WGWC-25

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-22

Lab Sample ID: 180-119811-1

Date Collected: 04/08/21 14:00

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 57 | | 1.0 | 0.71 | mg/L | | | 04/13/21 15:23 | 1 |
| Fluoride | 1.7 | | 0.10 | 0.026 | mg/L | | | 04/13/21 15:23 | 1 |
| Sulfate | 240 | | 5.0 | 3.8 | mg/L | | | 04/13/21 15:41 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Boron | 0.98 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:03 | 1 |
| Calcium | 88 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:03 | 1 |
| Lithium | 0.11 | | 0.0050 | 0.0034 | mg/L | | 04/12/21 12:45 | 04/15/21 14:03 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 540 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.60 | | | | SU | | | 04/08/21 14:00 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-23S

Lab Sample ID: 180-119811-2

Date Collected: 04/07/21 12:54

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 50 | | 1.0 | 0.71 | mg/L | | | 04/13/21 17:46 | 1 |
| Fluoride | 1.6 | | 0.10 | 0.026 | mg/L | | | 04/13/21 17:46 | 1 |
| Sulfate | 190 | | 1.0 | 0.76 | mg/L | | | 04/13/21 17:46 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Boron | 0.13 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:21 | 1 |
| Calcium | 67 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:21 | 1 |
| Lithium | 0.031 | | 0.0050 | 0.0034 | mg/L | | 04/12/21 12:45 | 04/15/21 14:21 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 520 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 7.05 | | | | SU | | | 04/07/21 12:54 | 1 |

NOTE:
PZ-24 has been reclassified as WGWC-22

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-24

Lab Sample ID: 180-119811-3

Date Collected: 04/08/21 12:30

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 2.4 | | 1.0 | 0.71 | mg/L | | | 04/13/21 09:34 | 1 |
| Fluoride | 1.4 | F1 | 0.10 | 0.026 | mg/L | | | 04/13/21 09:34 | 1 |
| Sulfate | 60 | | 1.0 | 0.76 | mg/L | | | 04/13/21 09:34 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Boron | 0.21 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:24 | 1 |
| Calcium | 14 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:24 | 1 |
| Lithium | 0.0081 | | 0.0050 | 0.0034 | mg/L | | 04/12/21 12:45 | 04/15/21 14:24 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 170 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.01 | | | | SU | | | 04/08/21 12:30 | 1 |

NOTE:
PZ-25S has been reclassified as WGWC-23

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-25S

Lab Sample ID: 180-119811-4

Date Collected: 04/07/21 11:20

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3.7 | | 1.0 | 0.71 | mg/L | | | 04/13/21 16:53 | 1 |
| Fluoride | 0.093 | J | 0.10 | 0.026 | mg/L | | | 04/13/21 16:53 | 1 |
| Sulfate | 5.1 | | 1.0 | 0.76 | mg/L | | | 04/13/21 16:53 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:26 | 1 |
| Calcium | 2.7 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:26 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 04/12/21 12:45 | 04/15/21 14:26 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 66 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.57 | | | | SU | | | 04/07/21 11:20 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-26S

Lab Sample ID: 180-119811-5

Date Collected: 04/07/21 14:28

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 110 | | 1.0 | 0.71 | mg/L | | | 04/13/21 18:22 | 1 |
| Fluoride | 1.1 | | 0.10 | 0.026 | mg/L | | | 04/13/21 18:22 | 1 |
| Sulfate | 160 | | 1.0 | 0.76 | mg/L | | | 04/13/21 18:22 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Boron | 1.9 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:29 | 1 |
| Calcium | 71 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:29 | 1 |
| Lithium | 0.0077 | | 0.0050 | 0.0034 | mg/L | | 04/12/21 12:45 | 04/15/21 14:29 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 510 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 4.43 | | | | SU | | | 04/07/21 14:28 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-26D

Lab Sample ID: 180-119811-6

Date Collected: 04/07/21 15:37

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 20 | | 1.0 | 0.71 | mg/L | | | 04/14/21 02:22 | 1 |
| Fluoride | 0.22 | | 0.10 | 0.026 | mg/L | | | 04/14/21 02:22 | 1 |
| Sulfate | 48 | | 1.0 | 0.76 | mg/L | | | 04/14/21 02:22 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Boron | 0.15 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:32 | 1 |
| Calcium | 18 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:32 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 410 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.46 | | | | SU | | | 04/07/21 15:37 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-28

Lab Sample ID: 180-119811-7

Date Collected: 04/08/21 10:57

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|------------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 3.6 | | 1.0 | 0.71 | mg/L | | | 04/13/21 22:48 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 04/13/21 22:48 | 1 |
| Sulfate | 1.7 | | 1.0 | 0.76 | mg/L | | | 04/13/21 22:48 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:35 | 1 |
| Calcium | 4.1 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:35 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 62 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.70 | | | | SU | | | 04/08/21 10:57 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: EB-2

Lab Sample ID: 180-119811-8

Date Collected: 04/07/21 12:20

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 04/13/21 14:30 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 04/13/21 14:30 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 04/13/21 14:30 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:37 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:37 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: FB-2

Lab Sample ID: 180-119811-9

Date Collected: 04/08/21 13:40

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 04/13/21 14:47 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 04/13/21 14:47 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 04/13/21 14:47 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:45 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:45 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: Dup-2
 Date Collected: 04/07/21 00:00
 Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-10
 Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 120 | | 1.0 | 0.71 | mg/L | | | 04/13/21 18:58 | 1 |
| Fluoride | 1.1 | | 0.10 | 0.026 | mg/L | | | 04/13/21 18:58 | 1 |
| Sulfate | 170 | | 1.0 | 0.76 | mg/L | | | 04/13/21 18:58 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Boron | 2.1 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:48 | 1 |
| Calcium | 80 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:48 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 470 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: Dup-1

Lab Sample ID: 180-119811-11

Date Collected: 04/08/21 00:00

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 40 | | 1.0 | 0.71 | mg/L | | | 04/13/21 11:04 | 1 |
| Fluoride | 2.2 | | 0.10 | 0.026 | mg/L | | | 04/13/21 11:04 | 1 |
| Sulfate | 100 | | 1.0 | 0.76 | mg/L | | | 04/13/21 11:04 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Boron | 0.60 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:51 | 1 |
| Calcium | 57 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:51 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 290 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: FB-1

Lab Sample ID: 180-119811-12

Date Collected: 04/07/21 15:10

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 04/13/21 15:05 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 04/13/21 15:05 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 04/13/21 15:05 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:54 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:54 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: EB-1

Lab Sample ID: 180-119811-13

Date Collected: 04/07/21 15:40

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 04/13/21 16:35 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 04/13/21 16:35 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 04/13/21 16:35 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:56 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:56 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-27D

Lab Sample ID: 180-119811-14

Date Collected: 04/07/21 15:29

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 100 | | 1.0 | 0.71 | mg/L | | | 04/13/21 10:28 | 1 |
| Fluoride | 0.20 | | 0.10 | 0.026 | mg/L | | | 04/13/21 10:28 | 1 |
| Sulfate | 92 | | 1.0 | 0.76 | mg/L | | | 04/13/21 10:28 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Boron | 0.18 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 14:59 | 1 |
| Calcium | 26 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 14:59 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 480 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 7.38 | | | | SU | | | 04/07/21 15:29 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-23D

Lab Sample ID: 180-119811-15

Date Collected: 04/08/21 11:55

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 39 | | 1.0 | 0.71 | mg/L | | | 04/13/21 11:22 | 1 |
| Fluoride | 2.2 | | 0.10 | 0.026 | mg/L | | | 04/13/21 11:22 | 1 |
| Sulfate | 98 | | 1.0 | 0.76 | mg/L | | | 04/13/21 11:22 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Boron | 0.59 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 15:02 | 1 |
| Calcium | 59 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 15:02 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 300 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.94 | | | | SU | | | 04/08/21 11:55 | 1 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-29D

Lab Sample ID: 180-119811-16

Date Collected: 04/08/21 13:15

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 4.5 | | 1.0 | 0.71 | mg/L | | | 04/13/21 11:40 | 1 |
| Fluoride | 0.056 | J | 0.10 | 0.026 | mg/L | | | 04/13/21 11:40 | 1 |
| Sulfate | 6.4 | | 1.0 | 0.76 | mg/L | | | 04/13/21 11:40 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 15:04 | 1 |
| Calcium | 35 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 15:04 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 180 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 6.34 | | | | SU | | | 04/08/21 13:15 | 1 |

NOTE:
PZ-27S has been reclassified as WGWC-25

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-27S

Lab Sample ID: 180-119811-17

Date Collected: 04/08/21 14:31

Matrix: Water

Date Received: 04/10/21 10:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 77 | | 1.0 | 0.71 | mg/L | | | 04/14/21 00:53 | 1 |
| Fluoride | 0.028 | J | 0.10 | 0.026 | mg/L | | | 04/14/21 00:53 | 1 |
| Sulfate | 5.8 | | 1.0 | 0.76 | mg/L | | | 04/14/21 00:53 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Boron | 0.43 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 15:07 | 1 |
| Calcium | 16 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 15:07 | 1 |
| Lithium | 0.0044 | J | 0.0050 | 0.0034 | mg/L | | 04/12/21 12:45 | 04/15/21 15:07 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 180 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Method: Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| pH | 5.39 | | | | SU | | | 04/08/21 14:31 | 1 |

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-352846/3
Matrix: Water
Analysis Batch: 352846

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 04/13/21 22:30 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 04/13/21 22:30 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 04/13/21 22:30 | 1 |

Lab Sample ID: MB 180-352846/6
Matrix: Water
Analysis Batch: 352846

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|------|---|----------|----------------|---------|
| Chloride | <0.71 | | 1.0 | 0.71 | mg/L | | | 04/13/21 08:48 | 1 |
| Fluoride | <0.026 | | 0.10 | 0.026 | mg/L | | | 04/13/21 08:48 | 1 |
| Sulfate | <0.76 | | 1.0 | 0.76 | mg/L | | | 04/13/21 08:48 | 1 |

Lab Sample ID: LCS 180-352846/42
Matrix: Water
Analysis Batch: 352846

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0 | 54.8 | | mg/L | | 110 | 90 - 110 |
| Fluoride | 2.50 | 2.56 | | mg/L | | 103 | 90 - 110 |
| Sulfate | 50.0 | 54.1 | | mg/L | | 108 | 90 - 110 |

Lab Sample ID: LCS 180-352846/5
Matrix: Water
Analysis Batch: 352846

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 50.0 | 53.7 | | mg/L | | 107 | 90 - 110 |
| Fluoride | 2.50 | 2.52 | | mg/L | | 101 | 90 - 110 |
| Sulfate | 50.0 | 53.9 | | mg/L | | 108 | 90 - 110 |

Lab Sample ID: 180-119811-3 MS
Matrix: Water
Analysis Batch: 352846

Client Sample ID: PZ-24
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 2.4 | | 50.0 | 52.2 | | mg/L | | 100 | 90 - 110 |
| Fluoride | 1.4 | F1 | 2.50 | 3.58 | F1 | mg/L | | 87 | 90 - 110 |
| Sulfate | 60 | | 50.0 | 107 | | mg/L | | 94 | 90 - 110 |

Lab Sample ID: 180-119811-3 MSD
Matrix: Water
Analysis Batch: 352846

Client Sample ID: PZ-24
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 2.4 | | 50.0 | 52.5 | | mg/L | | 100 | 90 - 110 | 0 | 20 |
| Fluoride | 1.4 | F1 | 2.50 | 3.60 | F1 | mg/L | | 88 | 90 - 110 | 1 | 20 |
| Sulfate | 60 | | 50.0 | 108 | | mg/L | | 95 | 90 - 110 | 0 | 20 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-119811-4 MS
Matrix: Water
Analysis Batch: 352846

Client Sample ID: PZ-25S
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 3.7 | | 50.0 | 52.9 | | mg/L | | 98 | 90 - 110 |
| Fluoride | 0.093 | J | 2.50 | 2.38 | | mg/L | | 92 | 90 - 110 |
| Sulfate | 5.1 | | 50.0 | 53.6 | | mg/L | | 97 | 90 - 110 |

Lab Sample ID: 180-119811-4 MSD
Matrix: Water
Analysis Batch: 352846

Client Sample ID: PZ-25S
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 3.7 | | 50.0 | 53.2 | | mg/L | | 99 | 90 - 110 | 1 | 20 |
| Fluoride | 0.093 | J | 2.50 | 2.39 | | mg/L | | 92 | 90 - 110 | 0 | 20 |
| Sulfate | 5.1 | | 50.0 | 54.2 | | mg/L | | 98 | 90 - 110 | 1 | 20 |

Lab Sample ID: 180-119811-7 MS
Matrix: Water
Analysis Batch: 352846

Client Sample ID: PZ-28
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chloride | 3.6 | | 50.0 | 50.3 | | mg/L | | 93 | 90 - 110 |
| Fluoride | <0.026 | | 2.50 | 2.30 | | mg/L | | 92 | 90 - 110 |
| Sulfate | 1.7 | | 50.0 | 48.9 | | mg/L | | 94 | 90 - 110 |

Lab Sample ID: 180-119811-7 MSD
Matrix: Water
Analysis Batch: 352846

Client Sample ID: PZ-28
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 3.6 | | 50.0 | 52.0 | | mg/L | | 97 | 90 - 110 | 3 | 20 |
| Fluoride | <0.026 | | 2.50 | 2.37 | | mg/L | | 95 | 90 - 110 | 3 | 20 |
| Sulfate | 1.7 | | 50.0 | 50.8 | | mg/L | | 98 | 90 - 110 | 4 | 20 |

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

Lab Sample ID: MB 180-352766/1-A
Matrix: Water
Analysis Batch: 353260

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 352766

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|--------|--------|------|---|----------------|----------------|---------|
| Boron | <0.039 | | 0.080 | 0.039 | mg/L | | 04/12/21 12:45 | 04/15/21 13:58 | 1 |
| Calcium | <0.13 | | 0.50 | 0.13 | mg/L | | 04/12/21 12:45 | 04/15/21 13:58 | 1 |
| Lithium | <0.0034 | | 0.0050 | 0.0034 | mg/L | | 04/12/21 12:45 | 04/15/21 13:58 | 1 |

Lab Sample ID: LCS 180-352766/2-A
Matrix: Water
Analysis Batch: 353260

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 352766

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| Boron | 1.25 | 1.22 | | mg/L | | 98 | 80 - 120 |
| Calcium | 25.0 | 30.1 | | mg/L | | 120 | 80 - 120 |
| Lithium | 0.500 | 0.551 | | mg/L | | 110 | 80 - 120 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

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

Lab Sample ID: 180-119811-1 MS
Matrix: Water
Analysis Batch: 353260

Client Sample ID: PZ-22
Prep Type: Total Recoverable
Prep Batch: 352766

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Boron | 0.98 | | 1.25 | 2.25 | | mg/L | | 101 | 75 - 125 |
| Calcium | 88 | | 25.0 | 117 | | mg/L | | 118 | 75 - 125 |
| Lithium | 0.11 | | 0.500 | 0.655 | | mg/L | | 109 | 75 - 125 |

Lab Sample ID: 180-119811-1 MSD
Matrix: Water
Analysis Batch: 353260

Client Sample ID: PZ-22
Prep Type: Total Recoverable
Prep Batch: 352766

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Boron | 0.98 | | 1.25 | 2.20 | | mg/L | | 97 | 75 - 125 | 2 | 20 |
| Calcium | 88 | | 25.0 | 119 | | mg/L | | 124 | 75 - 125 | 1 | 20 |
| Lithium | 0.11 | | 0.500 | 0.642 | | mg/L | | 106 | 75 - 125 | 2 | 20 |

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

Lab Sample ID: MB 180-353099/2
Matrix: Water
Analysis Batch: 353099

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 10 | mg/L | | | 04/14/21 18:42 | 1 |

Lab Sample ID: LCS 180-353099/1
Matrix: Water
Analysis Batch: 353099

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 486 | 448 | | mg/L | | 92 | 80 - 120 |

Lab Sample ID: 180-119811-10 DU
Matrix: Water
Analysis Batch: 353099

Client Sample ID: Dup-2
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 470 | | 500 | | mg/L | | 6 | 10 |

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

HPLC/IC

Analysis Batch: 352846

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------------|------------|
| 180-119811-1 | PZ-22 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-1 | PZ-22 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-2 | PZ-23S | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-3 | PZ-24 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-4 | PZ-25S | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-5 | PZ-26S | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-6 | PZ-26D | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-7 | PZ-28 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-8 | EB-2 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-9 | FB-2 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-10 | Dup-2 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-11 | Dup-1 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-12 | FB-1 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-13 | EB-1 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-14 | PZ-27D | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-15 | PZ-23D | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-16 | PZ-29D | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-17 | PZ-27S | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 180-352846/43 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| MB 180-352846/6 | Method Blank | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 180-352846/42 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |
| LCS 180-352846/5 | Lab Control Sample | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-3 MS | PZ-24 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-3 MSD | PZ-24 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-4 MS | PZ-25S | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-4 MSD | PZ-25S | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-7 MS | PZ-28 | Total/NA | Water | EPA 300.0 R2.1 | |
| 180-119811-7 MSD | PZ-28 | Total/NA | Water | EPA 300.0 R2.1 | |

Metals

Prep Batch: 352766

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-------------------|--------|--------|------------|
| 180-119811-1 | PZ-22 | Total Recoverable | Water | 3005A | |
| 180-119811-2 | PZ-23S | Total Recoverable | Water | 3005A | |
| 180-119811-3 | PZ-24 | Total Recoverable | Water | 3005A | |
| 180-119811-4 | PZ-25S | Total Recoverable | Water | 3005A | |
| 180-119811-5 | PZ-26S | Total Recoverable | Water | 3005A | |
| 180-119811-6 | PZ-26D | Total Recoverable | Water | 3005A | |
| 180-119811-7 | PZ-28 | Total Recoverable | Water | 3005A | |
| 180-119811-8 | EB-2 | Total Recoverable | Water | 3005A | |
| 180-119811-9 | FB-2 | Total Recoverable | Water | 3005A | |
| 180-119811-10 | Dup-2 | Total Recoverable | Water | 3005A | |
| 180-119811-11 | Dup-1 | Total Recoverable | Water | 3005A | |
| 180-119811-12 | FB-1 | Total Recoverable | Water | 3005A | |
| 180-119811-13 | EB-1 | Total Recoverable | Water | 3005A | |
| 180-119811-14 | PZ-27D | Total Recoverable | Water | 3005A | |
| 180-119811-15 | PZ-23D | Total Recoverable | Water | 3005A | |
| 180-119811-16 | PZ-29D | Total Recoverable | Water | 3005A | |
| 180-119811-17 | PZ-27S | Total Recoverable | Water | 3005A | |
| MB 180-352766/1-A | Method Blank | Total Recoverable | Water | 3005A | |

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Metals (Continued)

Prep Batch: 352766 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| LCS 180-352766/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 180-119811-1 MS | PZ-22 | Total Recoverable | Water | 3005A | |
| 180-119811-1 MSD | PZ-22 | Total Recoverable | Water | 3005A | |

Analysis Batch: 353260

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|-----------|------------|
| 180-119811-1 | PZ-22 | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-2 | PZ-23S | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-3 | PZ-24 | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-4 | PZ-25S | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-5 | PZ-26S | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-6 | PZ-26D | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-7 | PZ-28 | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-8 | EB-2 | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-9 | FB-2 | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-10 | Dup-2 | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-11 | Dup-1 | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-12 | FB-1 | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-13 | EB-1 | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-14 | PZ-27D | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-15 | PZ-23D | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-16 | PZ-29D | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-17 | PZ-27S | Total Recoverable | Water | EPA 6020B | 352766 |
| MB 180-352766/1-A | Method Blank | Total Recoverable | Water | EPA 6020B | 352766 |
| LCS 180-352766/2-A | Lab Control Sample | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-1 MS | PZ-22 | Total Recoverable | Water | EPA 6020B | 352766 |
| 180-119811-1 MSD | PZ-22 | Total Recoverable | Water | EPA 6020B | 352766 |

General Chemistry

Analysis Batch: 353099

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 180-119811-1 | PZ-22 | Total/NA | Water | SM 2540C | |
| 180-119811-2 | PZ-23S | Total/NA | Water | SM 2540C | |
| 180-119811-3 | PZ-24 | Total/NA | Water | SM 2540C | |
| 180-119811-4 | PZ-25S | Total/NA | Water | SM 2540C | |
| 180-119811-5 | PZ-26S | Total/NA | Water | SM 2540C | |
| 180-119811-6 | PZ-26D | Total/NA | Water | SM 2540C | |
| 180-119811-7 | PZ-28 | Total/NA | Water | SM 2540C | |
| 180-119811-8 | EB-2 | Total/NA | Water | SM 2540C | |
| 180-119811-9 | FB-2 | Total/NA | Water | SM 2540C | |
| 180-119811-10 | Dup-2 | Total/NA | Water | SM 2540C | |
| 180-119811-11 | Dup-1 | Total/NA | Water | SM 2540C | |
| 180-119811-12 | FB-1 | Total/NA | Water | SM 2540C | |
| 180-119811-13 | EB-1 | Total/NA | Water | SM 2540C | |
| 180-119811-14 | PZ-27D | Total/NA | Water | SM 2540C | |
| 180-119811-15 | PZ-23D | Total/NA | Water | SM 2540C | |
| 180-119811-16 | PZ-29D | Total/NA | Water | SM 2540C | |
| 180-119811-17 | PZ-27S | Total/NA | Water | SM 2540C | |
| MB 180-353099/2 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 180-353099/1 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

General Chemistry (Continued)

Analysis Batch: 353099 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|----------|------------|
| 180-119811-10 DU | Dup-2 | Total/NA | Water | SM 2540C | |

Field Service / Mobile Lab

Analysis Batch: 352774

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 180-119811-1 | PZ-22 | Total/NA | Water | Field Sampling | |
| 180-119811-2 | PZ-23S | Total/NA | Water | Field Sampling | |
| 180-119811-3 | PZ-24 | Total/NA | Water | Field Sampling | |
| 180-119811-4 | PZ-25S | Total/NA | Water | Field Sampling | |
| 180-119811-5 | PZ-26S | Total/NA | Water | Field Sampling | |
| 180-119811-6 | PZ-26D | Total/NA | Water | Field Sampling | |
| 180-119811-7 | PZ-28 | Total/NA | Water | Field Sampling | |
| 180-119811-14 | PZ-27D | Total/NA | Water | Field Sampling | |
| 180-119811-15 | PZ-23D | Total/NA | Water | Field Sampling | |
| 180-119811-16 | PZ-29D | Total/NA | Water | Field Sampling | |
| 180-119811-17 | PZ-27S | Total/NA | Water | Field Sampling | |

Chain of Custody Record



| | | | | | | | | | |
|--|--|--|--|--|--|--|--|---|--|
| Client Information | | Sampler: <u>T. Gobie</u> | | Lab PM: <u>Brown, Shali</u> | | Carrier Tracking No(s): | | COC No: | |
| Client Contact: <u>Atlanta</u> | | Phone: | | E-Mail: <u>shali.brown@eurofinset.com</u> | | Page: <u>1 of 2</u> | | Job #: | |
| Company: <u>GA Power</u> | | Due Date Requested: | | Analysis R# | | Total Number of containers | | Preservation Codes: | |
| Address: <u>241 Ralph McGill Blvd SE</u> | | TAT Requested (days): <u>RUSH 3-day TAT</u> | | Perform MS/MSD (Yes or No) | | Field Filtered Sample (Yes or No) | | 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: <u>Atlanta</u> | | PO #: | | App III Metals (B, Ca) | | C, F, SO & TDS (EPA 300 & SM 2540C) | | M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - other (specify) | |
| State, Zip: <u>GA, 30308</u> | | WO #: | | Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air) | | Special Instructions/Note: | | Special Instructions/Note: | |
| Phone: <u>404-506-7116(Tel)</u> | | Project #: | | Sample Type (C=comp, G=grab) | | pH= | | pH= | |
| Email: | | SSOW#: | | Sample Time | | pH= | | pH= | |
| SCS Contacts | | Project Name: <u>CCR - Plant Wansley Ash Pond PZ</u> | | Sample Date | | pH= | | pH= | |
| Site: | | Site: | | Preservation Code: | | pH= | | pH= | |
| Sample Identification | | Sample Date | | Sample Time | | pH= | | pH= | |
| <u>PZ-22</u> | | <u>4-8-21</u> | | <u>1400</u> | | <u>3</u> | | <u>5.60</u> | |
| <u>PZ-23S</u> | | <u>4-7-21</u> | | <u>1254</u> | | <u>3</u> | | <u>7.05</u> | |
| <u>PZ-24</u> | | <u>4-8-21</u> | | <u>1230</u> | | <u>3</u> | | <u>6.01</u> | |
| <u>PZ-25S</u> | | <u>4-7-21</u> | | <u>1120</u> | | <u>3</u> | | <u>5.57</u> | |
| <u>PZ-26S</u> | | <u>4-7-21</u> | | <u>1428</u> | | <u>3</u> | | <u>4.43</u> | |
| <u>PZ-26D</u> | | <u>4-7-21</u> | | <u>1537</u> | | <u>3</u> | | <u>6.46</u> | |
| <u>PZ-28</u> | | <u>4-8-21</u> | | <u>1057</u> | | <u>3</u> | | <u>5.70</u> | |
| <u>EB-2</u> | | <u>4-7-21</u> | | <u>1220</u> | | <u>3</u> | | <u>NA</u> | |
| <u>EB-2</u> | | <u>4-8-21</u> | | <u>1340</u> | | <u>3</u> | | <u>NA</u> | |
| <u>Dup-2</u> | | <u>4-7-21</u> | | <u>---</u> | | <u>3</u> | | <u>NA</u> | |
| Possible Hazard Identification | | <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | Special Instructions/QC Requirements: | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | Empty Kit Relinquished by: _____ Date: _____ | | Time: _____ | | Method of Shipment: _____ | | Date/Time: _____ | |
| Relinquished by: <u>Taylor Jell</u> | | Date/Time: <u>4-9-21 / 0910</u> | | Company: <u>ACC</u> | | Received by: <u>[Signature]</u> | | Date/Time: <u>4/9/21 09:10</u> | |
| Relinquished by: <u>[Signature]</u> | | Date/Time: <u>4/9/21 16:00</u> | | Company: <u>EN</u> | | Received by: <u>[Signature]</u> | | Date/Time: <u>4-10-21</u> | |
| Relinquished by: <u>[Signature]</u> | | Date/Time: _____ | | Company: _____ | | Received by: _____ | | Date/Time: <u>10:00</u> | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | Company: _____ | | Company: _____ | |



Chain of Custody Record

| | | | | | | | |
|---|--|---|--|--|---|--|---|
| Client Information Client Contact: <u>O. FUGUEA</u> SCS Contacts: <u>(770) 594-5998</u> Company: <u>shali.brown@eurofinset.com</u> GA, Power | | Lab PM: <u>Brown, Shali</u> E-Mail: <u>shali.brown@eurofinset.com</u> Carrier Tracking No(s): | | COC No: Page: <u>2 of 2</u> Job #: | | | |
| Due Date Requested: TAT Requested (days): <u>RUSH 3-day TAT</u> PO #: <u> </u> WO #: <u> </u> Project #: <u>18019922</u> SSO#: <u> </u> | | Analysis Requested | | | | | |
| Address: <u>241 Ralph McGill Blvd SE</u> City: <u>Atlanta</u> State, Zip: <u>GA, 30308</u> Phone: <u>404-506-7116(Tel)</u> Email: <u> </u> SCS Contacts: <u> </u> Project Name: <u>CCR - Plant Wansley Ash Pond PZ</u> Site: <u> </u> | | Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> App III Metals (B, Ca) <input checked="" type="checkbox"/> C1, F, SO & TDS (EPA 300 & SM 2540C) <input checked="" type="checkbox"/> | | Total Number of Containers: <u> </u> Special Instructions/Note: | | | |
| Sample Identification Sample ID: <u>DUP-1</u> <u>FB-1</u> <u>EB-1</u> <u>PZ-27D</u> <u>PZ-23D</u> <u>PZ-79D</u> <u>PZ-27S</u> | | Sample Date: <u>4-8-21</u> <u>4-7-21</u> <u>4-7-21</u> <u>4-7-21</u> <u>4-8-21</u> <u>4-8-21</u> <u>4-8-21</u> | Sample Time: <u> </u> <u>1510</u> <u>1540</u> <u>1529</u> <u>1155</u> <u>1315</u> <u>1431</u> | Sample Type (C=comp, G=grab): <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> | Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air): <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> | Preservation Code: <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> | pH: <u>NA</u> <u>NA</u> <u>NA</u> <u>7.38</u> <u>6.94</u> <u>6.34</u> <u>5.39</u> <u> </u> <u> </u> <u> </u> <u> </u> |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <u> </u> Months | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | Special Instructions/QC Requirements: | | | | | |
| Empty Kit Relinquished by: <u> </u> Date: <u> </u> | | Method of Shipment: | | | | | |
| Relinquished by: <u> </u> Date/Time: <u>4-9-21 / 0910</u> Company: <u>ACC</u> | | Received by: <u> </u> Date/Time: <u>4/9/21 09:00</u> Company: <u>ETM</u> | | | | | |
| Relinquished by: <u> </u> Date/Time: <u>4/9/21 16:00</u> Company: <u> </u> | | Received by: <u> </u> Date/Time: <u>4-10-21</u> Company: <u>ETM</u> | | | | | |
| Relinquished by: <u> </u> Date/Time: <u> </u> Company: <u> </u> | | Received by: <u> </u> Date/Time: <u>10:00</u> Company: <u> </u> | | | | | |
| Custody Seals Intact: <u> </u> Custody Seal No.: <u> </u> | | Cooler Temperature(s) °C and Other Remarks: | | | | | |



Do Not Lift Using This Tag

WWW.FEDEX.COM

Delivery Saturday

SDR

FedEx Saturday Delivery



DR



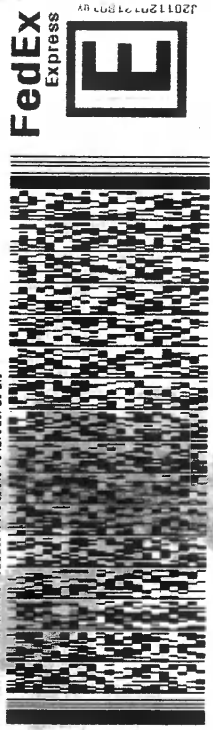
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 09A
ACTWGT: 45.25
CAD: 859116ZCAF

BILL RECIPIENT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068

REF: ACC - PLT WANSLEY



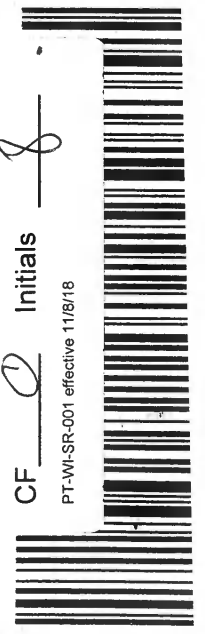
SATURDAY 12:00P
PRIORITY OVERNIGHT

2 of 2
MPS# 1516 9329 3478
Mstr# 1516 9329 3467

XO AGCA
Uncorrected temp 3.2 °C
Thermometer ID 15238 PIT

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18



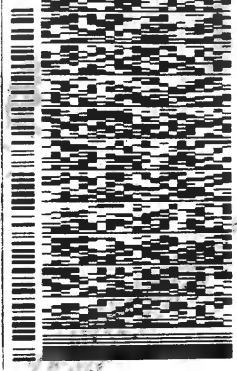
ID: LIYA (678) 966-9991
TAYLOR
S TESTING AMERICA ATL SC
REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 09APR21
ACTWGT: 45.25 LB
CAD: 859116ZCAF3409

BILL RECIPIENT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA.15238
(412) 963-7068

REF: ACC - PLT WANSLEY



SATURDAY 12:00P
PRIORITY OVERNIGHT

1 of 2
TRK# 1516 9329 3467
0201
MASTER

XO AGCA
Uncorrected temp 3.4 °C
Thermometer ID 15238 PIT

CF 0 Initials 8

PT-WI-SR-001 effective 11/8/18



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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-119811-1

Login Number: 119811

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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

APPENDIX B2

Data Validation Reports

Data Validation Reports - February 2021

Memorandum

Date: March 29, 2021
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
TestAmerica Laboratory Job IDs 180-116807-1 and 180-116807-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nineteen aqueous samples, two field duplicates, two equipment blanks and two field blanks, collected 2-4 February 2021, as part of the Plant Wansley AP on-site sampling event.

The samples were analyzed at Eurofins TestAmerica Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Fluoride by USEPA Method 300.0

The samples were analyzed at Eurofins TestAmerica St. Louis, Missouri, for the following analytical tests:

- Radium-226 by USEPA Method 9315
- Radium-228 by USEPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA 540-R-2017-001); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

| Laboratory ID | Client ID |
|---------------|-----------|
| 180-116807-1 | Dup-1 |
| 180-116807-2 | EB-1 |
| 180-116807-3 | WGWA-1 |
| 180-116807-4 | WGWA-2 |
| 180-116807-5 | WGWA-18 |
| 180-116807-6 | WGWA-3 |
| 180-116807-7 | WGWA-4 |
| 180-116807-8 | WGWA-7 |
| 180-116916-1 | Dup-2 |
| 180-116916-2 | FB-2 |
| 180-116916-3 | WGWA-6 |
| 180-116916-4 | WGWA-5 |
| 180-116916-5 | WGWC-19 |

| Laboratory ID | Client ID |
|---------------|-----------|
| 180-116916-6 | WGWC-11 |
| 180-116916-7 | WGWC-12 |
| 180-116916-8 | WGWC-8 |
| 180-116916-9 | WGWC-15 |
| 180-116916-10 | WGWC-16 |
| 180-116916-11 | WGWC-17 |
| 180-116916-12 | FB-1 |
| 180-116916-13 | EB-2 |
| 180-116916-14 | WGWC-9 |
| 180-116916-15 | WGWC-10 |
| 180-116916-16 | WGWC-13 |
| 180-116916-17 | WGWC-14A |

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Collection times were not documented on the chain of custody (COC) for field duplicates, Dup-1 and Dup-2. Dup-1 and Dup-2 were logged in with the collection time of 00:00.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The container labels for the two plastic liters for sample WGWC-12 did not match the collection date listed on the COC. The label listed a sample collection date of 2/2/21, while the COC lists 2/3/21. The container label for one out of two of the plastic liters for sample WGWC-17 did not match the collection date listed on the COC. The label listed a sample collection date of 3/2/21, while the COC lists 2/4/21. The samples were logged in per the COC.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 346412 and 346791). Metals were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported using samples WGWA-1 and WGWA-6. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1 and EB-2. Metals were not detected in the equipment blanks above the MDLs.

1.7 Field Blank

Two field blanks were collected with the sample set, FB-1 and FB-2. Metals were not detected in the field blanks above the MDLs.

1.8 Field Duplicate

Two field duplicate samples were collected with the sample set, Dup-1 and Dup-2. Acceptable precision [RPD \leq 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, WGWA-3 and WGWC-15, respectively.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated nondetect results were reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 345897, 346076 and 346077). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported using sample Dup-1. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1 and EB-2. Mercury was not detected in the equipment blanks above the MDL.

2.7 Field Blank

Two field blanks were collected with the sample set, FB-1 and FB-2. Mercury was not detected in the field blanks above the MDL.

2.8 Field Duplicate

Two field duplicate samples were collected with the sample set, Dup-1 and Dup-2. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWA-3 and WGWC-15, respectively.

2.9 Sensitivity

The samples were reported to the MDL. No elevated nondetect results were reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 FLUORIDE

The samples were analyzed for fluoride by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ⊗ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The fluoride data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

3.2 Holding Times

The holding time for the fluoride analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 345752, 346231 and 346367). Fluoride was not detected in the method blanks above the MDL.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three sample set specific MS/MSD pairs were reported using samples WGWA-7, WGWC-14A and WGWC-13. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1 and EB-2. Fluoride was not detected in the equipment blanks above the MDL.

3.7 Field Blank

Two field blanks were collected with the sample set, FB-1 and FB-2. Fluoride was not detected in FB-2.

Fluoride was detected in FB-1 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated fluoride concentrations in the associated samples were U qualified as not detected at the RL.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier* | Reason Code** |
|----------|----------|--------------------------|-----------------|--------------------------|-----------------------|---------------|
| Dup-1 | Fluoride | 0.035 | J | 0.20 | U | 3 |
| WGWA-1 | Fluoride | 0.028 | J | 0.20 | U | 3 |
| WGWA-2 | Fluoride | 0.065 | J | 0.20 | U | 3 |
| WGWA-18 | Fluoride | 0.071 | J | 0.20 | U | 3 |
| WGWA-3 | Fluoride | 0.035 | J | 0.20 | U | 3 |
| WGWA-4 | Fluoride | 0.15 | J | 0.20 | U | 3 |
| WGWC-16 | Fluoride | 0.052 | J | 0.20 | U | 3 |
| WGWC-17 | Fluoride | 0.064 | J | 0.20 | U | 3 |
| WGWC-10 | Fluoride | 0.12 | J | 0.20 | U | 3 |
| WGWC-13 | Fluoride | 0.16 | J | 0.20 | U | 3 |
| WGWC-14A | Fluoride | 0.033 | J | 0.20 | U | 3 |
| WGWA-6 | Fluoride | 0.088 | J | 0.20 | U | 3 |
| WGWC-11 | Fluoride | 0.027 | J | 0.20 | U | 3 |
| WGWC-12 | Fluoride | 0.082 | J | 0.20 | U | 3 |
| WGWC-8 | Fluoride | 0.15 | J | 0.20 | U | 3 |

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

3.8 Field Duplicate

Two field duplicate samples were collected with the sample set, Dup-1 and Dup-2. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWA-3 and WGWC-15, respectively.

3.9 Sensitivity

The samples were reported to the MDL. No elevated nondetect results were reported.

3.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by USEPA method 9315, radium-228 by USEPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ⊗ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ⊗ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

4.1 Overall Assessment

4.1.1 Completeness

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.1.2 Analysis Anomaly

The laboratory noted that during the in the growth process for the radium-226 and radium-228 analyses samples WGWA-5, WGWC-11, WGWC-15, WGWC-16, WGWC-10 and WGWC-13 were filtered. No qualifications were applied to the data, based on professional and technical judgment,

The radium-228 result for sample WGWA-5 was more negative than the total propagated uncertainty (TPU) (2σ). Therefore, the radium-228 and combined radium 226 + 228 results for sample WGWA-5 were UJ qualified as estimated less than the minimum detectable concentrations (MDCs).

| Sample | Analyte | Laboratory Result (pCi/L) | Laboratory Flag | Validation Result (pCi/L) | Validation Qualifier | Reason Code |
|--------|---------------------------|---------------------------|-----------------|---------------------------|----------------------|-------------|
| WGWA-5 | Radium-228 | -0.358 | U | -0.358 | UJ | 13 |
| WGWA-5 | Combined Radium 226 + 228 | -0.314 | U | -0.314 | UJ | 13 |

pCi/L-picocuries per liter

U-not detected at or above the MDC

4.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported for the radium-226 data (batches 498078 and 498288). Three method blanks were reported for the radium-228 data (batches 498080, 498366 and 499478). Radium-226 and radium-228 were not detected in the method blanks above the MDCs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the data.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and one LCS/LCS duplicate (LCSD) pair were reported for radium-226. One LCS and two LCS/LCSD pairs were reported for radium-228. The recovery and

replicate error ratio (RER) [2 sigma (2σ)] results were within the laboratory specified acceptance criteria, with the following exceptions.

The laboratory noted the LCS recoveries were assessed to regulatory specified acceptance criteria of 75-125% instead of the laboratory statistical limits of 61-138%. Since the samples were not governed by the regulatory limits and based on professional and technical judgment, the sample validation was based on the laboratory statistical limits.

The recovery of radium-228 in the LCS in batch 498080 was high and outside of the laboratory specified acceptance criteria. The LCS recovery and RER of radium-228 in the LCS/LCSD pair in batch 498366 were high and outside of the laboratory specified acceptance criteria. Therefore, the radium concentrations in the associated samples greater than the MDCs were J+ qualified as estimated with high biases, in addition, the combined radium 226 + 228 concentrations in the associated samples greater than the MDCs were J+ qualified as estimated with high biases.

The recovery of radium-228 in the LCS in batch 499478 was high and outside of the regulatory specified acceptance criteria. Since the recovery of radium-228 in the LCS in batch 499478 was within the laboratory specified acceptance criteria, no qualifications were applied to the data.

| Sample | Analyte | Laboratory Result (pCi/L) | Laboratory Flag | Validation Result (pCi/L) | Validation Qualifier | Reason Code |
|----------|---------------------------|---------------------------|-----------------|---------------------------|----------------------|-------------|
| WGWA-4 | Combined Radium 226 + 228 | 1.05 | NA | 1.05 | J+ | 5 |
| Dup-2 | Radium-228 | 0.771 | * | 0.771 | J+ | 5 |
| Dup-2 | Combined Radium 226 + 228 | 0.852 | NA | 0.852 | J+ | 5 |
| WGWC-19 | Radium-228 | 0.639 | * | 0.639 | J+ | 5 |
| WGWC-19 | Combined Radium 226 + 228 | 0.684 | NA | 0.684 | J+ | 5 |
| WGWC-11 | Radium-228 | 0.620 | * | 0.620 | J+ | 5 |
| WGWC-11 | Combined Radium 226 + 228 | 0.718 | NA | 0.718 | J+ | 5 |
| WGWC-14A | Combined Radium 226 + 228 | 0.564 | NA | 0.564 | J+ | 5 |

pCi/L-picocuries per liter

NA-not applicable

*-laboratory flag indicating LCS and/or LCSD was outside of the acceptance limits

4.6 Laboratory Duplicate

Laboratory duplicates were not reported.

4.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

4.8 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1 and EB-2. Radium-226 and Radium-228 were not detected in the equipment blanks above the MDCs.

4.9 Field Blank

Two field blanks were collected with the sample set, FB-1 and FB-2. Radium-226 and Radium-228 were not detected in the field blanks above the MDCs.

4.10 Field Duplicate

Two field duplicate samples were collected with the sample set, Dup-1 and Dup-2. Acceptable precision ($RER (2\sigma) < 3$) was demonstrated between the field duplicate and the original sample, WGWA-3 and WGWC-15, respectively.

4.11 Sensitivity

The samples were reported to the MDCs. Samples WGWA-1, WGWA-3, WGWA-4, WGWA-7, WGWA-5, WGWC-17, FB-2, WGWA-6, WGWA-5, WGWC-8, WGWC-15 and WGWC-16 were analyzed at reduced sample volume for the radium-228 analyses. Samples WGWA-1, WGWA-3, WGWA-4, WGWA-7, WGWA-5 and WGWC-17 were analyzed at reduced sample volume for the radium-226 analyses. Therefore, elevated nondetect results were reported for these samples.

4.12 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

**ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team**

| Valid Value | Description |
|--------------------|---|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside of limits |
| 5 | LCS or RPD recovery outside of limits (LCS/LCSD) |
| 6 | Surrogate recovery outside of limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Data Validation Reports – March 2021

Memorandum

Date: May 26, 2021
To: Adria Reimer
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
TestAmerica Laboratory Job ID 180-118348-1 Revision 1**

SITE: Plant Wansley Ash Pond PZ

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nineteen aqueous samples, two field duplicates, two equipment blanks and two field blanks, collected 10-12 March 2021, as part of the Plant Wansley Ash Pond on-site sampling event. The samples were analyzed at Eurofins TestAmerica Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0 R2.1
- Acid Soluble and Insoluble Sulfide by US EPA Methods 9030B/9034
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Alkalinity by SM 2320 B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives, with the following exceptions.

The non-detect total alkalinity results in EB-1, EB-2, FB-1 and FB-2 were R qualified as rejected due to holding time exceedances.

The qualified data that were not rejected should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011) and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory report:

| Laboratory ID | Client ID |
|---------------|-----------|
| 180-118348-1 | WGWA-1 |
| 180-118348-2 | WGWA-2 |
| 180-118348-3 | WGWA-3 |
| 180-118348-4 | WGWA-4 |
| 180-118348-5 | WGWA-5 |
| 180-118348-6 | WGWA-6 |
| 180-118348-7 | WGWA-7 |
| 180-118348-8 | WGWA-18 |
| 180-118348-9 | WGWC-8 |
| 180-118348-10 | Dup-1 |
| 180-118348-11 | WGWC-16 |
| 180-118348-12 | WGWC-17 |
| 180-118348-13 | EB-1 |

| Laboratory ID | Client ID |
|---------------|-----------|
| 180-118348-14 | EB-2 |
| 180-118348-15 | FB-1 |
| 180-118398-1 | WGWC-15 |
| 180-118398-2 | WGWC-10 |
| 180-118398-3 | WGWC-11 |
| 180-118398-4 | WGWC-13 |
| 180-118398-5 | WGWC-14A |
| 180-118398-6 | WGWC-9 |
| 180-118398-7 | WGWC-19 |
| 180-118398-8 | Dup-2 |
| 180-118398-9 | FB-2 |
| 180-118398-10 | WGWC-12 |

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Collection times were not documented on the chain of custody (COC) for the field duplicates. The field duplicates were logged by the laboratory with the collection time of 00:00.

The laboratory report was revised on 21 April 2021 to correctly report the thallium result from the reanalysis of WGWC-10. The revised report was identified as 180-118348-1 Revision 1.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time

- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The narrative indicated the recovery for selenium in the continuing calibration verification (CCV) in batch 350467 was outside the method specified acceptance criteria with a high bias. Since selenium was not detected in the associated samples, no qualifications were applied to the data.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 350102, 350579 and 352257). Metals were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

One sample set specific MS/MSD pair was reported using sample WGWA-1. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1 and EB-2. Metals were not detected in the equipment blanks above the MDLs.

1.7 Field Blank

Two field blanks were collected with the sample set, FB-1 and FB-2. Metals were not detected in the field blanks above the MDLs.

1.8 Field Duplicate

Two field duplicate samples were collected with the sample set, DUP-1 and DUP-2. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWA-2 and WGWC-19, respectively, with the following exceptions.

The RPD result for iron was greater than 20% in field duplicate pair DUP-2/WGWC-19. Therefore, the iron concentrations in DUP-2 and WGWC-19 were J qualified as estimated.

The RPD results for barium, calcium, magnesium, potassium and sodium were greater than 20% in field duplicate pair DUP-1/WGWA-2. Therefore, the barium, calcium, magnesium, potassium and sodium concentrations in DUP-1 and WGWA-2 were J qualified as estimated.

Arsenic, beryllium, boron, cobalt, lead and thallium were detected at concentrations greater than the RLs in parent sample WGWA-2 and not detected in field duplicate DUP-1, resulting in noncalculable RPDs between the results. Since the differences between the results were less than the RLs, no qualifications were applied to the data.

Lithium was detected at a concentration greater than the RL in parent sample WGWA-2 and was detected in field duplicate DUP-1. Therefore, the lithium concentration in WGWA-2 was J qualified and the non-detect result in DUP-1 was UJ qualified as estimated less than the MDL.

Manganese was detected at a concentration greater than the RL in parent sample WGWA-2 and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate DUP-1 and the difference between the concentrations was greater than the RL. Therefore, the manganese concentrations in WGWA-2 and DUP-1 were J qualified as estimated.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | RPD | Validation Result (mg/L) | Validation Qualifier* | Reason Code** |
|---------|-----------|--------------------------|-----------------|-----|--------------------------|-----------------------|---------------|
| Dup-1 | Barium | 0.013 | NA | 59 | 0.013 | J | 7 |
| WGWA-2 | Barium | 0.024 | NA | | 0.024 | J | 7 |
| Dup-1 | Calcium | 1.8 | NA | 144 | 1.8 | J | 7 |
| WGWA-2 | Calcium | 11 | NA | | 11 | J | 7 |
| Dup-1 | Lithium | 0.0050 | U | NC | 0.0050 | UJ | 7 |
| WGWA-2 | Lithium | 0.0075 | NA | | 0.0075 | J | 7 |
| Dup-1 | Magnesium | 1.1 | NA | 117 | 1.1 | J | 7 |
| WGWA-2 | Magnesium | 4.2 | NA | | 4.2 | J | 7 |
| Dup-1 | Manganese | 0.0012 | J | NC | 0.0012 | J | 7 |
| WGWA-2 | Manganese | 0.032 | NA | | 0.032 | J | 7 |
| Dup-1 | Potassium | 1.2 | NA | 63 | 1.2 | J | 7 |
| WGWA-2 | Potassium | 2.3 | NA | | 2.3 | J | 7 |
| Dup-1 | Sodium | 2.7 | NA | 109 | 2.7 | J | 7 |
| WGWA-2 | Sodium | 9.2 | NA | | 9.2 | J | 7 |
| Dup-2 | Iron | 0.053 | NA | 60 | 0.053 | J | 7 |
| WGWC-19 | Iron | 0.098 | NA | | 0.098 | J | 7 |

mg/L-milligrams per liter

NA-not applicable

NC-not calculable

J-estimated concentration greater than the MDL and less than the RL

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 WET CHEMISTRY

The samples were analyzed for anions by USEPA method 300.0, sulfide by US EPA methods 9030B/9034, TDS by SM 2540C and total alkalinity by SM 2320 B. Total alkalinity results were reported as total alkalinity as CaCO₃ to pH 4.5 and bicarbonate alkalinity as CaCO₃.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ⊗ Overall Assessment
- ⊗ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives, with the following exceptions. The non-detect total alkalinity results in EB-1, EB-2, FB-1 and FB-2 were R qualified as rejected due to holding time exceedances. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 95.4%.

2.2 Holding Times

The holding times for a water sample are listed below. The holding times were met for the sample analyses, with the following exceptions.

| Analysis | Holding Time |
|------------------|-------------------------------------|
| Anions | 28 days from collection to analysis |
| Sulfide | 7 days from collection to analysis |
| TDS | 7 days from collection to analysis |
| Total Alkalinity | 14 days from collection to analysis |

Samples Dup-1 and WGWA-18 were analyzed outside of the holding time requirement for TDS. Therefore, the TDS concentrations in Dup-1 and WGWA-18 were J qualified as estimated.

Samples WGWA-1, Dup-1, WGWA-2, WGWC-16, WGWC-17, WGWA-3, EB-1, WGWA-4, WGWA-5, EB-2, WGWA-6, WGWA-7, FB-1, WGWA-18, WGWC-8, WGWC-15, WGWC-12, WGWC-10, WGWC-11, WGWC-13, WGWC-14A, WGWC-9, WGWC-19, Dup-2 and FB-2 were analyzed outside of the holding time requirement for total alkalinity. Therefore, the total alkalinity as CaCO₃ to pH 4.5 and bicarbonate alkalinity as CaCO₃ concentrations in the samples were J qualified as estimated, and the non-detect total alkalinity as CaCO₃ to pH 4.5 and bicarbonate alkalinity as CaCO₃ results in the samples were R qualified as rejected.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|---------|---|--------------------------|-----------------|--------------------------|----------------------|-------------|
| Dup-1 | Alkalinity Total as CaCO ₃ | 11 | H | 11 | J | 2 |
| Dup-1 | Dissolved Solids | 29 | H | 29 | J | 2 |
| Dup-1 | Bicarbonate Alkalinity as CaCO ₃ | 11 | H | 11 | J | 2 |
| Dup-2 | Alkalinity Total as CaCO ₃ | 90 | H | 90 | J | 2 |
| Dup-2 | Bicarbonate Alkalinity as CaCO ₃ | 90 | H | 90 | J | 2 |
| EB-1 | Alkalinity Total as CaCO ₃ | 5.0 | U, H | 5.0 | R | 2 |
| EB-1 | Bicarbonate Alkalinity as CaCO ₃ | 5.0 | U, H | 5.0 | R | 2 |
| EB-2 | Alkalinity Total as CaCO ₃ | 5.0 | U, H | 5.0 | R | 2 |
| EB-2 | Bicarbonate Alkalinity as CaCO ₃ | 5.0 | U, H | 5.0 | R | 2 |
| FB-1 | Alkalinity Total as CaCO ₃ | 5.0 | U, H | 5.0 | R | 2 |
| FB-1 | Bicarbonate Alkalinity as CaCO ₃ | 5.0 | U, H | 5.0 | R | 2 |
| FB-2 | Alkalinity Total as CaCO ₃ | 5.0 | U, H | 5.0 | R | 2 |
| FB-2 | Bicarbonate Alkalinity as CaCO ₃ | 5.0 | U, H | 5.0 | R | 2 |
| WGWA-1 | Alkalinity Total as CaCO ₃ | 7.8 | H | 7.8 | J | 2 |
| WGWA-1 | Bicarbonate Alkalinity as CaCO ₃ | 7.8 | H | 7.8 | J | 2 |
| WGWA-18 | Alkalinity Total as CaCO ₃ | 31 | H | 31 | J | 2 |
| WGWA-18 | Dissolved Solids | 72 | H | 72 | J | 2 |
| WGWA-18 | Bicarbonate Alkalinity as CaCO ₃ | 31 | H | 31 | J | 2 |
| WGWA-2 | Alkalinity Total as CaCO ₃ | 61 | H | 61 | J | 2 |
| WGWA-2 | Bicarbonate Alkalinity as CaCO ₃ | 61 | H | 61 | J | 2 |
| WGWA-3 | Alkalinity Total as CaCO ₃ | 11 | H | 11 | J | 2 |

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| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|----------|---|--------------------------|-----------------|--------------------------|----------------------|-------------|
| WGWA-3 | Bicarbonate Alkalinity as CaCO ₃ | 11 | H | 11 | J | 2 |
| WGWA-4 | Alkalinity Total as CaCO ₃ | 61 | H | 61 | J | 2 |
| WGWA-4 | Bicarbonate Alkalinity as CaCO ₃ | 61 | H | 61 | J | 2 |
| WGWA-5 | Alkalinity Total as CaCO ₃ | 7.6 | H | 7.6 | J | 2 |
| WGWA-5 | Bicarbonate Alkalinity as CaCO ₃ | 7.6 | H | 7.6 | J | 2 |
| WGWA-6 | Alkalinity Total as CaCO ₃ | 86 | H | 86 | J | 2 |
| WGWA-6 | Bicarbonate Alkalinity as CaCO ₃ | 86 | H | 86 | J | 2 |
| WGWA-7 | Alkalinity Total as CaCO ₃ | 7.5 | H | 7.5 | J | 2 |
| WGWA-7 | Bicarbonate Alkalinity as CaCO ₃ | 7.5 | H | 7.5 | J | 2 |
| WGWC-10 | Alkalinity Total as CaCO ₃ | 32 | H | 32 | J | 2 |
| WGWC-10 | Bicarbonate Alkalinity as CaCO ₃ | 32 | H | 32 | J | 2 |
| WGWC-11 | Alkalinity Total as CaCO ₃ | 9.7 | H | 9.7 | J | 2 |
| WGWC-11 | Bicarbonate Alkalinity as CaCO ₃ | 9.7 | H | 9.7 | J | 2 |
| WGWC-12 | Alkalinity Total as CaCO ₃ | 46 | H | 46 | J | 2 |
| WGWC-12 | Bicarbonate Alkalinity as CaCO ₃ | 46 | H | 46 | J | 2 |
| WGWC-13 | Alkalinity Total as CaCO ₃ | 33 | H | 33 | J | 2 |
| WGWC-13 | Bicarbonate Alkalinity as CaCO ₃ | 33 | H | 33 | J | 2 |
| WGWC-14A | Alkalinity Total as CaCO ₃ | 32 | H | 32 | J | 2 |
| WGWC-14A | Bicarbonate Alkalinity as CaCO ₃ | 32 | H | 32 | J | 2 |
| WGWC-15 | Alkalinity Total as CaCO ₃ | 99 | H | 99 | J | 2 |
| WGWC-15 | Bicarbonate Alkalinity as CaCO ₃ | 99 | H | 99 | J | 2 |
| WGWC-16 | Alkalinity Total as CaCO ₃ | 8.3 | H | 8.3 | J | 2 |
| WGWC-16 | Bicarbonate Alkalinity as CaCO ₃ | 8.3 | H | 8.3 | J | 2 |
| WGWC-17 | Alkalinity Total as CaCO ₃ | 44 | H | 44 | J | 2 |
| WGWC-17 | Bicarbonate Alkalinity as CaCO ₃ | 44 | H | 44 | J | 2 |
| WGWC-19 | Alkalinity Total as CaCO ₃ | 88 | H | 88 | J | 2 |
| WGWC-19 | Bicarbonate Alkalinity as CaCO ₃ | 88 | H | 88 | J | 2 |
| WGWC-8 | Alkalinity Total as CaCO ₃ | 6.8 | H | 6.8 | J | 2 |
| WGWC-8 | Bicarbonate Alkalinity as CaCO ₃ | 6.8 | H | 6.8 | J | 2 |

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|--------|---|--------------------------|-----------------|--------------------------|----------------------|-------------|
| WGWC-9 | Alkalinity Total as CaCO ₃ | 38 | H | 38 | J | 2 |
| WGWC-9 | Bicarbonate Alkalinity as CaCO ₃ | 38 | H | 38 | J | 2 |

mg/L-milligrams per liter

H-laboratory flag indicating the sample was prepared or analyzed beyond the specific holding time

U-not detected at a concentration greater than or equal to the MDL

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for anions (two for batch 350116 and one for batch 350369). Five method blanks were reported for TDS (batches 349759, 349921, 349926, 350089 and 350091). Five method blanks were reported for total alkalinity (three for batch 350921 and one each for batches 350993 and 351516). Three method blanks were reported for sulfide (batches 349361, 349362 and 349716). The wet chemistry parameters were not detected in the method blanks above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

Three sample set specific MS/MSD pairs were reported for the anions using samples WGWA-1, Dup-1 and WGWC-15. The recovery and RPD results were within the laboratory specified acceptance criteria.

Two sample set specific MS/MSD pairs were reported for sulfide using samples WGWA-1 and FB-2. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS and/or low level LCS (LLCS) were reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported for TDS using samples WGWC-14A and WGWA-18. The RPD results were within the laboratory specified acceptance criteria.

Three sample set specific laboratory duplicates were reported for total alkalinity using samples WGWA-18, EB-1 and FB-1. The RPD results were within the laboratory specified acceptance criteria.

2.7 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1 and EB-2. The wet chemistry parameters were not detected in the equipment blanks above the MDLs.

2.8 Field Blank

Two field blanks were collected with the sample set, FB-1 and FB-2. The wet chemistry parameters were not detected in the field blanks above the MDLs.

2.9 Field Duplicate

Two field duplicate samples were collected with the sample set, DUP-1 and DUP-2. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWA-2 and WGWC-19, respectively, with the following exceptions.

The RPD results for chloride, TDS, bicarbonate alkalinity as $CaCO_3$ and total alkalinity as $CaCO_3$ were greater than 20% in field duplicate pair DUP-1/WGWA-2. Therefore, the chloride, TDS, bicarbonate alkalinity as $CaCO_3$ and total alkalinity as $CaCO_3$ in DUP-1 and WGWA-2 were J qualified as estimated.

Fluoride was detected at a concentration greater than the RL in parent sample WGWA-2 and not detected in field duplicate DUP-1, resulting in a noncalculable RPD result. Since the difference between the results were less than the RL, no qualifications were applied to the data.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | RPD | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|--------|------------------------------------|--------------------------|-----------------|-----|--------------------------|----------------------|-------------|
| Dup-1 | Bicarbonate alkalinity as $CaCO_3$ | 11 | H | 139 | 11 | J | 7 |
| WGWA-2 | Bicarbonate alkalinity as $CaCO_3$ | 61 | H | | 61 | J | 7 |
| Dup-1 | Alkalinity Total as $CaCO_3$ | 11 | H | 139 | 11 | J | 7 |
| WGWA-2 | Alkalinity Total as $CaCO_3$ | 61 | H | | 61 | J | 7 |
| Dup-1 | Chloride | 1.7 | NA | 42 | 1.7 | J | 7 |
| WGWA-2 | Chloride | 2.6 | NA | | 2.6 | J | 7 |
| Dup-1 | Dissolved Solids | 29 | H | 110 | 29 | J | 7 |
| WGWA-2 | Dissolved Solids | 100 | NA | | 100 | J | 7 |

mg/L-milligrams per liter

H-laboratory flag indicating the sample was prepared or analyzed beyond the specified holding time

NA-not applicable

2.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

2.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

| Valid Value | Description |
|--------------------|--|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside limits |
| 5 | LCS or RPD recovery outside limits (LCS/LCSD) |
| 6 | Surrogate recovery outside limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: May 28, 2021
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
TestAmerica Laboratory Job ID 180-118348-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nineteen aqueous samples, two field duplicates, two equipment blanks and two field blanks, collected 10-12 March 2021, as part of the Plant Wansley AP on-site sampling event.

The samples were analyzed at Eurofins TestAmerica St. Louis, Missouri, for the following analytical tests:

- Radium-226 by USEPA Method 9315
- Radium-228 by USEPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

| Laboratory ID | Client ID |
|---------------|-----------|
| 180-118348-1 | WGWA-1 |
| 180-118348-2 | WGWA-2 |
| 180-118348-3 | WGWA-3 |
| 180-118348-4 | WGWA-4 |
| 180-118348-5 | WGWA-5 |
| 180-118348-6 | WGWA-6 |
| 180-118348-7 | WGWA-7 |
| 180-118348-8 | WGWA-18 |
| 180-118348-9 | WGWC-8 |
| 180-118348-10 | Dup-1 |
| 180-118348-11 | WGWC-16 |
| 180-118348-12 | WGWC-17 |
| 180-118348-13 | EB-1 |

| Laboratory ID | Client ID |
|---------------|-----------|
| 180-118348-14 | EB-2 |
| 180-118348-15 | FB-1 |
| 180-118398-1 | WGWC-15 |
| 180-118398-2 | WGWC-10 |
| 180-118398-3 | WGWC-11 |
| 180-118398-4 | WGWC-13 |
| 180-118398-5 | WGWC-14A |
| 180-118398-6 | WGWC-9 |
| 180-118398-7 | WGWC-19 |
| 180-118398-8 | Dup-2 |
| 180-118398-9 | FB-2 |
| 180-118398-10 | WGWC-12 |

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Collection times were not documented on the chain of custody (COC) for the field duplicates. The field duplicates were logged by the laboratory with the collection time of 00:00.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by USEPA method 9315, radium-228 by USEPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank

- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported for the radium-226 data (batches 502473 and 502505). Two method blanks were reported for the radium-228 data (batches 502475 and 502508). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and one LCS/LCS duplicate (LCSD) pair were reported for radium-226. One LCS and one LCS/LCSD pair were reported for radium-228. The recovery and replicate error ratio (RER) [2 sigma (2σ)] results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Two laboratory duplicates were reported using sample WGWC-17, one each for radium-226 and radium-228. The RER results were within the laboratory specified acceptance criteria.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1 and EB-2. Radium-226 and Radium-228 were not detected in the equipment blanks above the MDCs.

1.9 Field Blank

Two field blanks were collected with the sample set, FB-1 and FB-2. Radium-226 and Radium-228 were not detected in the field blanks above the MDCs.

1.10 Field Duplicate

Two field duplicate samples were collected with the sample set, DUP-1 and DUP-2. Acceptable precision ($RER (2\sigma) < 3$) was demonstrated between the field duplicate and the original sample, WGWA-2 and WGWC-19, respectively.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated nondetect results were reported.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

**ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

**ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team**

| Valid Value | Description |
|--------------------|---|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside of limits |
| 5 | LCS or RPD recovery outside of limits (LCS/LCSD) |
| 6 | Surrogate recovery outside of limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

NOTE:
PZ-22 has been reclassified as WGWC-20
PZ-23S has been reclassified as WGWC-21
PZ-24 has been reclassified as WGWC-22
PZ-27S has been reclassified as WGWC-25

Date: May 26, 2021
To: Adria Reimer
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
TestAmerica Laboratory Job ID 180-118172-1 Revision 2**

SITE: Plant Wansley Ash Pond PZ

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five aqueous samples, one field duplicate, one equipment blank and one field blank, collected 8-9 March 2021, as part of the Plant Wansley Ash Pond on-site sampling event. The samples were analyzed at Eurofins TestAmerica Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0 R2.1
- Acid Soluble and Insoluble Sulfide by US EPA Methods 9030B/9034
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Alkalinity by SM 2320 B

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011) and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory report:

| Laboratory ID | Client ID |
|---------------|-----------|
| 180-118172-1 | PZ-22 |
| 180-118172-2 | PZ-23S |
| 180-118172-3 | PZ-24 |
| 180-118172-4 | PZ-27S |

| Laboratory ID | Client ID |
|---------------|-----------|
| 180-118172-5 | PZ-27D |
| 180-118172-6 | FB-1 |
| 180-118172-7 | Dup-1 |
| 180-118172-8 | EB-1 |

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

A collection time was not documented on the chain of custody (COC) for field duplicate. The field duplicate was logged by the laboratory with the collection time of 00:00.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The laboratory report was revised twice. The first revision was provided on 19 March 2021 to change the reporting units of metals from µg/L to mg/L. The second revision was provided on 4 May 2021 to report lithium data for samples PZ-22, PZ-23S, PZ-24 and PZ-27S per the client's request. The revised report was identified as 180-118172-1 Revision 2.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ⊗ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity

✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 349140). Metals were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported using sample PZ-22. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank, EB-1, was collected with the sample set. Metals were not detected in the equipment blank above the MDLs, with the following exception.

Boron was detected in EB-1 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since the boron concentration in EB-1 was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

1.7 Field Blank

One field blank, FB-1, was collected with the sample set. Metals were not detected in the field blank above the MDLs, with the following exception.

Boron was detected in FB-1 at an estimated concentration (0.075 mg/L) greater than the MDL and less than the RL. Therefore, the estimated boron concentration in EB-1 was U qualified as not detected at the RL, and the boron concentrations in the associated samples were J+ qualified as estimated with high biases, based on professional and technical judgment.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier* | Reason Code** |
|--------|---------|--------------------------|-----------------|--------------------------|-----------------------|---------------|
| EB-1 | Boron | 0.043 | J | 0.080 | U | 3 |
| PZ-23S | Boron | 0.19 | NA | 0.19 | J+ | 3 |
| PZ-24 | Boron | 0.33 | NA | 0.33 | J+ | 3 |
| PZ-27S | Boron | 0.48 | NA | 0.48 | J+ | 3 |
| PZ-27D | Boron | 0.23 | NA | 0.23 | J+ | 3 |
| Dup-1 | Boron | 0.49 | NA | 0.49 | J+ | 3 |

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

NA-not applicable

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-1. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, PZ-27S, with the following exception.

The RPD for iron was greater than 20% in the field duplicate pair. Therefore, the iron concentrations in DUP-1 and PZ-27S were J qualified as estimated.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | RPD | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|--------|---------|--------------------------|-----------------|-----|--------------------------|----------------------|-------------|
| PZ-27S | Iron | 0.35 | NA | 33 | 0.35 | J | 7 |
| Dup-1 | Iron | 0.25 | NA | | 0.25 | J | 7 |

mg/L-milligrams per liter

NA-not applicable

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 WET CHEMISTRY

The samples were analyzed for anions by USEPA method 300.0, sulfide by US EPA methods 9030B/9034, TDS by SM 2540C and total alkalinity by SM 2320 B. Total alkalinity results were reported as total alkalinity as CaCO₃ to pH 4.5 and bicarbonate alkalinity as CaCO₃.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

2.2 Holding Times

The holding times for a water sample are listed below. The holding times were met for the sample analyses.

| Analysis | Holding Time |
|------------------|-------------------------------------|
| Anions | 28 days from collection to analysis |
| Sulfide | 7 days from collection to analysis |
| TDS | 7 days from collection to analysis |
| Total Alkalinity | 14 days from collection to analysis |

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the anions (batch 349204). Three method blanks were reported for TDS (batches 349481, 349487 and 349489). One method blank was reported for total alkalinity (batch 349535). One method blank was reported for sulfide (batch 349117). The wet chemistry parameters were not detected in the method blanks above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported for the anions using sample PZ-24. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of fluoride and sulfate in the MSD using sample PZ-24 were low and outside of the laboratory specified acceptance criteria. Therefore, the fluoride and sulfate concentrations in sample PZ-24 were J- qualified as estimated with low biases.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|--------|----------|--------------------------|-----------------|--------------------------|----------------------|-------------|
| PZ-24 | Fluoride | 1.1 | NA | 1.1 | J- | 4 |
| PZ-24 | Sulfate | 80 | NA | 80 | J- | 4 |

mg/L-milligrams per liter

NA-not applicable

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS using sample PZ-23S. The RPD result was within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for total alkalinity using sample PZ-23S. The RPD result was within the laboratory specified acceptance criteria

2.7 Equipment Blank

One equipment blank, EB-1, was collected with the sample set. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

2.8 Field Blank

One field blank, FB-1, was collected with the sample set. The wet chemistry parameters were not detected in the field blank above the MDLs.

2.9 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-1. Acceptable precision (RPD $\leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicate and the original sample, PZ-27S, with the following exception.

Fluoride was detected at an estimated concentration greater than the MDL and less than the RL in the field duplicate sample DUP-1 and not detected in the parent sample PZ-27S, resulting in a noncalculable RPD result. Since the difference between the results were less than the RL, no qualifications were applied to the data.

2.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

2.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

| Valid Value | Description |
|--------------------|--|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside limits |
| 5 | LCS or RPD recovery outside limits (LCS/LCSD) |
| 6 | Surrogate recovery outside limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: May 26, 2021
To: Adria Reimer
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
TestAmerica Laboratory Job ID 180-118350-1 Revision 1**

NOTE:
PZ-25S has been reclassified as WGWC-23
PZ-26S has been reclassified as WGWC-24

SITE: Plant Wansley Ash Pond PZ

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six aqueous samples, one field duplicate, one equipment blank and one field blank, collected 9 and 11 March 2021, as part of the Plant Wansley Ash Pond on-site sampling event. The samples were analyzed at Eurofins TestAmerica Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0 R2.1
- Acid Soluble and Insoluble Sulfide by US EPA Methods 9030B/9034
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Alkalinity by SM 2320 B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives, with the following exceptions.

The non-detect TDS results in EB-2 and FB-2 were R qualified as rejected due to holding time exceedances.

The qualified data that were not rejected should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011) and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory report:

| Laboratory ID | Client ID |
|---------------|-----------|
| 180-118350-1 | PZ-23D |
| 180-118350-2 | PZ-25S |
| 180-118350-3 | PZ-26S |
| 180-118350-4 | PZ-26D |
| 180-118350-5 | PZ-28 |

| Laboratory ID | Client ID |
|---------------|-----------|
| 180-118350-6 | EB-2 |
| 180-118350-7 | Dup-2 |
| 180-118350-8 | FB-2 |
| 180-118350-9 | PZ-29D |

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

A collection time was not documented on the chain of custody (COC) for the field duplicate. The field duplicate was logged by the laboratory with the collection time of 00:00.

The laboratory report was revised on 4 May 2021 to report lithium data for samples PZ-25S and PZ-26S per the client's request. The revised report was identified as 180-118350-1 Revision 1.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ⊗ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

The laboratory noted the recovery of boron was high in a continuing calibration verification (CCV) in batch 349781. Since boron was not detected in the associated samples, no qualifications were applied to the data.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 349566). Metals were not detected in the method blank above the method detection limits (MDLs), with the following exception.

Manganese was detected in the method blank in batch 349566 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Therefore, the estimated manganese concentrations in the associated samples were U qualified as not detected at the RL.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier* | Reason Code** |
|--------|-----------|--------------------------|-----------------|--------------------------|-----------------------|---------------|
| EB-2 | Manganese | 0.0014 | J B | 0.0050 | U | 3 |
| FB-2 | Manganese | 0.00094 | J B | 0.0050 | U | 3 |

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

B-laboratory flag indicating the compound was found in the blank and sample

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported using sample PZ-23D. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank, EB-2, was collected with the sample set. Metals were not detected in the equipment blank above the MDLs, with the following exception.

Manganese was detected in EB-2 at an estimated concentration greater than the MDL and less than the RL. Since the manganese concentration in EB-2 was U qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

1.7 Field Blank

One field blank, FB-2, was collected with the sample set. Metals were not detected in the field blank above the MDLs, with the following exceptions.

Boron and manganese detected in FB-2 at estimated concentrations greater than the MDLs and less than the RLs. Since the manganese concentration in FB-2 was U qualified due to method blank contamination, no additional qualifications were applied to the manganese data. However, the estimated boron concentrations in PZ-25S and PZ-28 were U qualified as not detected at the RL, and the boron concentrations in PZ-26D and DUP-2 were J+ qualified as estimated with high biases, based on professional and technical judgment.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|--------|---------|--------------------------|-----------------|--------------------------|----------------------|-------------|
| PZ-25S | Boron | 0.073 | J | 0.080 | U | 3 |
| PZ-26D | Boron | 0.22 | NA | 0.22 | J+ | 3 |
| PZ-28 | Boron | 0.044 | J | 0.080 | U | 3 |

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|--------|---------|--------------------------|-----------------|--------------------------|----------------------|-------------|
| DUP-2 | Boron | 0.16 | NA | 0.16 | J+ | 3 |

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

NA-not applicable

1.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-2. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, PZ-26D, with the following exception.

The RPD result for boron was greater than 20% in the field duplicate pair. Therefore, the boron concentrations in DUP-2 and PZ-26D were J qualified as estimated.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | RPD | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|--------|---------|--------------------------|-----------------|-----|--------------------------|----------------------|-------------|
| PZ-26D | Boron | 0.22 | NA | 32 | 0.22 | J | 7 |
| DUP-2 | Boron | 0.16 | NA | | 0.16 | J | 7 |

mg/L-milligrams per liter

NA-not applicable

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 WET CHEMISTRY

The samples were analyzed for anions by USEPA method 300.0, sulfide by US EPA methods 9030B/9034, TDS by SM 2540C and total alkalinity by SM 2320 B. Total alkalinity results were reported as total alkalinity as CaCO₃ to pH 4.5 and bicarbonate alkalinity as CaCO₃.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ⊗ Overall Assessment
- ⊗ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives, with the following exceptions. The non-detect TDS results in EB-2 and FB-2 were R qualified as rejected due to holding time exceedances. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 96.8%.

2.2 Holding Times

The holding times for a water sample are listed below. The holding times were met for the sample analyses, with the following exceptions.

| Analysis | Holding Time |
|------------------|-------------------------------------|
| Anions | 28 days from collection to analysis |
| Sulfide | 7 days from collection to analysis |
| TDS | 7 days from collection to analysis |
| Total Alkalinity | 14 days from collection to analysis |

Samples PZ-23D, PZ-25S, PZ-26S, PZ-26D, PZ-28, EB-2, Dup-2 and FB-2 were analyzed two days outside of the holding time requirement. Therefore, the TDS concentrations in PZ-23D, PZ-25S, PZ-26S, PZ-26D, PZ-28 and Dup-2 were J qualified as estimated, and the non-detect TDS results in EB-2 and FB-2 were R qualified as rejected.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|--------|------------------|--------------------------|-----------------|--------------------------|----------------------|-------------|
| PZ-23D | Dissolved Solids | 300 | NA | 300 | J | 2 |

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|--------|------------------|--------------------------|-----------------|--------------------------|----------------------|-------------|
| PZ-25S | Dissolved Solids | 79 | NA | 79 | J | 2 |
| PZ-26S | Dissolved Solids | 370 | NA | 370 | J | 2 |
| PZ-26D | Dissolved Solids | 180 | NA | 180 | J | 2 |
| PZ-28 | Dissolved Solids | 53 | NA | 53 | J | 2 |
| EB-2 | Dissolved Solids | 10 | U | 10 | R | 2 |
| Dup-2 | Dissolved Solids | 170 | NA | 170 | J | 2 |
| FB-2 | Dissolved Solids | 10 | U | 10 | R | 2 |

mg/L-milligrams per liter

NA-not applicable

U-not detected at a concentration greater than or equal to the MDL

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for anions (batch 349310). One method blank was reported for TDS (batch 349924). One method blank was reported for total alkalinity (batch 349682). One method blank was reported for sulfide (batch 349361). The wet chemistry parameters were not detected in the method blanks above the MDLs, with the following exception.

Sulfate was detected in the method blank in batch 349310 at an estimated concentration greater than the MDL and less than the RL. Since sulfate was detected in the associated samples at concentrations greater than the RL, no qualifications were applied to the data.

2.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported for the anions using sample PZ-26D. The recovery and RPD results were within the laboratory specified acceptance criteria.

One sample set specific MS/MSD pair was reported for sulfide using sample PZ-25S. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

2.6 **Laboratory Duplicate**

One sample set specific laboratory duplicate was reported for TDS using sample Dup-2. The RPD result was within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for total alkalinity using sample PZ-25S. The RPD result was within the laboratory specified acceptance criteria

2.7 **Equipment Blank**

One equipment blank, EB-1, was collected with the sample set. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

2.8 **Field Blank**

One field blank, FB-1, was collected with the sample set. The wet chemistry parameters were not detected in the field blank above the MDLs.

2.9 **Field Duplicate**

One field duplicate sample was collected with the sample set, DUP-1. Acceptable precision (RPD $\leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicate and the original sample, PZ-26D, with the following exception.

Sulfide was detected at a concentration greater than the RL in the field duplicate sample DUP-2 and not detected in the parent sample PZ-26D, resulting in a noncalculable RPD result. Since the difference between the results were less than the RL, no qualifications were applied to the data.

2.10 **Sensitivity**

The samples were reported to the MDLs. Elevated non-detect results were not reported.

2.11 **Electronic Data Deliverable Review**

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

| Valid Value | Description |
|--------------------|--|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside limits |
| 5 | LCS or RPD recovery outside limits (LCS/LCSD) |
| 6 | Surrogate recovery outside limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Data Validation Reports – April 2021

Memorandum

Date: May 26, 2021
To: Adria Reimer
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
TestAmerica Laboratory Job ID 180-119811-1 Revision 1**

NOTE:
PZ-22 has been reclassified as WGWC-20
PZ-23S has been reclassified as WGWC-21
PZ-24 has been reclassified as WGWC-22
PZ-25S has been reclassified as WGWC-23
PZ-26S has been reclassified as WGWC-24
PZ-27S has been reclassified as WGWC-25

SITE: Plant Wansley Ash Pond PZ

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eleven aqueous samples, two field duplicates, two equipment blanks and two field blanks, collected 7-8 April 2021, as part of the Plant Wansley Ash Pond on-site sampling event. The samples were analyzed at Eurofins TestAmerica Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0 R2.1
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011) and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory report:

| Laboratory ID | Client ID |
|---------------|-----------|
| 180-119811-1 | PZ-22 |
| 180-119811-2 | PZ-23S |
| 180-119811-3 | PZ-24 |
| 180-119811-4 | PZ-25S |
| 180-119811-5 | PZ-26S |
| 180-119811-6 | PZ-26D |
| 180-119811-7 | PZ-28 |
| 180-119811-8 | EB-2 |
| 180-119811-9 | FB-2 |

| Laboratory ID | Client ID |
|---------------|-----------|
| 180-119811-10 | Dup-2 |
| 180-119811-11 | Dup-1 |
| 180-119811-12 | FB-1 |
| 180-119811-13 | EB-1 |
| 180-119811-14 | PZ-27D |
| 180-119811-15 | PZ-23D |
| 180-119811-16 | PZ-29D |
| 180-119811-17 | PZ-27S |

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Collection times were not documented on the chain of custody (COC) for the field duplicates. The field duplicates were logged by the laboratory with the collection time of 00:00.

The laboratory report was revised on 4 May 2021 to report lithium data for samples PZ-22, PZ-23S, PZ-24, PZ-25S, PZ-26S and PZ-27S per the client's request. The revised report was identified as 180-119811-1 Revision 1.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 352766). Metals were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported using sample PZ-22. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

Two equipment blanks, EB-1 and EB-2 were collected with the sample set. Metals were not detected in the equipment blanks above the MDLs.

1.7 Field Blank

Two field blanks, FB-1 and FB-2 were collected with the sample set. Metals were not detected in the field blanks above the MDLs.

1.8 Field Duplicate

Two field duplicate samples were collected with the sample set, DUP-1 and DUP-2. Acceptable precision [RPD \leq 20% or the difference between the concentrations $<$ reporting limit (RL)] was demonstrated between the field duplicates and the original samples, PZ-23D and PZ-26S; respectively.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 WET CHEMISTRY

The samples were analyzed for anions by USEPA method 300.0 and TDS by SM 2540C .

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to

the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

2.2 Holding Times

The holding times for a water sample are listed below. The holding times were met for the sample analyses.

| Analysis | Holding Time |
|----------|-------------------------------------|
| Anions | 28 days from collection to analysis |
| TDS | 7 days from collection to analysis |

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported for anions (both from batch 352846). One method blank was reported for TDS (batch 353099). The wet chemistry parameters were not detected in the method blanks above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

Three sample set specific MS/MSD pairs were reported for the anions using samples PZ-24, PZ-25S and PZ-28. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of fluoride in the MS/MSD pair using sample PZ-24 were low and outside of the laboratory specified acceptance criteria. Therefore, the fluoride concentration in PZ-24 was J-qualified as estimated with a low bias.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier* | Reason Code** |
|--------|----------|--------------------------|-----------------|--------------------------|-----------------------|---------------|
| PZ-24 | Fluoride | 1.4 | F1 | 1.4 | J- | 4 |

mg/L-milligrams per liter

F1-laboratory flag indicating the MS and/or MSD recovery exceeds control limits

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS using sample DUP-2. The RPD result was within the laboratory specified acceptance criteria.

2.7 Equipment Blank

Two equipment blanks, EB-1 and EB-2 were collected with the sample set. Metals were not detected in the equipment blanks above the MDLs.

2.8 Field Blank

Two field blanks, FB-1 and FB-2 were collected with the sample set. Metals were not detected in the field blanks above the MDLs .

2.9 Field Duplicate

Two field duplicate samples were collected with the sample set, DUP-1 and DUP-2. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, PZ-23D and PZ-26S; respectively.

2.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

2.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

| Valid Value | Description |
|--------------------|--|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside limits |
| 5 | LCS or RPD recovery outside limits (LCS/LCSD) |
| 6 | Surrogate recovery outside limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

APPENDIX B3

Field Sampling and Equipment Calibration Forms

Field Sampling Forms – February 2021

Low-Flow Test Report:

Test Date / Time: 2/2/2021 10:45:16 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

| | | |
|--|--|--|
| Location Name: WGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 120.6 ft Total Depth: 130.59 ft Initial Depth to Water: 25.01 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 125.6 ft Estimated Total Volume Pumped: 13 liter Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 1 in. | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|--|--|--|

Test Notes:

Collected at 1115. 38F clear.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 2/2/2021 10:45 AM | 00:00 | 5.69 pH | 15.40 °C | 37.39 µS/cm | 1.46 mg/L | 8.07 NTU | 144.5 mV | 25.1 ft | 130.00 ml/min |
| 2/2/2021 10:50 AM | 05:00 | 5.38 pH | 15.50 °C | 37.71 µS/cm | 1.47 mg/L | 9.00 NTU | 142.7 mV | 25.1 ft | 130.00 ml/min |
| 2/2/2021 10:55 AM | 10:00 | 5.33 pH | 15.62 °C | 37.43 µS/cm | 1.49 mg/L | 7.55 NTU | 138.5 mV | 25.1 ft | 130.00 ml/min |
| 2/2/2021 11:00 AM | 15:00 | 5.34 pH | 15.83 °C | 37.43 µS/cm | 1.49 mg/L | 5.91 NTU | 137.1 mV | 25.1 ft | 130.00 ml/min |
| 2/2/2021 11:05 AM | 20:00 | 5.34 pH | 15.58 °C | 37.46 µS/cm | 1.50 mg/L | 5.13 NTU | 136.0 mV | 25.1 ft | 130.00 ml/min |
| 2/2/2021 11:10 AM | 25:00 | 5.35 pH | 15.56 °C | 37.50 µS/cm | 1.48 mg/L | 5.81 NTU | 135.3 mV | 25.1 ft | 130.00 ml/min |
| 2/2/2021 11:15 AM | 30:00 | 5.36 pH | 15.59 °C | 37.40 µS/cm | 1.48 mg/L | 4.78 NTU | 134.1 mV | 25.1 ft | 130.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/2/2021 11:50:29 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

| | | |
|--|--|--|
| Location Name: WGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 92.7 ft Total Depth: 102.65 ft Initial Depth to Water: 8.24 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 97.5 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.96 ft | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|--|--|--|

Test Notes:

Collected at 1220. 41F clear.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 2/2/2021 11:50 AM | 00:00 | 6.09 pH | 14.81 °C | 136.36 µS/cm | 0.24 mg/L | 7.32 NTU | 134.4 mV | 8.24 ft | 150.00 ml/min |
| 2/2/2021 11:55 AM | 05:00 | 6.08 pH | 15.49 °C | 124.21 µS/cm | 0.12 mg/L | 4.06 NTU | 130.8 mV | 9.20 ft | 150.00 ml/min |
| 2/2/2021 12:00 PM | 10:00 | 6.08 pH | 15.80 °C | 123.83 µS/cm | 0.09 mg/L | 3.21 NTU | 128.7 mV | 9.20 ft | 150.00 ml/min |
| 2/2/2021 12:05 PM | 15:00 | 6.09 pH | 15.98 °C | 123.96 µS/cm | 0.10 mg/L | 1.11 NTU | 127.6 mV | 9.20 ft | 150.00 ml/min |
| 2/2/2021 12:10 PM | 20:00 | 6.09 pH | 15.59 °C | 126.49 µS/cm | 0.12 mg/L | 0.96 NTU | 127.6 mV | 9.20 ft | 150.00 ml/min |
| 2/2/2021 12:15 PM | 25:00 | 6.10 pH | 15.54 °C | 127.13 µS/cm | 0.13 mg/L | 0.93 NTU | 126.9 mV | 9.20 ft | 150.00 ml/min |
| 2/2/2021 12:20 PM | 30:00 | 6.10 pH | 15.94 °C | 126.34 µS/cm | 0.15 mg/L | 0.88 NTU | 124.4 mV | 9.20 ft | 150.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/2/2021 11:10:57 AM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

| | | |
|---|--|--|
| Location Name: WGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9 ft Total Depth: 19 ft Initial Depth to Water: 2.95 ft | Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 10.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.6 in | Instrument Used: Aqua TROLL 400 Serial Number: 714344 |
|---|--|--|

Test Notes:

Sampled at 1145 on 2-2-21. Dup-1 here.

Weather Conditions:

Sunny, 30s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 2/2/2021 11:10 AM | 00:00 | 6.93 pH | 16.33 °C | 31.20 µS/cm | 5.76 mg/L | 2.00 NTU | 120.1 mV | 2.95 ft | 300.00 ml/min |
| 2/2/2021 11:15 AM | 05:00 | 6.24 pH | 16.38 °C | 31.34 µS/cm | 5.73 mg/L | 2.10 NTU | 115.8 mV | 2.95 ft | 300.00 ml/min |
| 2/2/2021 11:18 AM | 07:09 | 6.08 pH | 16.29 °C | 31.65 µS/cm | 5.74 mg/L | 2.10 NTU | 131.7 mV | 2.95 ft | 300.00 ml/min |
| 2/2/2021 11:18 AM | 07:52 | 5.98 pH | 16.31 °C | 31.39 µS/cm | 5.72 mg/L | 2.10 NTU | 134.9 mV | 3.00 ft | 300.00 ml/min |
| 2/2/2021 11:23 AM | 12:52 | 5.87 pH | 16.33 °C | 31.32 µS/cm | 5.76 mg/L | 0.70 NTU | 118.1 mV | 3.00 ft | 300.00 ml/min |
| 2/2/2021 11:28 AM | 17:52 | 5.75 pH | 16.38 °C | 31.42 µS/cm | 5.69 mg/L | 0.50 NTU | 119.0 mV | 3.00 ft | 300.00 ml/min |
| 2/2/2021 11:33 AM | 22:52 | 5.78 pH | 16.24 °C | 31.12 µS/cm | 5.69 mg/L | 0.60 NTU | 118.2 mV | 3.00 ft | 300.00 ml/min |
| 2/2/2021 11:38 AM | 27:52 | 5.86 pH | 16.33 °C | 31.14 µS/cm | 5.68 mg/L | 0.30 NTU | 116.2 mV | 3.00 ft | 300.00 ml/min |
| 2/2/2021 11:43 AM | 32:52 | 5.78 pH | 16.37 °C | 30.94 µS/cm | 5.65 mg/L | 0.40 NTU | 118.0 mV | 3.00 ft | 300.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/2/2021 12:18:33 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

| | | |
|--|---|--|
| Location Name: WGWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.9 ft Total Depth: 73.9 ft Initial Depth to Water: 5.03 ft | Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 68.9 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3.2 in | Instrument Used: Aqua TROLL 400 Serial Number: 714344 |
|--|---|--|

Test Notes:

Sampled at 1250 on 2-2-21.

Weather Conditions:

Sunny, 40s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 2/2/2021 12:18 PM | 00:00 | 6.68 pH | 22.04 °C | 100.84 µS/cm | 4.23 mg/L | 5.00 NTU | 65.2 mV | 5.03 ft | 150.00 ml/min |
| 2/2/2021 12:20 PM | 01:56 | 6.63 pH | 17.82 °C | 113.71 µS/cm | 1.48 mg/L | 5.00 NTU | 38.7 mV | 5.03 ft | 150.00 ml/min |
| 2/2/2021 12:25 PM | 06:56 | 6.58 pH | 16.38 °C | 124.48 µS/cm | 0.24 mg/L | 1.00 NTU | 43.1 mV | 5.30 ft | 150.00 ml/min |
| 2/2/2021 12:30 PM | 11:56 | 6.62 pH | 16.10 °C | 125.97 µS/cm | 0.13 mg/L | 1.20 NTU | 39.9 mV | 5.30 ft | 150.00 ml/min |
| 2/2/2021 12:35 PM | 16:56 | 6.61 pH | 15.82 °C | 125.38 µS/cm | 0.08 mg/L | 1.10 NTU | 38.6 mV | 5.30 ft | 150.00 ml/min |
| 2/2/2021 12:40 PM | 21:56 | 6.60 pH | 15.48 °C | 125.46 µS/cm | 0.08 mg/L | 0.85 NTU | 37.3 mV | 5.30 ft | 150.00 ml/min |
| 2/2/2021 12:45 PM | 26:56 | 6.61 pH | 15.50 °C | 124.84 µS/cm | 0.08 mg/L | 0.80 NTU | 34.0 mV | 5.30 ft | 150.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/3/2021 11:05:07 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

| | | |
|--|--|--|
| Location Name: WGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13.6 ft Total Depth: 23.60 ft Initial Depth to Water: 14.97 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 18.6 ft Estimated Total Volume Pumped: 28 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 7 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|--|--|--|

Test Notes:

Collected at 1325. 47F clear. Purge start time: 10:10 Total Purge Time: 195 min.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 2/3/2021 11:05 AM | 00:00 | 6.56 pH | 14.23 °C | 34.89 µS/cm | 2.99 mg/L | 33.00 NTU | 47.9 mV | 15.50 ft | 100.00 ml/min |
| 2/3/2021 11:10 AM | 05:00 | 5.96 pH | 14.57 °C | 32.19 µS/cm | 3.16 mg/L | 31.00 NTU | 61.6 mV | 15.60 ft | 100.00 ml/min |
| 2/3/2021 11:15 AM | 10:00 | 5.70 pH | 14.69 °C | 30.60 µS/cm | 3.24 mg/L | 26.90 NTU | 73.9 mV | 15.60 ft | 100.00 ml/min |
| 2/3/2021 11:20 AM | 15:00 | 5.57 pH | 14.63 °C | 28.57 µS/cm | 3.47 mg/L | 24.60 NTU | 84.0 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 11:25 AM | 20:00 | 5.49 pH | 14.68 °C | 27.25 µS/cm | 3.60 mg/L | 21.90 NTU | 93.6 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 11:30 AM | 25:00 | 5.46 pH | 14.47 °C | 26.60 µS/cm | 3.62 mg/L | 23.60 NTU | 101.3 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 11:35 AM | 30:00 | 5.44 pH | 14.72 °C | 26.61 µS/cm | 3.82 mg/L | 23.50 NTU | 107.2 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 11:40 AM | 35:00 | 5.45 pH | 14.27 °C | 27.61 µS/cm | 3.74 mg/L | 22.70 NTU | 111.6 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 11:45 AM | 40:00 | 5.41 pH | 15.53 °C | 28.23 µS/cm | 3.73 mg/L | 22.10 NTU | 116.0 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 11:50 AM | 45:00 | 5.39 pH | 16.14 °C | 26.34 µS/cm | 3.92 mg/L | 21.90 NTU | 120.0 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 11:55 AM | 50:00 | 5.37 pH | 16.03 °C | 26.32 µS/cm | 4.04 mg/L | 21.30 NTU | 124.7 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 12:00 PM | 55:00 | 5.37 pH | 16.43 °C | 26.46 µS/cm | 4.13 mg/L | 20.40 NTU | 128.8 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 12:05 PM | 01:00:00 | 5.35 pH | 15.98 °C | 25.57 µS/cm | 4.23 mg/L | 19.80 NTU | 132.7 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 12:10 PM | 01:05:00 | 5.34 pH | 16.16 °C | 25.98 µS/cm | 4.27 mg/L | 19.20 NTU | 135.4 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 12:15 PM | 01:10:00 | 5.35 pH | 16.47 °C | 25.82 µS/cm | 4.26 mg/L | 18.60 NTU | 137.7 mV | 15.70 ft | 100.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|-------------|-----------|-----------|----------|----------|---------------|
| 2/3/2021 12:20 PM | 01:15:00 | 5.35 pH | 16.34 °C | 25.40 µS/cm | 4.42 mg/L | 18.60 NTU | 140.1 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 12:25 PM | 01:20:00 | 5.32 pH | 16.07 °C | 25.16 µS/cm | 4.58 mg/L | 18.60 NTU | 143.1 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 12:30 PM | 01:25:00 | 5.32 pH | 15.89 °C | 25.18 µS/cm | 4.62 mg/L | 17.40 NTU | 144.4 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 12:35 PM | 01:30:00 | 5.32 pH | 15.71 °C | 24.83 µS/cm | 4.63 mg/L | 17.30 NTU | 146.5 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 12:40 PM | 01:35:00 | 5.32 pH | 15.62 °C | 25.78 µS/cm | 4.72 mg/L | 17.00 NTU | 147.2 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 12:45 PM | 01:40:00 | 5.32 pH | 15.89 °C | 25.65 µS/cm | 4.77 mg/L | 16.90 NTU | 148.3 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 12:50 PM | 01:45:00 | 5.32 pH | 15.97 °C | 25.25 µS/cm | 4.73 mg/L | 16.00 NTU | 149.5 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 12:55 PM | 01:50:00 | 5.32 pH | 16.29 °C | 25.35 µS/cm | 4.76 mg/L | 15.60 NTU | 150.1 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 1:00 PM | 01:55:00 | 5.33 pH | 16.41 °C | 25.22 µS/cm | 4.73 mg/L | 14.70 NTU | 150.4 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 1:05 PM | 02:00:00 | 5.33 pH | 16.07 °C | 24.78 µS/cm | 4.78 mg/L | 13.30 NTU | 151.0 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 1:10 PM | 02:05:00 | 5.32 pH | 16.29 °C | 25.54 µS/cm | 4.79 mg/L | 12.80 NTU | 151.6 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 1:15 PM | 02:10:00 | 5.32 pH | 16.30 °C | 25.18 µS/cm | 4.82 mg/L | 11.60 NTU | 151.7 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 1:20 PM | 02:15:00 | 5.32 pH | 15.68 °C | 25.26 µS/cm | 4.90 mg/L | 10.20 NTU | 152.4 mV | 15.70 ft | 100.00 ml/min |
| 2/3/2021 1:25 PM | 02:20:00 | 5.31 pH | 15.28 °C | 25.45 µS/cm | 4.94 mg/L | 9.92 NTU | 160.3 mV | 15.70 ft | 100.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/3/2021 10:00:11 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

| | | |
|--|---|--|
| Location Name: WGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 94.5 ft Total Depth: 104.5 ft Initial Depth to Water: 16.18 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 11 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 14 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|--|---|--|

Test Notes:

Collected at 1030. 36 F clear.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 2/3/2021 10:00 AM | 00:00 | 7.64 pH | 15.23 °C | 0.31 µS/cm | 7.12 mg/L | 2.98 NTU | 95.8 mV | 17.00 ft | 100.00 ml/min |
| 2/3/2021 10:05 AM | 05:00 | 7.83 pH | 15.26 °C | 170.29 µS/cm | 0.48 mg/L | 2.87 NTU | 88.1 mV | 17.30 ft | 100.00 ml/min |
| 2/3/2021 10:10 AM | 10:00 | 7.80 pH | 15.13 °C | 171.68 µS/cm | 0.21 mg/L | 2.32 NTU | 79.9 mV | 17.60 ft | 100.00 ml/min |
| 2/3/2021 10:15 AM | 15:00 | 7.79 pH | 15.04 °C | 169.45 µS/cm | 0.20 mg/L | 1.12 NTU | 71.1 mV | 17.70 ft | 100.00 ml/min |
| 2/3/2021 10:20 AM | 20:00 | 7.78 pH | 14.76 °C | 171.69 µS/cm | 0.22 mg/L | 1.17 NTU | 63.0 mV | 17.80 ft | 100.00 ml/min |
| 2/3/2021 10:25 AM | 25:00 | 7.77 pH | 15.59 °C | 170.65 µS/cm | 0.23 mg/L | 1.17 NTU | 55.9 mV | 17.80 ft | 100.00 ml/min |
| 2/3/2021 10:30 AM | 30:00 | 7.77 pH | 15.26 °C | 169.90 µS/cm | 0.23 mg/L | 1.19 NTU | 49.5 mV | 17.80 ft | 100.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/2/2021 1:38:44 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

| | | |
|---|--|--|
| Location Name: WGWA-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.6 ft Total Depth: 39.6 ft Initial Depth to Water: 27.23 ft | Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 34.6 ft Estimated Total Volume Pumped: 5.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2 in | Instrument Used: Aqua TROLL 400 Serial Number: 714344 |
|---|--|--|

Test Notes:

Sampled at 1410 on 2-2-21.

Weather Conditions:

Sunny, 40s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 2/2/2021 1:38 PM | 00:00 | 7.56 pH | 17.89 °C | 10.96 µS/cm | 9.03 mg/L | 5.00 NTU | 34.7 mV | 27.23 ft | 150.00 ml/min |
| 2/2/2021 1:43 PM | 05:00 | 6.50 pH | 15.18 °C | 23.55 µS/cm | 8.97 mg/L | 0.30 NTU | 60.3 mV | 27.30 ft | 150.00 ml/min |
| 2/2/2021 1:48 PM | 10:00 | 6.13 pH | 15.34 °C | 23.03 µS/cm | 9.35 mg/L | 0.40 NTU | 70.3 mV | 27.30 ft | 150.00 ml/min |
| 2/2/2021 1:53 PM | 15:00 | 5.97 pH | 15.30 °C | 23.26 µS/cm | 9.17 mg/L | 0.40 NTU | 73.9 mV | 27.30 ft | 150.00 ml/min |
| 2/2/2021 1:58 PM | 20:00 | 5.90 pH | 15.21 °C | 23.59 µS/cm | 8.93 mg/L | 0.35 NTU | 75.8 mV | 27.40 ft | 150.00 ml/min |
| 2/2/2021 2:03 PM | 25:00 | 5.86 pH | 15.21 °C | 24.23 µS/cm | 9.11 mg/L | 0.40 NTU | 76.7 mV | 27.40 ft | 150.00 ml/min |
| 2/2/2021 2:08 PM | 30:00 | 5.84 pH | 15.07 °C | 24.30 µS/cm | 9.16 mg/L | 0.40 NTU | 79.0 mV | 27.40 ft | 150.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/2/2021 1:10:47 PM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

| | | |
|--|--|--|
| Location Name: WGWA-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.9 ft Total Depth: 36.9 ft Initial Depth to Water: 22.18 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 31.9 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 16 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|--|--|--|

Test Notes:

Collected at 1450. 46F clear.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 2/2/2021 1:10 PM | 00:00 | 6.65 pH | 14.68 °C | 120.60 µS/cm | 4.40 mg/L | 1.32 NTU | 117.1 mV | 22.18 ft | 100.00 ml/min |
| 2/2/2021 1:15 PM | 05:00 | 7.02 pH | 15.76 °C | 130.16 µS/cm | 1.28 mg/L | 1.82 NTU | 96.0 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 1:20 PM | 10:00 | 7.24 pH | 15.94 °C | 132.61 µS/cm | 0.98 mg/L | 1.65 NTU | 85.4 mV | 23.00 ft | 100.00 ml/min |
| 2/2/2021 1:25 PM | 15:00 | 7.41 pH | 15.94 °C | 133.39 µS/cm | 0.78 mg/L | 1.54 NTU | 78.3 mV | 23.20 ft | 100.00 ml/min |
| 2/2/2021 1:30 PM | 20:00 | 7.49 pH | 15.89 °C | 135.33 µS/cm | 0.67 mg/L | 1.44 NTU | 73.2 mV | 23.40 ft | 100.00 ml/min |
| 2/2/2021 1:35 PM | 25:00 | 7.44 pH | 15.85 °C | 137.56 µS/cm | 0.50 mg/L | 1.42 NTU | 68.1 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 1:40 PM | 30:00 | 7.31 pH | 16.02 °C | 137.59 µS/cm | 0.38 mg/L | 1.19 NTU | 62.7 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 1:45 PM | 35:00 | 7.18 pH | 15.71 °C | 138.35 µS/cm | 0.34 mg/L | 1.31 NTU | 58.0 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 1:50 PM | 40:00 | 7.07 pH | 15.51 °C | 137.34 µS/cm | 0.33 mg/L | 1.19 NTU | 54.8 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 1:55 PM | 45:00 | 6.98 pH | 15.39 °C | 137.14 µS/cm | 0.32 mg/L | 0.99 NTU | 51.9 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 2:00 PM | 50:00 | 6.90 pH | 15.31 °C | 136.44 µS/cm | 0.30 mg/L | 1.04 NTU | 49.8 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 2:05 PM | 55:00 | 6.84 pH | 15.26 °C | 134.80 µS/cm | 0.30 mg/L | 0.82 NTU | 48.5 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 2:10 PM | 01:00:00 | 6.77 pH | 15.18 °C | 132.18 µS/cm | 0.34 mg/L | 0.81 NTU | 47.0 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 2:15 PM | 01:05:00 | 6.72 pH | 15.15 °C | 127.52 µS/cm | 0.46 mg/L | 0.80 NTU | 46.4 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 2:20 PM | 01:10:00 | 6.66 pH | 15.16 °C | 121.66 µS/cm | 0.69 mg/L | 1.11 NTU | 46.2 mV | 23.60 ft | 100.00 ml/min |

| | | | | | | | | | |
|------------------|----------|---------|----------|--------------|-----------|----------|---------|----------|---------------|
| 2/2/2021 2:25 PM | 01:15:00 | 6.63 pH | 15.08 °C | 116.36 µS/cm | 0.94 mg/L | 1.02 NTU | 46.0 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 2:30 PM | 01:20:00 | 6.61 pH | 15.08 °C | 114.38 µS/cm | 1.15 mg/L | 1.01 NTU | 46.5 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 2:35 PM | 01:25:00 | 6.58 pH | 15.17 °C | 111.03 µS/cm | 1.32 mg/L | 0.91 NTU | 46.5 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 2:40 PM | 01:30:00 | 6.55 pH | 15.20 °C | 107.32 µS/cm | 1.44 mg/L | 0.94 NTU | 46.6 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 2:45 PM | 01:35:00 | 6.50 pH | 15.16 °C | 105.45 µS/cm | 1.52 mg/L | 0.89 NTU | 47.1 mV | 23.60 ft | 100.00 ml/min |
| 2/2/2021 2:50 PM | 01:40:00 | 6.47 pH | 15.04 °C | 103.25 µS/cm | 1.63 mg/L | 0.88 NTU | 47.6 mV | 23.60 ft | 100.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/3/2021 3:17:33 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

| | | |
|---|--|--|
| Location Name: WGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.4 ft Total Depth: 59.4 ft Initial Depth to Water: 3.3 ft | Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 54.4 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 13.2 in | Instrument Used: Aqua TROLL 400 Serial Number: 714344 |
|---|--|--|

Test Notes:

Sampled at 1545 on 2-3-21.

Weather Conditions:

Sunny, 40s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 2/3/2021 3:17 PM | 00:00 | 5.66 pH | 15.12 °C | 726.50 µS/cm | 2.78 mg/L | 5.00 NTU | 102.5 mV | 3.30 ft | 100.00 ml/min |
| 2/3/2021 3:22 PM | 05:00 | 5.28 pH | 14.39 °C | 739.58 µS/cm | 1.42 mg/L | 1.70 NTU | 119.6 mV | 4.00 ft | 100.00 ml/min |
| 2/3/2021 3:27 PM | 10:00 | 5.13 pH | 14.17 °C | 743.15 µS/cm | 1.21 mg/L | 1.90 NTU | 128.0 mV | 4.10 ft | 100.00 ml/min |
| 2/3/2021 3:32 PM | 15:00 | 5.08 pH | 14.12 °C | 743.82 µS/cm | 1.18 mg/L | 1.50 NTU | 131.1 mV | 4.20 ft | 100.00 ml/min |
| 2/3/2021 3:37 PM | 20:00 | 5.08 pH | 14.08 °C | 744.96 µS/cm | 1.18 mg/L | 1.10 NTU | 132.0 mV | 4.30 ft | 100.00 ml/min |
| 2/3/2021 3:42 PM | 25:00 | 5.08 pH | 14.04 °C | 747.29 µS/cm | 1.20 mg/L | 1.20 NTU | 132.2 mV | 4.40 ft | 100.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/4/2021 1:44:27 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

| | | |
|--|---|--|
| Location Name: WGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.4 ft Total Depth: 61.42 ft Initial Depth to Water: 19.76 ft | Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 56.4 ft Estimated Total Volume Pumped: 3.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 13.7 in | Instrument Used: Aqua TROLL 400 Serial Number: 714344 |
|--|---|--|

Test Notes:

Sampled at 1412 on 2-4-21.

Weather Conditions:

Cloudy, 40s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 2/4/2021 1:44 PM | 00:00 | 5.77 pH | 14.66 °C | 163.19 µS/cm | 6.63 mg/L | 5.00 NTU | 141.1 mV | 19.76 ft | 100.00 ml/min |
| 2/4/2021 1:49 PM | 05:00 | 6.14 pH | 15.78 °C | 168.16 µS/cm | 5.04 mg/L | 2.30 NTU | 131.0 mV | 20.60 ft | 100.00 ml/min |
| 2/4/2021 1:54 PM | 10:00 | 6.21 pH | 16.31 °C | 169.67 µS/cm | 4.91 mg/L | 2.60 NTU | 148.3 mV | 20.70 ft | 100.00 ml/min |
| 2/4/2021 1:59 PM | 15:00 | 6.25 pH | 16.66 °C | 167.07 µS/cm | 4.78 mg/L | 1.90 NTU | 127.2 mV | 20.80 ft | 100.00 ml/min |
| 2/4/2021 2:04 PM | 20:00 | 6.27 pH | 16.55 °C | 166.27 µS/cm | 4.76 mg/L | 1.60 NTU | 125.8 mV | 20.80 ft | 100.00 ml/min |
| 2/4/2021 2:09 PM | 25:00 | 6.22 pH | 16.33 °C | 168.30 µS/cm | 4.77 mg/L | 1.60 NTU | 126.2 mV | 20.90 ft | 100.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/4/2021 3:08:01 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

| | | |
|---|---|--|
| Location Name: WGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 138.9 ft Total Depth: 148.95 ft Initial Depth to Water: 15.52 ft | Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 143.9 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 11.8 in | Instrument Used: Aqua TROLL 400 Serial Number: 714344 |
|---|---|--|

Test Notes:

Sampled at 1550 on 2-4-21.

Weather Conditions:

Cloudy, 40s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 2/4/2021 3:08 PM | 00:00 | 6.53 pH | 13.03 °C | 59.01 µS/cm | 9.50 mg/L | 5.00 NTU | 129.9 mV | 15.52 ft | 100.00 ml/min |
| 2/4/2021 3:13 PM | 05:00 | 6.28 pH | 14.31 °C | 62.99 µS/cm | 2.01 mg/L | 1.80 NTU | 126.5 mV | 16.10 ft | 100.00 ml/min |
| 2/4/2021 3:18 PM | 10:00 | 6.21 pH | 14.89 °C | 61.75 µS/cm | 1.20 mg/L | 2.30 NTU | 143.3 mV | 16.20 ft | 100.00 ml/min |
| 2/4/2021 3:23 PM | 15:00 | 6.22 pH | 14.98 °C | 60.88 µS/cm | 2.61 mg/L | 2.20 NTU | 124.2 mV | 16.30 ft | 100.00 ml/min |
| 2/4/2021 3:28 PM | 20:00 | 6.26 pH | 14.96 °C | 62.49 µS/cm | 3.49 mg/L | 1.90 NTU | 122.4 mV | 16.30 ft | 100.00 ml/min |
| 2/4/2021 3:33 PM | 25:00 | 6.27 pH | 14.48 °C | 63.91 µS/cm | 3.99 mg/L | 2.30 NTU | 121.8 mV | 16.40 ft | 100.00 ml/min |
| 2/4/2021 3:38 PM | 30:00 | 6.27 pH | 14.24 °C | 64.68 µS/cm | 4.42 mg/L | 2.00 NTU | 121.2 mV | 16.50 ft | 100.00 ml/min |
| 2/4/2021 3:43 PM | 35:00 | 6.24 pH | 14.03 °C | 65.16 µS/cm | 4.62 mg/L | 1.90 NTU | 121.9 mV | 16.50 ft | 100.00 ml/min |
| 2/4/2021 3:48 PM | 40:00 | 6.21 pH | 13.97 °C | 65.20 µS/cm | 4.69 mg/L | 2.00 NTU | 122.2 mV | 16.50 ft | 100.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/3/2021 1:56:37 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

| | | |
|--|--|--|
| Location Name: WGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.5 ft Total Depth: 49.5 ft Initial Depth to Water: 21.91 ft | Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 44.5 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 10.7 in | Instrument Used: Aqua TROLL 400 Serial Number: 714344 |
|--|--|--|

Test Notes:

Sampled at 1435 on 2-3-21.

Weather Conditions:

Sunny, 40s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 2/3/2021 1:56 PM | 00:00 | 6.87 pH | 19.35 °C | 31.02 µS/cm | 7.38 mg/L | 5.00 NTU | 62.7 mV | 21.91 ft | 150.00 ml/min |
| 2/3/2021 2:01 PM | 05:00 | 6.11 pH | 17.58 °C | 31.31 µS/cm | 7.81 mg/L | 3.20 NTU | 85.0 mV | 22.50 ft | 150.00 ml/min |
| 2/3/2021 2:06 PM | 10:00 | 5.77 pH | 17.27 °C | 31.28 µS/cm | 8.23 mg/L | 3.10 NTU | 100.6 mV | 22.60 ft | 150.00 ml/min |
| 2/3/2021 2:11 PM | 15:00 | 5.52 pH | 17.21 °C | 31.19 µS/cm | 8.16 mg/L | 2.90 NTU | 111.5 mV | 22.70 ft | 150.00 ml/min |
| 2/3/2021 2:16 PM | 20:00 | 5.40 pH | 16.67 °C | 31.02 µS/cm | 8.06 mg/L | 2.90 NTU | 119.4 mV | 22.80 ft | 150.00 ml/min |
| 2/3/2021 2:21 PM | 25:00 | 5.31 pH | 16.15 °C | 30.97 µS/cm | 8.15 mg/L | 2.80 NTU | 124.9 mV | 22.80 ft | 150.00 ml/min |
| 2/3/2021 2:26 PM | 30:00 | 5.24 pH | 15.80 °C | 30.97 µS/cm | 8.17 mg/L | 2.50 NTU | 129.7 mV | 22.80 ft | 150.00 ml/min |
| 2/3/2021 2:31 PM | 35:00 | 5.21 pH | 15.79 °C | 31.08 µS/cm | 8.18 mg/L | 2.60 NTU | 132.4 mV | 22.80 ft | 150.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/3/2021 12:32:54 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

| | | |
|---|--|--|
| Location Name: WGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.57 ft Total Depth: 76.57 ft Initial Depth to Water: 21.5 ft | Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 71.5 ft Estimated Total Volume Pumped: 27.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.2 in | Instrument Used: Aqua TROLL 400 Serial Number: 714344 |
|---|--|--|

Test Notes:

Sampled at 1325 on 2-3-21. Purge start time: 10:20 Total purge time: 185 min.

Weather Conditions:

Sunny, 40s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 2/3/2021 12:32 PM | 00:00 | 6.89 pH | 16.00 °C | 107.32 µS/cm | 1.27 mg/L | 5.00 NTU | 67.1 mV | 21.50 ft | 150.00 ml/min |
| 2/3/2021 12:37 PM | 05:00 | 6.63 pH | 16.62 °C | 105.72 µS/cm | 0.46 mg/L | 6.30 NTU | 64.0 mV | 21.60 ft | 150.00 ml/min |
| 2/3/2021 12:42 PM | 10:00 | 6.47 pH | 16.64 °C | 106.18 µS/cm | 0.53 mg/L | 10.4 NTU | 62.8 mV | 21.60 ft | 150.00 ml/min |
| 2/3/2021 12:47 PM | 15:00 | 6.34 pH | 16.51 °C | 107.71 µS/cm | 0.35 mg/L | 10.2 NTU | 63.9 mV | 21.60 ft | 150.00 ml/min |
| 2/3/2021 12:52 PM | 20:00 | 6.21 pH | 16.64 °C | 108.76 µS/cm | 0.26 mg/L | 10.1 NTU | 65.2 mV | 21.60 ft | 150.00 ml/min |
| 2/3/2021 12:57 PM | 25:00 | 6.17 pH | 16.72 °C | 109.48 µS/cm | 0.27 mg/L | 9.50 NTU | 64.3 mV | 21.60 ft | 150.00 ml/min |
| 2/3/2021 1:02 PM | 30:00 | 6.16 pH | 16.69 °C | 109.73 µS/cm | 0.26 mg/L | 9.10 NTU | 63.0 mV | 21.60 ft | 150.00 ml/min |
| 2/3/2021 1:07 PM | 35:00 | 6.16 pH | 16.82 °C | 109.99 µS/cm | 0.24 mg/L | 9.10 NTU | 61.3 mV | 21.60 ft | 150.00 ml/min |
| 2/3/2021 1:12 PM | 40:00 | 6.14 pH | 16.81 °C | 111.48 µS/cm | 0.23 mg/L | 8.30 NTU | 59.7 mV | 21.60 ft | 150.00 ml/min |
| 2/3/2021 1:17 PM | 45:00 | 6.15 pH | 16.85 °C | 111.92 µS/cm | 0.26 mg/L | 8.10 NTU | 57.4 mV | 21.60 ft | 150.00 ml/min |
| 2/3/2021 1:22 PM | 50:00 | 6.15 pH | 16.89 °C | 111.83 µS/cm | 0.30 mg/L | 9.00 NTU | 56.2 mV | 21.60 ft | 150.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/4/2021 10:40:09 AM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

| | | |
|---|--|--|
| Location Name: WGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.5 ft Total Depth: 95.55 ft Initial Depth to Water: 19.81 ft | Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90.5 ft Estimated Total Volume Pumped: 6.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 22.7 in | Instrument Used: Aqua TROLL 400 Serial Number: 714344 |
|---|--|--|

Test Notes:

Sampled at 1115 on 2-4-21.

Weather Conditions:

Cloudy, 30s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 2/4/2021 10:40 AM | 00:00 | 8.44 pH | 11.75 °C | 104.48 µS/cm | 5.68 mg/L | 5.00 NTU | 163.8 mV | 19.81 ft | 100.00 ml/min |
| 2/4/2021 10:45 AM | 05:00 | 7.12 pH | 13.04 °C | 68.69 µS/cm | 1.91 mg/L | 3.20 NTU | 143.3 mV | 21.40 ft | 100.00 ml/min |
| 2/4/2021 10:50 AM | 10:00 | 6.55 pH | 13.78 °C | 63.70 µS/cm | 1.75 mg/L | 2.80 NTU | 133.4 mV | 21.50 ft | 100.00 ml/min |
| 2/4/2021 10:55 AM | 15:00 | 6.38 pH | 13.94 °C | 62.66 µS/cm | 1.70 mg/L | 3.20 NTU | 130.3 mV | 21.50 ft | 100.00 ml/min |
| 2/4/2021 11:00 AM | 20:00 | 6.31 pH | 13.94 °C | 62.38 µS/cm | 1.77 mg/L | 3.15 NTU | 128.5 mV | 21.50 ft | 100.00 ml/min |
| 2/4/2021 11:05 AM | 25:00 | 6.28 pH | 13.99 °C | 61.93 µS/cm | 1.74 mg/L | 2.70 NTU | 126.6 mV | 21.60 ft | 100.00 ml/min |
| 2/4/2021 11:10 AM | 30:00 | 6.34 pH | 13.93 °C | 61.98 µS/cm | 1.80 mg/L | 2.80 NTU | 122.6 mV | 21.70 ft | 100.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/4/2021 11:34:33 AM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

| | | |
|--|---|--|
| Location Name: WGWC-14A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33 ft Total Depth: 43.08 ft Initial Depth to Water: 19.64 ft | Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 8.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 10.3 in | Instrument Used: Aqua TROLL 400 Serial Number: 714344 |
|--|---|--|

Test Notes:

Sampled at 1240 on 2-4-21. Extra rad.

Weather Conditions:

Cloudy, 30s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 2/4/2021 11:34 AM | 00:00 | 6.72 pH | 13.20 °C | 0.57 µS/cm | 10.03 mg/L | 5.00 NTU | 112.9 mV | 19.64 ft | 125.00 ml/min |
| 2/4/2021 11:39 AM | 05:00 | 5.85 pH | 13.35 °C | 28.11 µS/cm | 3.67 mg/L | 6.40 NTU | 140.5 mV | 20.10 ft | 125.00 ml/min |
| 2/4/2021 11:44 AM | 10:00 | 5.64 pH | 14.69 °C | 26.75 µS/cm | 3.12 mg/L | 6.10 NTU | 165.2 mV | 20.20 ft | 125.00 ml/min |
| 2/4/2021 11:49 AM | 15:00 | 5.56 pH | 14.84 °C | 26.28 µS/cm | 2.34 mg/L | 5.00 NTU | 142.8 mV | 20.20 ft | 125.00 ml/min |
| 2/4/2021 11:54 AM | 20:00 | 5.51 pH | 14.96 °C | 25.78 µS/cm | 1.83 mg/L | 2.40 NTU | 143.9 mV | 20.30 ft | 125.00 ml/min |
| 2/4/2021 11:59 AM | 25:00 | 5.51 pH | 15.25 °C | 25.50 µS/cm | 1.50 mg/L | 3.70 NTU | 145.9 mV | 20.30 ft | 125.00 ml/min |
| 2/4/2021 12:04 PM | 30:00 | 5.51 pH | 15.31 °C | 25.37 µS/cm | 1.37 mg/L | 3.10 NTU | 145.5 mV | 20.30 ft | 125.00 ml/min |
| 2/4/2021 12:09 PM | 35:00 | 5.49 pH | 15.34 °C | 25.15 µS/cm | 1.19 mg/L | 1.00 NTU | 146.5 mV | 20.30 ft | 125.00 ml/min |
| 2/4/2021 12:14 PM | 40:00 | 5.49 pH | 15.48 °C | 25.68 µS/cm | 1.16 mg/L | 1.10 NTU | 147.5 mV | 20.30 ft | 125.00 ml/min |
| 2/4/2021 12:19 PM | 45:00 | 5.65 pH | 15.61 °C | 29.78 µS/cm | 0.95 mg/L | 1.20 NTU | 145.3 mV | 20.40 ft | 125.00 ml/min |
| 2/4/2021 12:24 PM | 50:00 | 5.70 pH | 15.50 °C | 32.04 µS/cm | 0.80 mg/L | 1.10 NTU | 144.1 mV | 20.40 ft | 125.00 ml/min |
| 2/4/2021 12:29 PM | 55:00 | 5.72 pH | 15.57 °C | 33.50 µS/cm | 0.73 mg/L | 0.50 NTU | 143.6 mV | 20.40 ft | 125.00 ml/min |
| 2/4/2021 12:34 PM | 1:00:00 | 5.74 pH | 15.70 °C | 34.33 µS/cm | 0.66 mg/L | 0.60 NTU | 143.2 mV | 20.40 ft | 125.00 ml/min |
| 2/4/2021 12:39 PM | 1:05:00 | 5.76 pH | 15.70 °C | 34.47 µS/cm | 0.64 mg/L | 0.60 NTU | 143.1 mV | 20.40 ft | 125.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/4/2021 10:05:17 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

| | | |
|---|---|--|
| Location Name: WGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.4 ft Total Depth: 53.36 ft Initial Depth to Water: 20.09 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48.6 ft Estimated Total Volume Pumped: 12 liter Flow Cell Volume: 90 ml Final Flow Rate: 60 ml/min Final Draw Down: 144 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|---|---|--|

Test Notes:

Collected at 1105. 41F overcast. DUP-2 collected. Purge start time: 0940 Total purge time: 85 min.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 2/4/2021 10:05 AM | 00:00 | 8.08 pH | 10.97 °C | 265.17 µS/cm | 3.39 mg/L | 9.54 NTU | 164.1 mV | 28.60 ft | 100.00 ml/min |
| 2/4/2021 10:10 AM | 05:00 | 7.91 pH | 13.36 °C | 235.46 µS/cm | 2.50 mg/L | 5.78 NTU | 149.0 mV | 27.20 ft | 100.00 ml/min |
| 2/4/2021 10:15 AM | 10:00 | 7.82 pH | 13.38 °C | 233.17 µS/cm | 2.44 mg/L | 5.43 NTU | 141.5 mV | 27.80 ft | 100.00 ml/min |
| 2/4/2021 10:20 AM | 15:00 | 7.78 pH | 13.55 °C | 232.74 µS/cm | 2.37 mg/L | 5.11 NTU | 122.8 mV | 28.40 ft | 100.00 ml/min |
| 2/4/2021 10:25 AM | 20:00 | 7.75 pH | 13.51 °C | 231.49 µS/cm | 2.30 mg/L | 4.58 NTU | 133.0 mV | 28.90 ft | 100.00 ml/min |
| 2/4/2021 10:30 AM | 25:00 | 7.77 pH | 11.88 °C | 224.65 µS/cm | 2.23 mg/L | 4.56 NTU | 120.2 mV | 29.50 ft | 100.00 ml/min |
| 2/4/2021 10:35 AM | 30:00 | 7.73 pH | 14.18 °C | 233.50 µS/cm | 2.27 mg/L | 4.23 NTU | 126.3 mV | 30.10 ft | 100.00 ml/min |
| 2/4/2021 10:40 AM | 35:00 | 7.73 pH | 14.51 °C | 231.28 µS/cm | 2.15 mg/L | 3.97 NTU | 123.8 mV | 30.80 ft | 100.00 ml/min |
| 2/4/2021 10:45 AM | 40:00 | 7.74 pH | 14.56 °C | 229.87 µS/cm | 2.06 mg/L | 3.69 NTU | 121.4 mV | 31.30 ft | 60.00 ml/min |
| 2/4/2021 10:50 AM | 45:00 | 7.77 pH | 13.75 °C | 223.89 µS/cm | 2.04 mg/L | 3.98 NTU | 112.6 mV | 21.70 ft | 60.00 ml/min |
| 2/4/2021 10:55 AM | 50:00 | 7.77 pH | 12.62 °C | 226.26 µS/cm | 2.09 mg/L | 3.68 NTU | 111.8 mV | 31.90 ft | 60.00 ml/min |
| 2/4/2021 11:00 AM | 55:00 | 7.77 pH | 12.33 °C | 228.32 µS/cm | 2.10 mg/L | 4.57 NTU | 117.2 mV | 32.00 ft | 60.00 ml/min |
| 2/4/2021 11:05 AM | 01:00:00 | 7.77 pH | 12.45 °C | 228.14 µS/cm | 2.14 mg/L | 4.59 NTU | 109.5 mV | 32.00 ft | 60.00 ml/min |

Samples

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

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/4/2021 11:40:28 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

| | | |
|---|--|--|
| Location Name: WGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.8 ft Total Depth: 34.78 ft Initial Depth to Water: 19.25 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 30 ft Estimated Total Volume Pumped: 6.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 108 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|---|--|--|

Test Notes:

Collected at 1230. 49F overcast.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 2/4/2021 11:40 AM | 00:00 | 7.28 pH | 13.54 °C | 391.57 µS/cm | 7.96 mg/L | 28.40 NTU | 138.6 mV | 19.40 ft | 125.00 ml/min |
| 2/4/2021 11:45 AM | 05:00 | 5.71 pH | 15.70 °C | 350.84 µS/cm | 3.99 mg/L | 25.30 NTU | 145.3 mV | 19.40 ft | 125.00 ml/min |
| 2/4/2021 11:50 AM | 10:00 | 5.47 pH | 15.87 °C | 350.20 µS/cm | 3.78 mg/L | 25.90 NTU | 157.2 mV | 19.40 ft | 125.00 ml/min |
| 2/4/2021 11:55 AM | 15:00 | 5.44 pH | 15.86 °C | 349.62 µS/cm | 3.73 mg/L | 24.50 NTU | 160.0 mV | 19.50 ft | 125.00 ml/min |
| 2/4/2021 12:00 PM | 20:00 | 5.44 pH | 15.71 °C | 350.64 µS/cm | 3.71 mg/L | 14.90 NTU | 151.1 mV | 19.50 ft | 125.00 ml/min |
| 2/4/2021 12:05 PM | 25:00 | 5.42 pH | 16.05 °C | 350.93 µS/cm | 3.74 mg/L | 11.80 NTU | 160.8 mV | 19.60 ft | 125.00 ml/min |
| 2/4/2021 12:10 PM | 30:00 | 5.43 pH | 16.03 °C | 348.58 µS/cm | 3.72 mg/L | 8.23 NTU | 151.4 mV | 19.70 ft | 125.00 ml/min |
| 2/4/2021 12:15 PM | 35:00 | 5.43 pH | 16.02 °C | 349.36 µS/cm | 3.74 mg/L | 6.87 NTU | 150.6 mV | 19.70 ft | 125.00 ml/min |
| 2/4/2021 12:20 PM | 40:00 | 5.42 pH | 16.00 °C | 348.54 µS/cm | 3.78 mg/L | 5.23 NTU | 149.9 mV | 19.80 ft | 125.00 ml/min |
| 2/4/2021 12:25 PM | 45:00 | 5.43 pH | 16.03 °C | 346.88 µS/cm | 3.80 mg/L | 5.05 NTU | 149.0 mV | 19.80 ft | 125.00 ml/min |
| 2/4/2021 12:30 PM | 50:00 | 5.42 pH | 16.09 °C | 343.86 µS/cm | 3.79 mg/L | 4.18 NTU | 157.1 mV | 19.80 ft | 125.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/4/2021 1:15:09 PM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

| | | |
|---|--|--|
| Location Name: WGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 in Top of Screen: 85.9 ft Total Depth: 95.94 ft Initial Depth to Water: 30.04 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 19 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|---|--|--|

Test Notes:

Collected at 1345. 52F light rain. FB-2 collected at 1320.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 2/4/2021 1:15 PM | 00:00 | 6.34 pH | 14.72 °C | 93.48 µS/cm | 2.03 mg/L | 4.54 NTU | 77.3 mV | 30.50 ft | 150.00 ml/min |
| 2/4/2021 1:20 PM | 05:00 | 6.29 pH | 15.71 °C | 96.29 µS/cm | 0.18 mg/L | 3.99 NTU | 67.4 mV | 31.00 ft | 150.00 ml/min |
| 2/4/2021 1:25 PM | 10:00 | 6.31 pH | 15.71 °C | 96.25 µS/cm | 0.14 mg/L | 3.71 NTU | 62.5 mV | 31.50 ft | 150.00 ml/min |
| 2/4/2021 1:30 PM | 15:00 | 6.32 pH | 15.57 °C | 96.96 µS/cm | 0.13 mg/L | 3.87 NTU | 58.7 mV | 31.50 ft | 150.00 ml/min |
| 2/4/2021 1:35 PM | 20:00 | 6.31 pH | 15.56 °C | 97.21 µS/cm | 0.14 mg/L | 3.76 NTU | 55.6 mV | 31.60 ft | 150.00 ml/min |
| 2/4/2021 1:40 PM | 25:00 | 6.31 pH | 15.53 °C | 96.97 µS/cm | 0.15 mg/L | 2.88 NTU | 52.8 mV | 31.60 ft | 150.00 ml/min |
| 2/4/2021 1:45 PM | 30:00 | 6.31 pH | 15.66 °C | 96.49 µS/cm | 0.18 mg/L | 2.47 NTU | 50.7 mV | 31.70 ft | 150.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/3/2021 2:01:16 PM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

| | | |
|---|--|--|
| Location Name: WGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 84.8 ft Total Depth: 94.84 ft Initial Depth to Water: 19.34 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 18 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|---|--|--|

Test Notes:

Collected at 1430. 49F clear.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 2/3/2021 2:01 PM | 00:00 | 6.52 pH | 15.81 °C | 152.32 µS/cm | 0.27 mg/L | 4.54 NTU | 114.6 mV | 20.60 ft | 100.00 ml/min |
| 2/3/2021 2:06 PM | 05:00 | 6.61 pH | 16.42 °C | 147.78 µS/cm | 0.15 mg/L | 3.23 NTU | 115.0 mV | 20.80 ft | 100.00 ml/min |
| 2/3/2021 2:11 PM | 10:00 | 6.66 pH | 16.54 °C | 146.50 µS/cm | 0.12 mg/L | 1.45 NTU | 111.1 mV | 21.00 ft | 100.00 ml/min |
| 2/3/2021 2:16 PM | 15:00 | 6.68 pH | 16.61 °C | 149.02 µS/cm | 0.11 mg/L | 1.32 NTU | 111.3 mV | 21.00 ft | 100.00 ml/min |
| 2/3/2021 2:21 PM | 20:00 | 6.71 pH | 16.84 °C | 149.35 µS/cm | 0.13 mg/L | 1.88 NTU | 108.2 mV | 21.10 ft | 100.00 ml/min |
| 2/3/2021 2:26 PM | 25:00 | 6.73 pH | 17.06 °C | 151.55 µS/cm | 0.14 mg/L | 1.29 NTU | 106.6 mV | 21.10 ft | 100.00 ml/min |
| 2/3/2021 2:31 PM | 30:00 | 6.75 pH | 17.10 °C | 154.11 µS/cm | 0.15 mg/L | 1.24 NTU | 105.4 mV | 21.10 ft | 100.00 ml/min |

Samples

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



Daily Instrument Calibration Log

SITE: PLANT WANSLEY - AP
 TECHNICIAN: O. FUQUEA
 WATER LEVEL: SOLNIST M101
 WATER LEVEL S/N: 322814

INSTRUMENT S/N: 741293
 INSTRUMENT TYPE: AquaTroll

| | | | | |
|------------------|------------------|-----------------------|------------------------|--|
| CAL. SOLUTION/S: | ID: <u>COND</u> | LOT #: <u>061033</u> | EXP. DATE: <u>9-21</u> | |
| | ID: <u>PH 4</u> | LOT #: <u>06E1407</u> | EXP. DATE: <u>9-22</u> | |
| | ID: <u>PH 7</u> | LOT #: <u>061615</u> | EXP. DATE: <u>9-22</u> | |
| | ID: <u>PH 10</u> | LOT #: <u>06D517</u> | EXP. DATE: <u>4-22</u> | |
| | ID: <u>ORP</u> | LOT #: <u>06J673</u> | EXP. DATE: <u>7-21</u> | <u>Midday pH check</u> |
| | ID: | LOT #: | EXP. DATE: | <u>Must be less than .10</u> |
| | ID: | LOT #: | EXP. DATE: | <u>(6.90-7.10 range)</u> |
| | | | | <u>Recalibrate if not within range</u> |

Calibration Date: 2-2-21
 RDO: 100% sat. = 106.2% Midday pH check
 PH: 4.00 = 3.96 7.00 = 7.20 10.00 = 10.75 7.0 = 7.09
 PH Recal (if needed): 4.00 = cu 7.00 = _____ 10.00 = _____ 7.0 = NA post recal check
 CONDUCTIVITY: 1360 = 1413
 ORP (mV) 243 = 240

Calibration Date: 2-3-21
 RDO: 100% sat. = 103.6% Midday pH check
 PH: 4.00 = 3.78-4.07 7.00 = 6.98-7.20 10.00 = 10.11 7.0 = 7.08
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = NA post recal check
 CONDUCTIVITY: 1315 = 1413
 ORP (mV) 257 = 240

Calibration Date: 2-4-21
 RDO: 100% sat. = 99.6% Midday pH check
 PH: 4.00 = 3.78 7.00 = 6.98 10.00 = 10.02 7.0 = 7.02
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = NA post recal check
 CONDUCTIVITY: 1438.7 = 1413
 ORP (mV) 260 = 240

Calibration Date:
 RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:
 RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: H. Auld

WATER LEVEL: Solmst 101
WATER LEVEL S/N: 49832

INSTRUMENT S/N: 714344
INSTRUMENT TYPE: AquaTroll
CAL. SOLUTIONS:
ID: pH4 LOT #: 06E1407 EXP. DATE: 09/22
ID: pH7 LOT #: 061615 EXP. DATE: 09/22
ID: pH10 LOT #: 06D851 EXP. DATE: 05/22
ID: ORP LOT #: 06H1018 EXP. DATE: 05/21
ID: COND. LOT #: 0611033 EXP. DATE: 09/21
ID: _____ LOT #: _____ EXP. DATE: _____
ID: _____ LOT #: _____ EXP. DATE: _____

Calibration Date: 2/2/21 *Midday pH rechecks*
RDO: 100% sat. = 100.62
PH: 4.00 = 3.58 7.00 = 6.66 10.00 = 9.79 *Midday pH check*
CONDUCTIVITY: 1413 = 1389 7.0 = 6.69
ORP (mV) 240 = 247.8 *(Recal done) 7=*

Calibration Date: 2/3/21
RDO: 100% sat. = 99.3
PH: 4.00 = 4.33 7.00 = 7.28 10.00 = 10.24 *Midday pH check*
CONDUCTIVITY: 1413 = 1412 7.0 = 7.14
ORP (mV) 240 = 237 *Recal done*

Calibration Date: 2/4/21
RDO: 100% sat. = 102.1
PH: 4.00 = 4.20 7.00 = 7.06 10.00 = 9.92 *Midday pH check*
CONDUCTIVITY: 1413 = 1413 7.0 = 7.11
ORP (mV) 240 = 242 *Recal done*

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ *Midday pH check*
CONDUCTIVITY: _____ 7.0 = _____
ORP (mV) _____

Calibration Date: _____
RDO: 100% sat. = _____ *Midday pH check*
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
CONDUCTIVITY: _____
ORP (mV) _____



Daily Instrument Calibration Log

SITE: _____ Plant Wansley
TECHNICIAN: H. Auld

INSTRUMENT S/N: 171200063767
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: NA
10 NTU - LOT # 10136 EXP. DATE: 08/21
20 NTU - LOT # 10139 EXP. DATE: 08/21

Calibration Date: 2/2/21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | <u>0.26</u> | NTU |
| 10.0 | <u>10.0</u> | NTU |
| 20.0 | <u>20.4</u> | NTU |

Calibration Date: 2/3/21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | <u>0.20</u> | NTU |
| 10.0 | <u>10.2</u> | NTU |
| 20.0 | <u>20.0</u> | NTU |

Calibration Date: 2/4/21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | <u>0.2</u> | NTU |
| 10.0 | <u>10.1</u> | NTU |
| 20.0 | <u>20.1</u> | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

Field Sampling Forms – March 2021

Low-Flow Test Report:

Test Date / Time: 3/11/2021 8:45:33 AM

Project: Plant Wansley- Ash Pond

Operator Name: Ryan Walker

| | | |
|--|--|--|
| Location Name: WGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119 ft Total Depth: 129.86 ft Initial Depth to Water: 24.01 ft | Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 124 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.09 ft | Instrument Used: Aqua TROLL 500 Serial Number: 602547 |
|--|--|--|

Test Notes:

Collected at 09:35. Sunny, 50 s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 3 % | +/- 0.3 | +/- 10 | +/- 10 | +/- 0.3 | |
| 3/11/2021 8:45 AM | 00:00 | 6.82 pH | 11.03 °C | 59.19 µS/cm | 9.32 mg/L | 0.56 NTU | 207.2 mV | 24.01 ft | 100.00 ml/min |
| 3/11/2021 8:50 AM | 05:00 | 5.76 pH | 12.28 °C | 44.94 µS/cm | 3.29 mg/L | 1.03 NTU | 216.1 mV | 24.10 ft | 100.00 ml/min |
| 3/11/2021 8:55 AM | 10:00 | 5.65 pH | 13.60 °C | 49.56 µS/cm | 1.23 mg/L | 1.73 NTU | 135.8 mV | 24.10 ft | 100.00 ml/min |
| 3/11/2021 9:00 AM | 15:00 | 5.36 pH | 14.70 °C | 44.08 µS/cm | 0.61 mg/L | 1.12 NTU | 148.2 mV | 24.10 ft | 100.00 ml/min |
| 3/11/2021 9:05 AM | 20:00 | 5.25 pH | 14.79 °C | 45.56 µS/cm | 1.52 mg/L | 0.94 NTU | 177.9 mV | 24.10 ft | 100.00 ml/min |
| 3/11/2021 9:10 AM | 25:00 | 5.20 pH | 14.79 °C | 45.42 µS/cm | 1.76 mg/L | 0.63 NTU | 198.1 mV | 24.10 ft | 100.00 ml/min |
| 3/11/2021 9:15 AM | 30:00 | 5.21 pH | 14.68 °C | 44.74 µS/cm | 1.73 mg/L | 0.96 NTU | 205.2 mV | 24.10 ft | 100.00 ml/min |
| 3/11/2021 9:20 AM | 35:00 | 5.23 pH | 14.43 °C | 44.13 µS/cm | 1.68 mg/L | 0.44 NTU | 209.4 mV | 24.10 ft | 100.00 ml/min |
| 3/11/2021 9:25 AM | 40:00 | 5.20 pH | 14.37 °C | 42.47 µS/cm | 1.67 mg/L | 0.33 NTU | 212.3 mV | 24.10 ft | 100.00 ml/min |
| 3/11/2021 9:30 AM | 45:00 | 5.23 pH | 14.48 °C | 43.44 µS/cm | 1.67 mg/L | 0.41 NTU | 213.5 mV | 24.10 ft | 100.00 ml/min |
| 3/11/2021 9:35 AM | 50:00 | 5.26 pH | 14.55 °C | 43.39 µS/cm | 1.67 mg/L | 0.32 NTU | 215.2 mV | 24.10 ft | 100.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/10/2021 8:24:18 AM

Project: Plant Wansley- Ash Pond

Operator Name: Ryan Walker

| | | |
|--|---|--|
| Location Name: WGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 92 ft Total Depth: 102.65 ft Initial Depth to Water: 8.82 ft | Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 98 ft Estimated Total Volume Pumped: 3600 ml Flow Cell Volume: 130 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.68 ft | Instrument Used: Aqua TROLL 500 Serial Number: 602547 |
|--|---|--|

Test Notes:

Collected at 08:55. Sunny, 50 s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 3 % | +/- 0.3 | +/- 10 | +/- 10 | +/- 0.3 | |
| 3/10/2021 8:24 AM | 00:00 | 6.34 pH | 13.84 °C | 181.43 µS/cm | 0.89 mg/L | 1.59 NTU | 32.6 mV | 8.82 ft | 120.00 ml/min |
| 3/10/2021 8:29 AM | 05:00 | 6.11 pH | 14.50 °C | 164.12 µS/cm | 0.98 mg/L | 2.10 NTU | 128.1 mV | 9.40 ft | 120.00 ml/min |
| 3/10/2021 8:34 AM | 10:00 | 6.11 pH | 14.65 °C | 161.92 µS/cm | 0.45 mg/L | 1.37 NTU | 177.8 mV | 9.40 ft | 120.00 ml/min |
| 3/10/2021 8:39 AM | 15:00 | 6.10 pH | 14.84 °C | 159.45 µS/cm | 0.20 mg/L | 1.23 NTU | 189.7 mV | 9.50 ft | 120.00 ml/min |
| 3/10/2021 8:44 AM | 20:00 | 6.04 pH | 15.09 °C | 157.55 µS/cm | 0.15 mg/L | 0.35 NTU | 195.5 mV | 9.50 ft | 120.00 ml/min |
| 3/10/2021 8:49 AM | 25:00 | 6.12 pH | 15.19 °C | 159.51 µS/cm | 0.13 mg/L | 0.19 NTU | 192.5 mV | 9.50 ft | 120.00 ml/min |
| 3/10/2021 8:54 AM | 30:00 | 6.11 pH | 15.16 °C | 159.93 µS/cm | 0.13 mg/L | 0.26 NTU | 194.3 mV | 9.50 ft | 120.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/10/2021 10:19:42 AM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

| | | |
|---|---|--|
| Location Name: WGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9 ft Total Depth: 19 ft Initial Depth to Water: 2.88 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 10500 ml Flow Cell Volume: 130 ml Final Flow Rate: 300 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 500 Serial Number: 601857 |
|---|---|--|

Test Notes: Sampled at 1054. Sunny 55 degrees.
Dup-1 taken here.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 3/10/2021 10:19 AM | 00:00 | 7.93 pH | 18.33 °C | 62.93 µS/cm | 7.72 mg/L | 4.04 NTU | 152.7 mV | 2.88 ft | 300.00 ml/min |
| 3/10/2021 10:24 AM | 05:00 | 5.48 pH | 16.46 °C | 31.28 µS/cm | 6.13 mg/L | 0.88 NTU | 192.3 mV | 2.88 ft | 300.00 ml/min |
| 3/10/2021 10:29 AM | 10:00 | 5.37 pH | 16.51 °C | 36.87 µS/cm | 6.04 mg/L | 0.31 NTU | 207.6 mV | 2.88 ft | 300.00 ml/min |
| 3/10/2021 10:34 AM | 15:00 | 5.41 pH | 16.53 °C | 35.73 µS/cm | 6.00 mg/L | 4.16 NTU | 212.9 mV | 2.88 ft | 300.00 ml/min |
| 3/10/2021 10:39 AM | 20:00 | 5.45 pH | 16.44 °C | 33.69 µS/cm | 6.06 mg/L | 5.83 NTU | 217.7 mV | 2.88 ft | 300.00 ml/min |
| 3/10/2021 10:44 AM | 25:00 | 5.47 pH | 16.55 °C | 29.45 µS/cm | 6.02 mg/L | 5.20 NTU | 222.9 mV | 2.88 ft | 300.00 ml/min |
| 3/10/2021 10:49 AM | 30:00 | 5.48 pH | 16.59 °C | 29.38 µS/cm | 6.02 mg/L | 5.37 NTU | 227.3 mV | 2.88 ft | 300.00 ml/min |
| 3/10/2021 10:54 AM | 35:00 | 5.49 pH | 16.64 °C | 30.82 µS/cm | 6.03 mg/L | 3.28 NTU | 231.0 mV | 2.88 ft | 300.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/10/2021 11:27:48 AM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

| | | |
|--|---|--|
| Location Name: WGWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.9 ft Total Depth: 73.9 ft Initial Depth to Water: 4.68 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 69 ft Estimated Total Volume Pumped: 7050 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.17 ft | Instrument Used: Aqua TROLL 500 Serial Number: 601857 |
|--|---|--|

Test Notes:

Sampled at 1217. Sunny 68 degrees

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 3/10/2021 11:27 AM | 00:00 | 5.53 pH | 25.46 °C | 38.75 µS/cm | 5.86 mg/L | 2.03 NTU | 228.9 mV | 4.68 ft | 120.00 ml/min |
| 3/10/2021 11:32 AM | 05:00 | 6.04 pH | 25.18 °C | 61.38 µS/cm | 5.37 mg/L | 42.7 NTU | 216.6 mV | 4.68 ft | 120.00 ml/min |
| 3/10/2021 11:37 AM | 10:00 | 6.45 pH | 23.69 °C | 110.02 µS/cm | 3.51 mg/L | 49.2 NTU | 205.0 mV | 4.68 ft | 120.00 ml/min |
| 3/10/2021 11:42 AM | 15:00 | 6.54 pH | 23.36 °C | 124.08 µS/cm | 2.70 mg/L | 44.5 NTU | -14.6 mV | 4.91 ft | 150.00 ml/min |
| 3/10/2021 11:47 AM | 20:00 | 6.64 pH | 23.64 °C | 127.79 µS/cm | 2.47 mg/L | 54.1 NTU | -86.6 mV | 5.09 ft | 150.00 ml/min |
| 3/10/2021 11:52 AM | 25:00 | 6.72 pH | 24.01 °C | 128.96 µS/cm | 2.43 mg/L | 46.7 NTU | -111.0 mV | 5.22 ft | 150.00 ml/min |
| 3/10/2021 11:57 AM | 30:00 | 6.80 pH | 17.49 °C | 116.64 µS/cm | 2.53 mg/L | 17.5 NTU | -78.8 mV | 5.40 ft | 150.00 ml/min |
| 3/10/2021 12:02 PM | 35:00 | 7.19 pH | 17.17 °C | 121.36 µS/cm | 0.38 mg/L | 5.72 NTU | -108.8 mV | 5.55 ft | 150.00 ml/min |
| 3/10/2021 12:07 PM | 40:00 | 7.22 pH | 17.22 °C | 120.82 µS/cm | 0.19 mg/L | 4.90 NTU | -119.0 mV | 5.69 ft | 150.00 ml/min |
| 3/10/2021 12:12 PM | 45:00 | 7.19 pH | 17.34 °C | 119.76 µS/cm | 0.15 mg/L | 4.47 NTU | -120.5 mV | 5.85 ft | 150.00 ml/min |
| 3/10/2021 12:17 PM | 50:00 | 7.19 pH | 17.23 °C | 118.95 µS/cm | 0.14 mg/L | 3.68 NTU | -120.5 mV | 5.85 ft | 150.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/10/2021 2:12:13 PM

Project: Plant Wansley - Ash Pond

Operator Name: Hunter Auld

| | | |
|---|---|--|
| Location Name: WGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13.1 ft Total Depth: 23.19 ft Initial Depth to Water: 14.2 ft | Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 46.3 liter Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.8 in | Instrument Used: Aqua TROLL 500 Serial Number: 608421 |
|---|---|--|

Test Notes:

Start Purge:1400

Sampled at 1705, cloudy 70s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 3/10/2021 2:12 PM | 00:00 | 5.57 pH | 17.22 °C | 38.25 µS/cm | 4.41 mg/L | 10.1 NTU | 123.1 mV | 14.20 ft | 250.00 ml/min |
| 3/10/2021 2:17 PM | 05:00 | 5.48 pH | 17.24 °C | 35.91 µS/cm | 4.35 mg/L | 13.4 NTU | 156.5 mV | 14.50 ft | 250.00 ml/min |
| 3/10/2021 2:22 PM | 10:00 | 5.38 pH | 16.88 °C | 33.00 µS/cm | 4.46 mg/L | 9.69 NTU | 177.5 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 2:27 PM | 15:00 | 5.37 pH | 16.69 °C | 32.33 µS/cm | 4.53 mg/L | 10.1 NTU | 191.6 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 2:32 PM | 20:00 | 5.34 pH | 17.00 °C | 32.23 µS/cm | 4.58 mg/L | 9.90 NTU | 203.3 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 2:37 PM | 25:00 | 5.31 pH | 17.02 °C | 31.28 µS/cm | 4.73 mg/L | 11.0 NTU | 212.0 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 2:42 PM | 30:00 | 5.32 pH | 16.75 °C | 30.84 µS/cm | 4.81 mg/L | 9.36 NTU | 219.3 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 2:47 PM | 35:00 | 5.31 pH | 16.81 °C | 30.58 µS/cm | 4.82 mg/L | 10.7 NTU | 223.1 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 2:52 PM | 40:00 | 5.30 pH | 16.70 °C | 30.24 µS/cm | 4.87 mg/L | 11.2 NTU | 229.0 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 2:57 PM | 45:00 | 5.31 pH | 16.68 °C | 30.70 µS/cm | 4.89 mg/L | 11.7 NTU | 232.7 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 3:02 PM | 50:00 | 5.29 pH | 16.70 °C | 30.15 µS/cm | 4.93 mg/L | 12.2 NTU | 237.5 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 3:07 PM | 55:00 | 5.28 pH | 16.64 °C | 29.92 µS/cm | 4.99 mg/L | 13.1 NTU | 241.0 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 3:12 PM | 01:00:00 | 5.28 pH | 16.36 °C | 30.04 µS/cm | 5.02 mg/L | 15.3 NTU | 243.5 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 3:17 PM | 01:05:00 | 5.27 pH | 16.66 °C | 29.64 µS/cm | 5.05 mg/L | 16.2 NTU | 247.0 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 3:22 PM | 01:10:00 | 5.23 pH | 17.00 °C | 28.43 µS/cm | 5.18 mg/L | 19.1 NTU | 253.5 mV | 14.60 ft | 250.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|-------------|-----------|----------|----------|----------|---------------|
| 3/10/2021 3:27 PM | 01:15:00 | 5.26 pH | 17.06 °C | 29.69 µS/cm | 5.06 mg/L | 21.4 NTU | 255.4 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 3:32 PM | 01:20:00 | 5.25 pH | 17.08 °C | 30.06 µS/cm | 5.02 mg/L | 34.2 NTU | 258.4 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 3:37 PM | 01:25:00 | 5.23 pH | 17.44 °C | 29.53 µS/cm | 4.97 mg/L | 20.6 NTU | 261.7 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 3:42 PM | 01:30:00 | 5.24 pH | 17.46 °C | 29.01 µS/cm | 5.20 mg/L | 12.5 NTU | 263.3 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 3:47 PM | 01:35:00 | 5.24 pH | 17.26 °C | 28.77 µS/cm | 5.14 mg/L | 9.62 NTU | 262.9 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 3:52 PM | 01:40:00 | 5.24 pH | 16.94 °C | 28.94 µS/cm | 5.12 mg/L | 9.41 NTU | 265.7 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 3:57 PM | 01:45:00 | 5.23 pH | 17.02 °C | 28.81 µS/cm | 5.11 mg/L | 8.90 NTU | 268.1 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 4:02 PM | 01:50:00 | 5.24 pH | 17.07 °C | 29.83 µS/cm | 5.01 mg/L | 10.4 NTU | 269.7 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 4:07 PM | 01:55:00 | 5.24 pH | 16.91 °C | 29.27 µS/cm | 5.06 mg/L | 9.95 NTU | 270.2 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 4:12 PM | 02:00:00 | 5.25 pH | 16.86 °C | 29.35 µS/cm | 5.04 mg/L | 10.2 NTU | 269.2 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 4:17 PM | 02:05:00 | 5.23 pH | 16.86 °C | 29.16 µS/cm | 5.10 mg/L | 9.30 NTU | 270.2 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 4:22 PM | 02:10:00 | 5.24 pH | 17.06 °C | 29.53 µS/cm | 5.05 mg/L | 9.40 NTU | 272.0 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 4:27 PM | 02:15:00 | 5.24 pH | 17.11 °C | 29.22 µS/cm | 5.05 mg/L | 9.40 NTU | 273.6 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 4:32 PM | 02:20:00 | 5.23 pH | 16.80 °C | 29.39 µS/cm | 5.07 mg/L | 9.50 NTU | 275.7 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 4:37 PM | 02:25:00 | 5.22 pH | 16.97 °C | 28.94 µS/cm | 5.07 mg/L | 9.20 NTU | 277.3 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 4:42 PM | 02:30:00 | 5.24 pH | 16.75 °C | 29.83 µS/cm | 5.01 mg/L | 9.00 NTU | 277.7 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 4:47 PM | 02:35:00 | 5.23 pH | 16.50 °C | 29.11 µS/cm | 5.08 mg/L | 9.20 NTU | 280.2 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 4:52 PM | 02:40:00 | 5.23 pH | 16.52 °C | 29.26 µS/cm | 5.08 mg/L | 9.00 NTU | 280.5 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 4:57 PM | 02:45:00 | 5.22 pH | 16.79 °C | 29.07 µS/cm | 5.08 mg/L | 9.10 NTU | 281.6 mV | 14.60 ft | 250.00 ml/min |
| 3/10/2021 5:02 PM | 02:50:00 | 5.22 pH | 16.94 °C | 28.83 µS/cm | 5.06 mg/L | 9.10 NTU | 282.7 mV | 14.60 ft | 250.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/11/2021 10:18:50 AM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

| | | |
|--|---|--|
| Location Name: WGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 94.5 ft Total Depth: 104.5 ft Initial Depth to Water: 15.34 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 99 ft Estimated Total Volume Pumped: 5200 ml Flow Cell Volume: 130 ml Final Flow Rate: 140 ml/min Final Draw Down: 1.94 ft | Instrument Used: Aqua TROLL 500 Serial Number: 601857 |
|--|---|--|

Test Notes: Sampled at 1058. Sunny 63 degrees.
FB-1 taken here at 1030.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 3/11/2021 10:18 AM | 00:00 | 7.16 pH | 16.24 °C | 160.45 µS/cm | 9.24 mg/L | 0.57 NTU | 190.6 mV | 15.34 ft | 100.00 ml/min |
| 3/11/2021 10:23 AM | 05:00 | 7.36 pH | 16.48 °C | 142.71 µS/cm | 1.31 mg/L | 0.63 NTU | -50.9 mV | 15.67 ft | 120.00 ml/min |
| 3/11/2021 10:28 AM | 10:00 | 7.81 pH | 16.49 °C | 132.64 µS/cm | 1.12 mg/L | 0.72 NTU | -78.1 mV | 15.95 ft | 120.00 ml/min |
| 3/11/2021 10:33 AM | 15:00 | 7.87 pH | 16.51 °C | 147.64 µS/cm | 0.91 mg/L | 0.24 NTU | -98.5 mV | 16.24 ft | 140.00 ml/min |
| 3/11/2021 10:38 AM | 20:00 | 7.90 pH | 16.49 °C | 137.88 µS/cm | 0.58 mg/L | 0.26 NTU | -111.9 mV | 16.50 ft | 140.00 ml/min |
| 3/11/2021 10:43 AM | 25:00 | 7.91 pH | 16.54 °C | 136.88 µS/cm | 0.54 mg/L | 0.57 NTU | -118.9 mV | 16.76 ft | 140.00 ml/min |
| 3/11/2021 10:48 AM | 30:00 | 7.92 pH | 16.54 °C | 125.93 µS/cm | 0.49 mg/L | 1.24 NTU | -123.3 mV | 16.92 ft | 140.00 ml/min |
| 3/11/2021 10:53 AM | 35:00 | 7.92 pH | 16.58 °C | 124.24 µS/cm | 0.48 mg/L | 0.16 NTU | -125.7 mV | 17.10 ft | 140.00 ml/min |
| 3/11/2021 10:58 AM | 40:00 | 7.93 pH | 16.60 °C | 131.21 µS/cm | 0.43 mg/L | 0.37 NTU | -127.7 mV | 17.28 ft | 140.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/10/2021 1:10:22 PM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

| | | |
|---|---|--|
| Location Name: WGWA-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.6 ft Total Depth: 39.6 ft Initial Depth to Water: 25.21 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 7700 ml Flow Cell Volume: 130 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.11 ft | Instrument Used: Aqua TROLL 500 Serial Number: 601857 |
|---|---|--|

Test Notes:

Sampled at 1345. Sunny 72 degrees

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 3/10/2021 1:10 PM | 00:00 | 5.94 pH | 22.18 °C | 25.42 µS/cm | 6.71 mg/L | 4.92 NTU | 113.1 mV | 25.21 ft | 220.00 ml/min |
| 3/10/2021 1:15 PM | 05:00 | 5.23 pH | 17.92 °C | 26.39 µS/cm | 7.40 mg/L | 3.20 NTU | 172.0 mV | 25.32 ft | 220.00 ml/min |
| 3/10/2021 1:20 PM | 10:00 | 5.12 pH | 17.71 °C | 26.42 µS/cm | 7.44 mg/L | 5.88 NTU | 190.3 mV | 25.32 ft | 220.00 ml/min |
| 3/10/2021 1:25 PM | 15:00 | 5.05 pH | 17.93 °C | 25.41 µS/cm | 7.43 mg/L | 5.37 NTU | 201.8 mV | 25.32 ft | 220.00 ml/min |
| 3/10/2021 1:30 PM | 20:00 | 5.02 pH | 17.89 °C | 25.30 µS/cm | 7.36 mg/L | 4.84 NTU | 209.3 mV | 25.32 ft | 220.00 ml/min |
| 3/10/2021 1:35 PM | 25:00 | 4.99 pH | 17.94 °C | 25.30 µS/cm | 7.37 mg/L | 5.67 NTU | 214.8 mV | 25.32 ft | 220.00 ml/min |
| 3/10/2021 1:40 PM | 30:00 | 4.96 pH | 18.07 °C | 25.29 µS/cm | 7.36 mg/L | 6.48 NTU | 219.4 mV | 25.32 ft | 220.00 ml/min |
| 3/10/2021 1:45 PM | 35:00 | 4.96 pH | 18.18 °C | 25.27 µS/cm | 7.33 mg/L | 4.35 NTU | 222.2 mV | 25.32 ft | 220.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/10/2021 2:27:49 PM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

| | | |
|--|---|--|
| Location Name: WGWA-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.6 ft Total Depth: 39.6 ft Initial Depth to Water: 20.36 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 8900 ml Flow Cell Volume: 130 ml Final Flow Rate: 120 ml/min Final Draw Down: 3.36 ft | Instrument Used: Aqua TROLL 500 Serial Number: 601857 |
|--|---|--|

Test Notes:

Sampled at 1542. Partly cloudy 73 degrees

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 3/10/2021 2:27 PM | 00:00 | 6.52 pH | 21.35 °C | 82.04 µS/cm | 7.72 mg/L | 0.36 NTU | 165.8 mV | 20.36 ft | 100.00 ml/min |
| 3/10/2021 2:32 PM | 05:00 | 6.72 pH | 18.01 °C | 120.46 µS/cm | 2.18 mg/L | 0.33 NTU | -55.5 mV | 21.70 ft | 120.00 ml/min |
| 3/10/2021 2:37 PM | 10:00 | 6.70 pH | 17.79 °C | 115.92 µS/cm | 1.82 mg/L | 0.17 NTU | -67.5 mV | 22.30 ft | 120.00 ml/min |
| 3/10/2021 2:42 PM | 15:00 | 6.27 pH | 17.65 °C | 98.66 µS/cm | 3.11 mg/L | 0.24 NTU | -39.6 mV | 22.40 ft | 120.00 ml/min |
| 3/10/2021 2:47 PM | 20:00 | 6.08 pH | 17.59 °C | 95.51 µS/cm | 2.99 mg/L | 0.22 NTU | -19.9 mV | 22.50 ft | 120.00 ml/min |
| 3/10/2021 2:52 PM | 25:00 | 5.99 pH | 17.61 °C | 93.07 µS/cm | 2.71 mg/L | 0.21 NTU | -2.2 mV | 22.61 ft | 120.00 ml/min |
| 3/10/2021 2:57 PM | 30:00 | 5.93 pH | 17.49 °C | 93.47 µS/cm | 2.15 mg/L | 0.22 NTU | 13.2 mV | 22.76 ft | 120.00 ml/min |
| 3/10/2021 3:02 PM | 35:00 | 5.92 pH | 17.63 °C | 93.62 µS/cm | 1.67 mg/L | 0.18 NTU | 23.8 mV | 22.87 ft | 120.00 ml/min |
| 3/10/2021 3:07 PM | 40:00 | 5.90 pH | 17.55 °C | 92.36 µS/cm | 1.35 mg/L | 0.18 NTU | 33.3 mV | 22.99 ft | 120.00 ml/min |
| 3/10/2021 3:12 PM | 45:00 | 5.86 pH | 17.46 °C | 90.64 µS/cm | 1.08 mg/L | 0.21 NTU | 41.2 mV | 23.11 ft | 120.00 ml/min |
| 3/10/2021 3:17 PM | 50:00 | 5.86 pH | 17.49 °C | 87.31 µS/cm | 1.44 mg/L | 0.17 NTU | 46.7 mV | 23.20 ft | 120.00 ml/min |
| 3/10/2021 3:22 PM | 55:00 | 5.82 pH | 17.45 °C | 82.83 µS/cm | 1.98 mg/L | 0.28 NTU | 56.4 mV | 23.31 ft | 120.00 ml/min |
| 3/10/2021 3:27 PM | 01:00:00 | 5.80 pH | 17.56 °C | 80.57 µS/cm | 2.43 mg/L | 0.31 NTU | 65.2 mV | 23.40 ft | 120.00 ml/min |
| 3/10/2021 3:32 PM | 01:05:00 | 5.83 pH | 17.73 °C | 77.99 µS/cm | 2.82 mg/L | 0.24 NTU | 70.3 mV | 23.50 ft | 120.00 ml/min |
| 3/10/2021 3:37 PM | 01:10:00 | 5.81 pH | 17.55 °C | 76.14 µS/cm | 2.86 mg/L | 0.22 NTU | 76.6 mV | 23.61 ft | 120.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|-------------|-----------|----------|---------|----------|---------------|
| 3/10/2021 3:42 PM | 01:15:00 | 5.80 pH | 17.52 °C | 76.47 µS/cm | 2.98 mg/L | 0.18 NTU | 80.9 mV | 23.72 ft | 120.00 ml/min |
|----------------------|----------|---------|----------|-------------|-----------|----------|---------|----------|---------------|

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/11/2021 11:40:53 AM

Project: Plant Wansley- Ash Pond

Operator Name: Ryan Walker

| | | |
|---|---|--|
| Location Name: WGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49 ft Total Depth: 59.63 ft Initial Depth to Water: 4.34 ft | Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 54 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.46 ft | Instrument Used: Aqua TROLL 500 Serial Number: 602547 |
|---|---|--|

Test Notes:

Collected at 12:12. Sunny 60 s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 3 % | +/- 0.3 | +/- 10 | +/- 10 | +/- 0.3 | |
| 3/11/2021 11:40 AM | 00:00 | 5.82 pH | 16.03 °C | 911.71 µS/cm | 4.43 mg/L | 1.93 NTU | 200.5 mV | 4.34 ft | 100.00 ml/min |
| 3/11/2021 11:45 AM | 05:00 | 5.70 pH | 16.08 °C | 898.67 µS/cm | 2.50 mg/L | 2.45 NTU | 205.8 mV | 4.80 ft | 100.00 ml/min |
| 3/11/2021 11:50 AM | 10:00 | 5.52 pH | 16.23 °C | 909.38 µS/cm | 2.10 mg/L | 1.78 NTU | 212.3 mV | 4.80 ft | 100.00 ml/min |
| 3/11/2021 11:55 AM | 15:00 | 5.44 pH | 16.44 °C | 915.78 µS/cm | 1.94 mg/L | 1.22 NTU | 217.0 mV | 4.80 ft | 100.00 ml/min |
| 3/11/2021 12:00 PM | 20:00 | 5.39 pH | 16.34 °C | 916.51 µS/cm | 1.82 mg/L | 1.27 NTU | 219.7 mV | 4.80 ft | 100.00 ml/min |
| 3/11/2021 12:05 PM | 25:00 | 5.36 pH | 16.62 °C | 917.67 µS/cm | 1.71 mg/L | 1.46 NTU | 221.9 mV | 4.80 ft | 100.00 ml/min |
| 3/11/2021 12:10 PM | 30:00 | 5.35 pH | 16.61 °C | 918.47 µS/cm | 1.58 mg/L | 1.52 NTU | 224.4 mV | 4.80 ft | 100.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/12/2021 9:40:30 AM

Project: Plant Wansley - Ash Pond

Operator Name: Hunter Auld

| | | |
|--|---|--|
| Location Name: WGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.4 ft Total Depth: 61.42 ft Initial Depth to Water: 19.58 ft | Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 56 ft Estimated Total Volume Pumped: 5.2 liter Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 27.8 in | Instrument Used: Aqua TROLL 500 Serial Number: 608421 |
|--|---|--|

Test Notes:

Sampled at 1007, sunny 60s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 3/12/2021 9:40 AM | 00:00 | 6.12 pH | 18.49 °C | 177.45 µS/cm | 2.76 mg/L | 1.78 NTU | 213.2 mV | 19.58 ft | 100.00 ml/min |
| 3/12/2021 9:45 AM | 05:00 | 5.87 pH | 18.63 °C | 176.81 µS/cm | 1.47 mg/L | 3.55 NTU | 211.2 mV | 21.70 ft | 100.00 ml/min |
| 3/12/2021 9:50 AM | 10:00 | 5.87 pH | 18.79 °C | 176.38 µS/cm | 1.41 mg/L | 2.19 NTU | 207.3 mV | 21.70 ft | 100.00 ml/min |
| 3/12/2021 9:55 AM | 15:00 | 5.88 pH | 18.83 °C | 176.32 µS/cm | 1.39 mg/L | 4.98 NTU | 204.2 mV | 21.80 ft | 100.00 ml/min |
| 3/12/2021 10:00 AM | 20:00 | 5.88 pH | 19.10 °C | 175.12 µS/cm | 1.33 mg/L | 3.59 NTU | 203.5 mV | 21.80 ft | 100.00 ml/min |
| 3/12/2021 10:05 AM | 25:00 | 5.88 pH | 19.10 °C | 176.61 µS/cm | 1.37 mg/L | 2.30 NTU | 202.6 mV | 21.90 ft | 100.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/11/2021 3:38:29 PM

Project: Plant Wansley- Ash Pond

Operator Name: Ryan Walker

| | | |
|---|--|--|
| Location Name: WGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 138 ft Total Depth: 148.98 ft Initial Depth to Water: 14.65 ft | Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 143 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.65 ft | Instrument Used: Aqua TROLL 500 Serial Number: 602547 |
|---|--|--|

Test Notes:

Collected at 16:25. Sunny, 60 s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 3 % | +/- 0.3 | +/- 10 | +/- 10 | +/- 0.3 | |
| 3/11/2021 3:38 PM | 00:00 | 7.29 pH | 24.63 °C | 29.31 µS/cm | 8.06 mg/L | 0.38 NTU | 64.8 mV | 14.65 ft | 100.00 ml/min |
| 3/11/2021 3:43 PM | 05:00 | 6.74 pH | 18.73 °C | 82.46 µS/cm | 4.34 mg/L | 1.22 NTU | 90.5 mV | 15.90 ft | 100.00 ml/min |
| 3/11/2021 3:48 PM | 10:00 | 6.47 pH | 17.80 °C | 80.59 µS/cm | 0.91 mg/L | 1.37 NTU | 108.1 mV | 15.50 ft | 100.00 ml/min |
| 3/11/2021 3:53 PM | 15:00 | 6.43 pH | 17.45 °C | 79.92 µS/cm | 1.33 mg/L | 1.23 NTU | 116.9 mV | 15.80 ft | 100.00 ml/min |
| 3/11/2021 3:58 PM | 20:00 | 6.45 pH | 17.55 °C | 80.22 µS/cm | 2.28 mg/L | 1.11 NTU | 123.0 mV | 15.90 ft | 100.00 ml/min |
| 3/11/2021 4:03 PM | 25:00 | 6.50 pH | 17.42 °C | 81.44 µS/cm | 3.67 mg/L | 1.08 NTU | 127.5 mV | 16.00 ft | 100.00 ml/min |
| 3/11/2021 4:08 PM | 30:00 | 6.54 pH | 17.30 °C | 82.40 µS/cm | 4.67 mg/L | 1.12 NTU | 131.6 mV | 16.10 ft | 100.00 ml/min |
| 3/11/2021 4:13 PM | 35:00 | 6.54 pH | 17.20 °C | 82.59 µS/cm | 5.02 mg/L | 1.17 NTU | 135.7 mV | 16.20 ft | 100.00 ml/min |
| 3/11/2021 4:18 PM | 40:00 | 6.53 pH | 17.07 °C | 82.50 µS/cm | 5.10 mg/L | 1.35 NTU | 140.0 mV | 16.30 ft | 100.00 ml/min |
| 3/11/2021 4:23 PM | 45:00 | 6.56 pH | 17.28 °C | 82.68 µS/cm | 5.12 mg/L | 1.22 NTU | 140.8 mV | 16.30 ft | 100.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/12/2021 11:24:16 PM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

| | | |
|--|---|--|
| Location Name: WGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.5 ft Total Depth: 49.5 ft Initial Depth to Water: 20.11 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 44 ft Estimated Total Volume Pumped: 4125 ml Flow Cell Volume: 130 ml Final Flow Rate: 125 ml/min Final Draw Down: 5.16 ft | Instrument Used: Aqua TROLL 500 Serial Number: 601857 |
|--|---|--|

Test Notes:

Sampled at 1154. Sunny 72 degrees

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 3/12/2021 11:24 AM | 00:00 | 7.07 pH | 20.92 °C | 37.73 µS/cm | 7.90 mg/L | 4.75 NTU | 130.6 mV | 20.11 ft | 150.00 ml/min |
| 3/12/2021 11:29 AM | 05:00 | 5.40 pH | 17.69 °C | 31.21 µS/cm | 8.49 mg/L | 33.4 NTU | 235.4 mV | 21.13 ft | 150.00 ml/min |
| 3/12/2021 11:34 AM | 10:00 | 5.29 pH | 17.58 °C | 30.68 µS/cm | 8.35 mg/L | 20.2 NTU | 264.3 mV | 24.00 ft | 150.00 ml/min |
| 3/12/2021 11:39 AM | 15:00 | 5.30 pH | 17.67 °C | 31.02 µS/cm | 8.37 mg/L | 15.6 NTU | 276.2 mV | 24.77 ft | 125.00 ml/min |
| 3/12/2021 11:44 AM | 20:00 | 5.34 pH | 17.94 °C | 31.51 µS/cm | 8.34 mg/L | 8.79 NTU | 282.0 mV | 25.10 ft | 125.00 ml/min |
| 3/12/2021 11:49 AM | 25:00 | 5.43 pH | 18.25 °C | 32.05 µS/cm | 8.34 mg/L | 5.36 NTU | 283.0 mV | 25.22 ft | 125.00 ml/min |
| 3/12/2021 11:54 AM | 30:00 | 5.43 pH | 18.10 °C | 32.48 µS/cm | 8.36 mg/L | 3.10 NTU | 286.1 mV | 25.27 ft | 125.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/12/2021 10:09:29 AM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

| | | |
|--|--|--|
| Location Name: WGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.57 ft Total Depth: 76.57 ft Initial Depth to Water: 19.87 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 10600 ml Flow Cell Volume: 130 ml Final Flow Rate: 220 ml/min Final Draw Down: 1.19 ft | Instrument Used: Aqua TROLL 500 Serial Number: 601857 |
|--|--|--|

Test Notes:

Sampled at 1059. Sunny 69 degrees

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 3/12/2021 10:09 AM | 00:00 | 6.61 pH | 17.93 °C | 102.99 µS/cm | 5.10 mg/L | 9.52 NTU | 238.4 mV | 19.87 ft | 140.00 ml/min |
| 3/12/2021 10:14 AM | 05:00 | 6.33 pH | 17.27 °C | 86.70 µS/cm | 0.72 mg/L | 751 NTU | 91.2 mV | 20.51 ft | 220.00 ml/min |
| 3/12/2021 10:19 AM | 10:00 | 6.43 pH | 17.40 °C | 88.62 µS/cm | 0.20 mg/L | 143 NTU | 79.1 mV | 20.59 ft | 220.00 ml/min |
| 3/12/2021 10:24 AM | 15:00 | 6.50 pH | 17.32 °C | 92.10 µS/cm | 0.17 mg/L | 106 NTU | 71.5 mV | 20.65 ft | 220.00 ml/min |
| 3/12/2021 10:29 AM | 20:00 | 6.51 pH | 17.29 °C | 98.15 µS/cm | 0.19 mg/L | 61.8 NTU | 67.7 mV | 20.71 ft | 220.00 ml/min |
| 3/12/2021 10:34 AM | 25:00 | 6.57 pH | 17.28 °C | 96.11 µS/cm | 0.18 mg/L | 47.3 NTU | 62.3 mV | 20.78 ft | 220.00 ml/min |
| 3/12/2021 10:39 AM | 30:00 | 6.60 pH | 17.32 °C | 97.27 µS/cm | 0.18 mg/L | 37.1 NTU | 59.2 mV | 20.84 ft | 220.00 ml/min |
| 3/12/2021 10:44 AM | 35:00 | 6.63 pH | 17.39 °C | 92.98 µS/cm | 0.17 mg/L | 22.9 NTU | 57.1 mV | 20.90 ft | 220.00 ml/min |
| 3/12/2021 10:49 AM | 40:00 | 6.66 pH | 17.42 °C | 108.36 µS/cm | 0.17 mg/L | 9.42 NTU | 55.1 mV | 20.95 ft | 220.00 ml/min |
| 3/12/2021 10:54 AM | 45:00 | 6.66 pH | 17.34 °C | 110.53 µS/cm | 0.17 mg/L | 6.35 NTU | 54.8 mV | 21.00 ft | 220.00 ml/min |
| 3/12/2021 10:59 AM | 50:00 | 6.66 pH | 17.31 °C | 110.33 µS/cm | 0.18 mg/L | 4.73 NTU | 54.8 mV | 21.06 ft | 220.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/11/2021 1:23:36 PM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

| | | |
|--|---|--|
| Location Name: WGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.55 ft Total Depth: 95.55 ft Initial Depth to Water: 19.46 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 3600 ml Flow Cell Volume: 130 ml Final Flow Rate: 120 ml/min Final Draw Down: 3.04 ft | Instrument Used: Aqua TROLL 500 Serial Number: 601857 |
|--|---|--|

Test Notes:

Sampled at 1353. Sunny 72 degrees

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 3/11/2021 1:23 PM | 00:00 | 6.74 pH | 22.84 °C | 53.47 µS/cm | 7.50 mg/L | 0.86 NTU | 95.7 mV | 19.46 ft | 120.00 ml/min |
| 3/11/2021 1:28 PM | 05:00 | 5.95 pH | 18.65 °C | 56.34 µS/cm | 2.53 mg/L | 2.95 NTU | 135.1 mV | 20.22 ft | 120.00 ml/min |
| 3/11/2021 1:33 PM | 10:00 | 5.99 pH | 18.42 °C | 58.41 µS/cm | 3.06 mg/L | 6.94 NTU | 145.2 mV | 21.88 ft | 120.00 ml/min |
| 3/11/2021 1:38 PM | 15:00 | 5.95 pH | 18.02 °C | 57.79 µS/cm | 3.01 mg/L | 5.85 NTU | 152.3 mV | 22.29 ft | 120.00 ml/min |
| 3/11/2021 1:43 PM | 20:00 | 5.95 pH | 17.93 °C | 57.75 µS/cm | 2.97 mg/L | 4.97 NTU | 156.4 mV | 22.37 ft | 120.00 ml/min |
| 3/11/2021 1:48 PM | 25:00 | 5.94 pH | 18.03 °C | 57.86 µS/cm | 2.87 mg/L | 4.17 NTU | 159.8 mV | 22.46 ft | 120.00 ml/min |
| 3/11/2021 1:53 PM | 30:00 | 5.95 pH | 18.03 °C | 58.22 µS/cm | 2.83 mg/L | 3.67 NTU | 162.1 mV | 22.50 ft | 120.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/11/2021 2:31:17 PM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

| | | |
|---|---|--|
| Location Name: WGWC-14A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.08 ft Total Depth: 43.08 ft Initial Depth to Water: 18.53 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 6750 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 2.97 ft | Instrument Used: Aqua TROLL 500 Serial Number: 601857 |
|---|---|--|

Test Notes:

Sampled at 1516. Sunny 73 degrees

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 3/11/2021 2:31 PM | 00:00 | 5.96 pH | 23.92 °C | 28.56 µS/cm | 6.58 mg/L | 1.62 NTU | 162.1 mV | 18.53 ft | 150.00 ml/min |
| 3/11/2021 2:36 PM | 05:00 | 5.39 pH | 18.43 °C | 25.63 µS/cm | 5.46 mg/L | 1.24 NTU | 202.7 mV | 19.46 ft | 150.00 ml/min |
| 3/11/2021 2:41 PM | 10:00 | 5.28 pH | 18.23 °C | 25.55 µS/cm | 5.42 mg/L | 0.63 NTU | 220.7 mV | 20.23 ft | 150.00 ml/min |
| 3/11/2021 2:46 PM | 15:00 | 5.20 pH | 18.45 °C | 25.56 µS/cm | 5.38 mg/L | 1.28 NTU | 232.8 mV | 20.91 ft | 150.00 ml/min |
| 3/11/2021 2:51 PM | 20:00 | 5.07 pH | 18.60 °C | 27.46 µS/cm | 3.48 mg/L | 0.88 NTU | 242.7 mV | 20.98 ft | 150.00 ml/min |
| 3/11/2021 2:56 PM | 25:00 | 5.04 pH | 18.63 °C | 28.87 µS/cm | 2.45 mg/L | 1.04 NTU | 248.9 mV | 21.10 ft | 150.00 ml/min |
| 3/11/2021 3:01 PM | 30:00 | 5.05 pH | 18.31 °C | 30.23 µS/cm | 1.83 mg/L | 3.87 NTU | 249.5 mV | 21.21 ft | 150.00 ml/min |
| 3/11/2021 3:06 PM | 35:00 | 5.05 pH | 18.13 °C | 31.04 µS/cm | 1.47 mg/L | 4.50 NTU | 249.6 mV | 21.30 ft | 150.00 ml/min |
| 3/11/2021 3:11 PM | 40:00 | 5.09 pH | 18.24 °C | 31.43 µS/cm | 1.65 mg/L | 4.88 NTU | 246.5 mV | 21.41 ft | 150.00 ml/min |
| 3/11/2021 3:16 PM | 45:00 | 5.10 pH | 18.15 °C | 31.78 µS/cm | 1.54 mg/L | 4.31 NTU | 243.0 mV | 21.50 ft | 150.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/12/2021 11:09:52 AM

Project: Plant Wansley - Ash Pond

Operator Name: Hunter Auld

| | | |
|---|---|--|
| Location Name: WGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.3 ft Total Depth: 53.36 ft Initial Depth to Water: 20.13 ft | Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48.3 ft Estimated Total Volume Pumped: 5.2 liter Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 16.4 in | Instrument Used: Aqua TROLL 500 Serial Number: 608421 |
|---|---|--|

Test Notes:

Sampled at 1157, sunny 70s, FB-2 here at 1205.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 3/12/2021 11:09 AM | 00:00 | 7.02 pH | 20.58 °C | 133.07 µS/cm | 8.52 mg/L | 0.13 NTU | 164.9 mV | 20.13 ft | 100.00 ml/min |
| 3/12/2021 11:14 AM | 05:00 | 7.12 pH | 17.36 °C | 207.78 µS/cm | 3.28 mg/L | 0.30 NTU | 144.7 mV | 20.70 ft | 100.00 ml/min |
| 3/12/2021 11:19 AM | 10:00 | 7.33 pH | 17.57 °C | 224.05 µS/cm | 2.20 mg/L | 0.93 NTU | 71.9 mV | 20.80 ft | 100.00 ml/min |
| 3/12/2021 11:24 AM | 15:00 | 7.54 pH | 18.05 °C | 227.49 µS/cm | 1.61 mg/L | 0.21 NTU | 19.1 mV | 20.90 ft | 100.00 ml/min |
| 3/12/2021 11:29 AM | 20:00 | 7.65 pH | 17.79 °C | 220.79 µS/cm | 1.73 mg/L | 1.20 NTU | 7.2 mV | 21.00 ft | 100.00 ml/min |
| 3/12/2021 11:34 AM | 25:00 | 7.69 pH | 18.01 °C | 215.23 µS/cm | 2.35 mg/L | 1.10 NTU | 8.6 mV | 21.10 ft | 100.00 ml/min |
| 3/12/2021 11:39 AM | 30:00 | 7.70 pH | 17.83 °C | 209.47 µS/cm | 2.85 mg/L | 0.60 NTU | 18.3 mV | 21.20 ft | 100.00 ml/min |
| 3/12/2021 11:44 AM | 35:00 | 7.71 pH | 18.40 °C | 207.77 µS/cm | 3.19 mg/L | 0.50 NTU | 25.3 mV | 21.30 ft | 100.00 ml/min |
| 3/12/2021 11:49 AM | 40:00 | 7.71 pH | 18.61 °C | 206.45 µS/cm | 3.33 mg/L | 0.40 NTU | 30.5 mV | 21.40 ft | 100.00 ml/min |
| 3/12/2021 11:54 AM | 45:00 | 7.72 pH | 18.57 °C | 205.88 µS/cm | 3.33 mg/L | 0.60 NTU | 34.4 mV | 21.50 ft | 100.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/11/2021 1:20:36 PM

Project: Plant Wansley - Ash Pond

Operator Name: Hunter Auld

| | | |
|---|--|--|
| Location Name: WGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.7 ft Total Depth: 34.78 ft Initial Depth to Water: 19.09 ft | Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 29.7 ft Estimated Total Volume Pumped: 4.8 liter Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 2.5 in | Instrument Used: Aqua TROLL 500 Serial Number: 608421 |
|---|--|--|

Test Notes:

Sampled at 1347, sunny 70s, EB-2 here at 1355- gloves.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 3/11/2021 1:20 PM | 00:00 | 5.28 pH | 17.29 °C | 350.27 µS/cm | 4.56 mg/L | 4.40 NTU | 129.1 mV | 19.09 ft | 125.00 ml/min |
| 3/11/2021 1:25 PM | 05:00 | 5.25 pH | 17.07 °C | 350.97 µS/cm | 3.82 mg/L | 4.23 NTU | 153.2 mV | 19.30 ft | 150.00 ml/min |
| 3/11/2021 1:30 PM | 10:00 | 5.22 pH | 16.91 °C | 351.12 µS/cm | 3.75 mg/L | 3.76 NTU | 168.7 mV | 19.30 ft | 150.00 ml/min |
| 3/11/2021 1:35 PM | 15:00 | 5.22 pH | 17.07 °C | 350.89 µS/cm | 3.71 mg/L | 2.50 NTU | 179.4 mV | 19.30 ft | 150.00 ml/min |
| 3/11/2021 1:40 PM | 20:00 | 5.22 pH | 16.95 °C | 351.38 µS/cm | 3.72 mg/L | 1.80 NTU | 187.9 mV | 19.30 ft | 150.00 ml/min |
| 3/11/2021 1:45 PM | 25:00 | 5.21 pH | 17.02 °C | 352.42 µS/cm | 3.76 mg/L | 1.20 NTU | 193.4 mV | 19.30 ft | 150.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/11/2021 11:41:19 AM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

| | | |
|---|---|--|
| Location Name: WGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 in Top of Screen: 85.9 ft Total Depth: 95.94 ft Initial Depth to Water: 30.04 ft | Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 2.98 ft | Instrument Used: Aqua TROLL 500 Serial Number: 601857 |
|---|---|--|

Test Notes:

Sampled at 1210. Sunny 68 degrees

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 3/11/2021 11:41 AM | 00:00 | 7.19 pH | 19.66 °C | 73.27 µS/cm | 7.72 mg/L | 0.61 NTU | 69.7 mV | 30.04 ft | 200.00 ml/min |
| 3/11/2021 11:46 AM | 05:00 | 5.88 pH | 17.45 °C | 78.49 µS/cm | 0.56 mg/L | 1.00 NTU | 28.3 mV | 30.91 ft | 200.00 ml/min |
| 3/11/2021 11:51 AM | 10:00 | 5.89 pH | 17.50 °C | 77.48 µS/cm | 0.70 mg/L | 0.59 NTU | 49.8 mV | 32.40 ft | 200.00 ml/min |
| 3/11/2021 11:56 AM | 15:00 | 5.91 pH | 17.40 °C | 77.88 µS/cm | 0.62 mg/L | 0.79 NTU | 43.8 mV | 32.68 ft | 200.00 ml/min |
| 3/11/2021 12:01 PM | 20:00 | 5.93 pH | 17.41 °C | 78.16 µS/cm | 0.43 mg/L | 0.62 NTU | 38.2 mV | 32.82 ft | 200.00 ml/min |
| 3/11/2021 12:06 PM | 25:00 | 5.95 pH | 17.48 °C | 78.26 µS/cm | 0.34 mg/L | 0.47 NTU | 35.7 mV | 32.90 ft | 200.00 ml/min |
| 3/11/2021 12:11 PM | 30:00 | 5.96 pH | 17.47 °C | 75.35 µS/cm | 0.29 mg/L | 0.59 NTU | 34.1 mV | 33.02 ft | 200.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/11/2021 1:58:34 PM

Project: Plant Wansley- Ash Pond

Operator Name: Ryan Walker

| | | |
|---|--|--|
| Location Name: WGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 84 ft Total Depth: 94.84 ft Initial Depth to Water: 18.96 ft | Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 89 ft Estimated Total Volume Pumped: 12250 ml Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.14 ft | Instrument Used: Aqua TROLL 500 Serial Number: 602547 |
|---|--|--|

Test Notes:

Collected at 14:55. Sunny, 70 s. Dup-2 here.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 3 % | +/- 0.3 | +/- 10 | +/- 10 | +/- 0.3 | |
| 3/11/2021 1:58 PM | 00:00 | 6.97 pH | 17.88 °C | 184.65 µS/cm | 1.65 mg/L | 0.33 NTU | -85.3 mV | 18.96 ft | 200.00 ml/min |
| 3/11/2021 2:03 PM | 05:00 | 6.94 pH | 17.95 °C | 169.54 µS/cm | 0.36 mg/L | 0.73 NTU | -31.9 mV | 21.00 ft | 200.00 ml/min |
| 3/11/2021 2:08 PM | 10:00 | 6.89 pH | 18.05 °C | 168.46 µS/cm | 0.12 mg/L | 0.68 NTU | -3.9 mV | 21.00 ft | 200.00 ml/min |
| 3/11/2021 2:13 PM | 15:00 | 6.93 pH | 17.93 °C | 168.85 µS/cm | 0.09 mg/L | 0.55 NTU | 11.3 mV | 21.00 ft | 200.00 ml/min |
| 3/11/2021 2:18 PM | 20:00 | 6.96 pH | 18.04 °C | 170.84 µS/cm | 0.09 mg/L | 0.42 NTU | 24.7 mV | 21.00 ft | 200.00 ml/min |
| 3/11/2021 2:23 PM | 25:00 | 6.94 pH | 17.92 °C | 173.28 µS/cm | 0.09 mg/L | 0.57 NTU | 37.2 mV | 21.10 ft | 200.00 ml/min |
| 3/11/2021 2:28 PM | 30:00 | 6.99 pH | 17.87 °C | 178.20 µS/cm | 0.10 mg/L | 0.50 NTU | 44.9 mV | 21.10 ft | 250.00 ml/min |
| 3/11/2021 2:33 PM | 35:00 | 7.01 pH | 18.28 °C | 184.74 µS/cm | 0.10 mg/L | 0.63 NTU | 52.5 mV | 21.10 ft | 250.00 ml/min |
| 3/11/2021 2:38 PM | 40:00 | 7.04 pH | 17.72 °C | 190.36 µS/cm | 0.13 mg/L | 0.50 NTU | 55.1 mV | 21.10 ft | 250.00 ml/min |
| 3/11/2021 2:43 PM | 45:00 | 7.09 pH | 17.98 °C | 194.08 µS/cm | 0.12 mg/L | 0.67 NTU | 47.2 mV | 21.10 ft | 250.00 ml/min |
| 3/11/2021 2:48 PM | 50:00 | 7.07 pH | 18.21 °C | 196.69 µS/cm | 0.13 mg/L | 0.61 NTU | 40.7 mV | 21.10 ft | 250.00 ml/min |
| 3/11/2021 2:53 PM | 55:00 | 7.12 pH | 17.93 °C | 199.82 µS/cm | 0.14 mg/L | 0.59 NTU | 39.9 mV | 21.10 ft | 250.00 ml/min |

Samples

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

Low-Flow Test Report:

NOTE:
PZ-22 has been reclassified as WGWC-20

Test Date / Time: 3/8/2021 2:35:51 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Hunter Auld

| | | |
|---|--|--|
| Location Name: PZ-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.8 ft Total Depth: 42.85 ft Initial Depth to Water: 25.86 ft | Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 36 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 6.5 in | Instrument Used: Aqua TROLL 500 Serial Number: 608421 |
|---|--|--|

Test Notes:

Sampled at 1525, sunny 60s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 3/8/2021 2:35 PM | 00:00 | 5.56 pH | 19.75 °C | 715.57 µS/cm | 6.50 mg/L | 9.44 NTU | 195.3 mV | 25.86 ft | 150.00 ml/min |
| 3/8/2021 2:40 PM | 05:00 | 5.55 pH | 19.48 °C | 724.97 µS/cm | 5.03 mg/L | 22.0 NTU | 211.0 mV | 26.20 ft | 150.00 ml/min |
| 3/8/2021 2:45 PM | 10:00 | 5.55 pH | 19.41 °C | 724.55 µS/cm | 4.94 mg/L | 8.37 NTU | 219.2 mV | 26.20 ft | 150.00 ml/min |
| 3/8/2021 2:50 PM | 15:00 | 5.55 pH | 19.49 °C | 725.20 µS/cm | 4.89 mg/L | 5.95 NTU | 224.2 mV | 26.30 ft | 150.00 ml/min |
| 3/8/2021 2:55 PM | 20:00 | 5.55 pH | 19.47 °C | 727.48 µS/cm | 4.86 mg/L | 9.32 NTU | 227.8 mV | 26.30 ft | 150.00 ml/min |
| 3/8/2021 3:00 PM | 25:00 | 5.55 pH | 19.39 °C | 728.69 µS/cm | 4.90 mg/L | 8.41 NTU | 230.6 mV | 26.40 ft | 150.00 ml/min |
| 3/8/2021 3:05 PM | 30:00 | 5.55 pH | 19.34 °C | 728.43 µS/cm | 4.93 mg/L | 8.44 NTU | 234.1 mV | 26.40 ft | 150.00 ml/min |
| 3/8/2021 3:10 PM | 35:00 | 5.54 pH | 19.50 °C | 728.64 µS/cm | 4.84 mg/L | 7.87 NTU | 234.3 mV | 26.40 ft | 150.00 ml/min |
| 3/8/2021 3:15 PM | 40:00 | 5.54 pH | 19.72 °C | 728.68 µS/cm | 4.82 mg/L | 5.39 NTU | 235.4 mV | 26.40 ft | 150.00 ml/min |
| 3/8/2021 3:20 PM | 45:00 | 5.54 pH | 19.44 °C | 733.17 µS/cm | 5.05 mg/L | 3.02 NTU | 234.3 mV | 26.40 ft | 150.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/9/2021 1:27:21 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Ryan Walker

| | | |
|---|---|--|
| Location Name: PZ-23D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 84 ft Total Depth: 94.8 ft Initial Depth to Water: 48.94 ft | Pump Type: Bladder pump Tubing Type: Poly Pump Intake From TOC: 89 ft Estimated Total Volume Pumped: 9600 ml Flow Cell Volume: 130 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.19 ft | Instrument Used: Aqua TROLL 500 Serial Number: 602547 |
|---|---|--|

Test Notes:

Collected at 14:50. Sunny 60 s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 3 % | +/- 0.3 | +/- 10 | +/- 10 | +/- 0.3 | |
| 3/9/2021 1:27 PM | 00:00 | 7.27 pH | 19.25 °C | 622.69 µS/cm | 3.30 mg/L | 3.72 NTU | 7.9 mV | 48.94 ft | 120.00 ml/min |
| 3/9/2021 1:32 PM | 05:00 | 7.24 pH | 18.41 °C | 599.80 µS/cm | 1.63 mg/L | 6.62 NTU | 30.7 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 1:37 PM | 10:00 | 7.26 pH | 18.19 °C | 598.39 µS/cm | 1.13 mg/L | 8.53 NTU | 37.9 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 1:42 PM | 15:00 | 7.25 pH | 18.00 °C | 596.79 µS/cm | 0.83 mg/L | 14.1 NTU | 42.3 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 1:47 PM | 20:00 | 7.25 pH | 17.94 °C | 592.40 µS/cm | 0.69 mg/L | 24.3 NTU | 0.2 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 1:52 PM | 25:00 | 7.21 pH | 17.76 °C | 582.45 µS/cm | 0.59 mg/L | 39.2 NTU | -62.0 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 1:57 PM | 30:00 | 7.13 pH | 17.79 °C | 557.32 µS/cm | 0.52 mg/L | 37.7 NTU | -87.1 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 2:02 PM | 35:00 | 7.13 pH | 17.70 °C | 552.09 µS/cm | 0.49 mg/L | 30.4 NTU | -94.3 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 2:07 PM | 40:00 | 7.08 pH | 17.59 °C | 537.59 µS/cm | 0.44 mg/L | 19.0 NTU | -94.1 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 2:12 PM | 45:00 | 7.05 pH | 17.77 °C | 529.18 µS/cm | 0.40 mg/L | 22.9 NTU | -94.3 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 2:17 PM | 50:00 | 7.01 pH | 17.62 °C | 518.24 µS/cm | 0.38 mg/L | 20.5 NTU | -93.7 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 2:22 PM | 55:00 | 6.95 pH | 17.72 °C | 501.66 µS/cm | 0.35 mg/L | 18.9 NTU | -92.4 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 2:27 PM | 01:00:00 | 6.94 pH | 17.69 °C | 489.15 µS/cm | 0.33 mg/L | 15.2 NTU | -94.3 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 2:32 PM | 01:05:00 | 6.90 pH | 17.69 °C | 473.72 µS/cm | 0.31 mg/L | 11.8 NTU | -95.1 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 2:37 PM | 01:10:00 | 6.88 pH | 17.72 °C | 490.51 µS/cm | 0.29 mg/L | 9.45 NTU | -96.8 mV | 49.10 ft | 120.00 ml/min |

| | | | | | | | | | |
|------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|---------------|
| 3/9/2021 2:42 PM | 01:15:00 | 6.85 pH | 17.64 °C | 483.51 µS/cm | 0.27 mg/L | 7.63 NTU | -98.1 mV | 49.10 ft | 120.00 ml/min |
| 3/9/2021 2:47 PM | 01:20:00 | 6.85 pH | 17.67 °C | 479.14 µS/cm | 0.25 mg/L | 3.97 NTU | -99.8 mV | 49.10 ft | 120.00 ml/min |

Samples

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

Low-Flow Test Report:

NOTE:
PZ-23 has been reclassified as WGWC-21

Test Date / Time: 3/9/2021 9:57:23 AM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Ryan Walker

| | | |
|--|---|--|
| Location Name: PZ-23S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61 ft Total Depth: 71.73 ft Initial Depth to Water: 48.98 ft | Pump Type: Bladder pump Tubing Type: Poly Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 17400 ml Flow Cell Volume: 130 ml Final Flow Rate: 120 ml/min Final Draw Down: 11.92 ft | Instrument Used: Aqua TROLL 500 Serial Number: 602547 |
|--|---|--|

Test Notes:

Collected at 12:30. Sunny, 60 s. FB-1 here.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 3 % | +/- 0.3 | +/- 10 | +/- 10 | +/- 0.3 | |
| 3/9/2021 9:57 AM | 00:00 | 7.20 pH | 17.00 °C | 912.26 µS/cm | 0.62 mg/L | 7.65 NTU | 17.1 mV | 48.98 ft | 120.00 ml/min |
| 3/9/2021 10:02 AM | 05:00 | 7.25 pH | 17.19 °C | 885.82 µS/cm | 0.37 mg/L | 10.7 NTU | -43.8 mV | 50.80 ft | 120.00 ml/min |
| 3/9/2021 10:07 AM | 10:00 | 7.24 pH | 17.40 °C | 856.60 µS/cm | 0.35 mg/L | 17.5 NTU | -65.4 mV | 51.40 ft | 120.00 ml/min |
| 3/9/2021 10:12 AM | 15:00 | 7.24 pH | 17.30 °C | 841.68 µS/cm | 0.38 mg/L | 43.8 NTU | -66.2 mV | 52.30 ft | 120.00 ml/min |
| 3/9/2021 10:17 AM | 20:00 | 7.23 pH | 17.24 °C | 816.74 µS/cm | 0.38 mg/L | 68.8 NTU | -60.3 mV | 52.70 ft | 120.00 ml/min |
| 3/9/2021 10:22 AM | 25:00 | 7.25 pH | 17.30 °C | 808.64 µS/cm | 0.39 mg/L | 69.8 NTU | -55.4 mV | 53.50 ft | 120.00 ml/min |
| 3/9/2021 10:27 AM | 30:00 | 7.25 pH | 17.16 °C | 804.89 µS/cm | 0.40 mg/L | 95.7 NTU | -44.6 mV | 54.00 ft | 120.00 ml/min |
| 3/9/2021 10:32 AM | 35:00 | 7.27 pH | 17.20 °C | 801.99 µS/cm | 0.39 mg/L | 109 NTU | -36.3 mV | 54.90 ft | 120.00 ml/min |
| 3/9/2021 10:37 AM | 40:00 | 7.27 pH | 17.19 °C | 799.69 µS/cm | 0.39 mg/L | 133 NTU | -40.3 mV | 55.30 ft | 120.00 ml/min |
| 3/9/2021 10:42 AM | 45:00 | 7.24 pH | 17.21 °C | 795.68 µS/cm | 0.38 mg/L | 94.7 NTU | -36.9 mV | 55.70 ft | 120.00 ml/min |
| 3/9/2021 10:47 AM | 50:00 | 7.28 pH | 17.12 °C | 789.04 µS/cm | 0.38 mg/L | 84.7 NTU | -39.1 mV | 56.30 ft | 120.00 ml/min |
| 3/9/2021 10:52 AM | 55:00 | 7.27 pH | 17.13 °C | 785.42 µS/cm | 0.39 mg/L | 79.7 NTU | -42.3 mV | 56.70 ft | 120.00 ml/min |
| 3/9/2021 10:57 AM | 01:00:00 | 7.28 pH | 17.11 °C | 779.44 µS/cm | 0.37 mg/L | 68.3 NTU | -47.0 mV | 57.00 ft | 120.00 ml/min |
| 3/9/2021 11:02 AM | 01:05:00 | 7.28 pH | 17.29 °C | 773.46 µS/cm | 0.37 mg/L | 49.2 NTU | -51.4 mV | 57.30 ft | 120.00 ml/min |
| 3/9/2021 11:07 AM | 01:10:00 | 7.27 pH | 17.20 °C | 764.06 µS/cm | 0.37 mg/L | 29.8 NTU | -55.4 mV | 57.90 ft | 120.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|---------------|
| 3/9/2021 11:12 AM | 01:15:00 | 7.29 pH | 17.20 °C | 763.36 µS/cm | 0.41 mg/L | 11.1 NTU | -64.0 mV | 58.30 ft | 120.00 ml/min |
| 3/9/2021 11:17 AM | 01:20:00 | 7.28 pH | 17.19 °C | 758.16 µS/cm | 0.46 mg/L | 7.63 NTU | -68.8 mV | 58.70 ft | 120.00 ml/min |
| 3/9/2021 11:22 AM | 01:25:00 | 7.30 pH | 17.25 °C | 747.28 µS/cm | 0.50 mg/L | 4.78 NTU | -74.2 mV | 59.20 ft | 120.00 ml/min |
| 3/9/2021 11:27 AM | 01:30:00 | 7.29 pH | 17.30 °C | 740.23 µS/cm | 0.60 mg/L | 5.08 NTU | -77.4 mV | 59.60 ft | 100.00 ml/min |
| 3/9/2021 11:32 AM | 01:35:00 | 7.31 pH | 17.51 °C | 736.09 µS/cm | 0.69 mg/L | 4.00 NTU | -78.2 mV | 60.10 ft | 100.00 ml/min |
| 3/9/2021 11:37 AM | 01:40:00 | 7.30 pH | 17.63 °C | 731.13 µS/cm | 0.85 mg/L | 3.51 NTU | -76.9 mV | 60.30 ft | 100.00 ml/min |
| 3/9/2021 11:42 AM | 01:45:00 | 7.30 pH | 17.54 °C | 723.45 µS/cm | 1.07 mg/L | 2.50 NTU | -72.6 mV | 60.50 ft | 100.00 ml/min |
| 3/9/2021 11:47 AM | 01:50:00 | 7.32 pH | 17.51 °C | 722.76 µS/cm | 1.24 mg/L | 3.17 NTU | -69.4 mV | 60.70 ft | 100.00 ml/min |
| 3/9/2021 11:52 AM | 01:55:00 | 7.32 pH | 17.35 °C | 722.23 µS/cm | 1.37 mg/L | 3.91 NTU | -65.8 mV | 60.90 ft | 100.00 ml/min |
| 3/9/2021 11:57 AM | 02:00:00 | 7.33 pH | 17.49 °C | 726.50 µS/cm | 1.48 mg/L | 3.84 NTU | -63.5 mV | 60.90 ft | 120.00 ml/min |
| 3/9/2021 12:02 PM | 02:05:00 | 7.33 pH | 17.46 °C | 730.73 µS/cm | 1.60 mg/L | 2.03 NTU | -61.0 mV | 60.90 ft | 120.00 ml/min |
| 3/9/2021 12:07 PM | 02:10:00 | 7.33 pH | 17.55 °C | 826.52 µS/cm | 1.74 mg/L | 2.19 NTU | -51.0 mV | 60.90 ft | 120.00 ml/min |
| 3/9/2021 12:12 PM | 02:15:00 | 7.34 pH | 17.58 °C | 890.99 µS/cm | 1.49 mg/L | 1.80 NTU | -46.2 mV | 60.90 ft | 120.00 ml/min |
| 3/9/2021 12:17 PM | 02:20:00 | 7.34 pH | 17.54 °C | 919.67 µS/cm | 1.34 mg/L | 0.84 NTU | -44.5 mV | 60.90 ft | 120.00 ml/min |
| 3/9/2021 12:22 PM | 02:25:00 | 7.33 pH | 17.67 °C | 918.62 µS/cm | 1.19 mg/L | 1.08 NTU | -46.9 mV | 60.90 ft | 120.00 ml/min |
| 3/9/2021 12:27 PM | 02:30:00 | 7.29 pH | 17.78 °C | 900.90 µS/cm | 1.07 mg/L | 1.08 NTU | -46.9 mV | 60.90 ft | 120.00 ml/min |

Samples

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

Low-Flow Test Report:

NOTE:
PZ-24 has been reclassified as WGWC-22

Test Date / Time: 3/9/2021 10:22:49 AM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Hunter Auld

| | | |
|---|--|--|
| Location Name: PZ-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.8 ft Total Depth: 43.88 ft Initial Depth to Water: 16.01 ft | Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 6.3 liter Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 44.28 in | Instrument Used: Aqua TROLL 500 Serial Number: 608421 |
|---|--|--|

Test Notes:

Sampled at 1050, sunny 60s, EB-1 here at 1100 - tubing.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 3/9/2021 10:22 AM | 00:00 | 5.71 pH | 16.77 °C | 262.05 µS/cm | 3.39 mg/L | 3.22 NTU | 207.6 mV | 16.01 ft | 120.00 ml/min |
| 3/9/2021 10:27 AM | 05:00 | 5.64 pH | 16.66 °C | 227.01 µS/cm | 2.62 mg/L | 0.11 NTU | 201.5 mV | 19.50 ft | 120.00 ml/min |
| 3/9/2021 10:32 AM | 10:00 | 5.64 pH | 16.85 °C | 227.12 µS/cm | 2.34 mg/L | 1.21 NTU | 198.5 mV | 19.60 ft | 100.00 ml/min |
| 3/9/2021 10:37 AM | 15:00 | 5.54 pH | 16.88 °C | 237.22 µS/cm | 1.29 mg/L | 0.67 NTU | 196.4 mV | 19.70 ft | 100.00 ml/min |
| 3/9/2021 10:42 AM | 20:00 | 5.55 pH | 17.25 °C | 235.38 µS/cm | 1.27 mg/L | 0.18 NTU | 195.8 mV | 19.70 ft | 100.00 ml/min |
| 3/9/2021 10:47 AM | 25:00 | 5.56 pH | 17.12 °C | 234.53 µS/cm | 1.34 mg/L | 0.83 NTU | 194.5 mV | 19.70 ft | 100.00 ml/min |

Samples

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

Low-Flow Test Report:

NOTE:
PZ-25S has been reclassified as WGWC-23

Test Date / Time: 3/9/2021 3:58:15 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Ryan Walker

| | | |
|--|---|--|
| Location Name: PZ-25S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43 ft Total Depth: 53.86 ft Initial Depth to Water: 28.84 ft | Pump Type: Bladder pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 5470.833 ml Flow Cell Volume: 130 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.56 ft | Instrument Used: Aqua TROLL 500 Serial Number: 602547 |
|--|---|--|

Test Notes:

Collected at 16:42. Sunny, 60 s. EB-2 here.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 3 % | +/- 0.3 | +/- 10 | +/- 10 | +/- 0.3 | |
| 3/9/2021 3:58 PM | 00:00 | | 18.61 °C | 97.59 µS/cm | 4.84 mg/L | 7.19 NTU | | 28.84 ft | 130.00 ml/min |
| 3/9/2021 4:15 PM | 17:05 | 4.29 pH | 18.13 °C | 94.72 µS/cm | 7.27 mg/L | 7.55 NTU | 129.7 mV | 29.00 ft | 130.00 ml/min |
| 3/9/2021 4:20 PM | 22:05 | 5.84 pH | 17.93 °C | 92.84 µS/cm | 4.30 mg/L | 9.88 NTU | 151.5 mV | 29.00 ft | 130.00 ml/min |
| 3/9/2021 4:25 PM | 27:05 | 5.83 pH | 17.93 °C | 91.94 µS/cm | 4.19 mg/L | 4.49 NTU | 160.5 mV | 29.30 ft | 130.00 ml/min |
| 3/9/2021 4:30 PM | 32:05 | 5.79 pH | 17.81 °C | 93.78 µS/cm | 4.14 mg/L | 3.94 NTU | 168.6 mV | 29.40 ft | 130.00 ml/min |
| 3/9/2021 4:35 PM | 37:05 | 5.83 pH | 17.72 °C | 95.00 µS/cm | 4.11 mg/L | 3.22 NTU | 171.7 mV | 29.40 ft | 130.00 ml/min |
| 3/9/2021 4:40 PM | 42:05 | 5.81 pH | 17.57 °C | 95.44 µS/cm | 4.08 mg/L | 2.96 NTU | 176.6 mV | 29.40 ft | 130.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/9/2021 1:13:14 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: T. Goble

| | | |
|---|--|--|
| Location Name: PZ-26D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70.11 ft Total Depth: 80.11 ft Initial Depth to Water: 14.05 ft | Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 75 ft Estimated Total Volume Pumped: 4750 ml Flow Cell Volume: 130 ml Final Flow Rate: 190 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 500 Serial Number: 601857 |
|---|--|--|

Test Notes:

Sampled at 1338. Partly cloudy 69 degrees

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 2 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 3/9/2021 1:13 PM | 00:00 | 6.26 pH | 25.12 °C | 0.05 µS/cm | 8.13 mg/L | 7.92 NTU | 154.6 mV | 14.05 ft | 190.00 ml/min |
| 3/9/2021 1:18 PM | 05:00 | 6.17 pH | 19.33 °C | 250.82 µS/cm | 0.60 mg/L | 2.26 NTU | 132.6 mV | 14.05 ft | 190.00 ml/min |
| 3/9/2021 1:23 PM | 10:00 | 6.14 pH | 19.38 °C | 249.71 µS/cm | 0.33 mg/L | 2.00 NTU | 127.4 mV | 14.05 ft | 190.00 ml/min |
| 3/9/2021 1:28 PM | 15:00 | 6.15 pH | 19.14 °C | 248.41 µS/cm | 0.25 mg/L | 1.76 NTU | 122.4 mV | 14.05 ft | 190.00 ml/min |
| 3/9/2021 1:33 PM | 20:00 | 6.18 pH | 19.16 °C | 248.32 µS/cm | 0.24 mg/L | 1.65 NTU | 116.8 mV | 14.05 ft | 190.00 ml/min |
| 3/9/2021 1:38 PM | 25:00 | 6.19 pH | 19.12 °C | 247.76 µS/cm | 0.21 mg/L | 1.92 NTU | 114.3 mV | 14.05 ft | 190.00 ml/min |

Samples

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

Low-Flow Test Report:

NOTE:
PZ-26S has been reclassified as WGWC-24

Test Date / Time: 3/9/2021 2:04:42 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: T. Goble

| | | |
|---|---|--|
| Location Name: PZ-26S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.8 ft Total Depth: 40.8 ft Initial Depth to Water: 12.41 ft | Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 36 ft Estimated Total Volume Pumped: 6025 ml Flow Cell Volume: 130 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.33 ft | Instrument Used: Aqua TROLL 500 Serial Number: 601857 |
|---|---|--|

Test Notes:

Sampled at 1434. Sunny 69 degrees

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 2 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 3/9/2021 2:04 PM | 00:00 | 4.33 pH | 19.03 °C | 602.47 µS/cm | 1.44 mg/L | 4.59 NTU | 198.9 mV | 12.41 ft | 150.00 ml/min |
| 3/9/2021 2:09 PM | 05:00 | 4.23 pH | 18.67 °C | 611.06 µS/cm | 0.79 mg/L | 4.04 NTU | 251.1 mV | 12.70 ft | 175.00 ml/min |
| 3/9/2021 2:14 PM | 10:00 | 4.24 pH | 18.61 °C | 611.95 µS/cm | 0.67 mg/L | 3.15 NTU | 274.3 mV | 12.74 ft | 220.00 ml/min |
| 3/9/2021 2:19 PM | 15:00 | 4.27 pH | 19.01 °C | 614.72 µS/cm | 0.62 mg/L | 3.26 NTU | 287.6 mV | 12.74 ft | 220.00 ml/min |
| 3/9/2021 2:24 PM | 20:00 | 4.29 pH | 19.45 °C | 617.77 µS/cm | 0.55 mg/L | 3.71 NTU | 297.6 mV | 12.74 ft | 220.00 ml/min |
| 3/9/2021 2:29 PM | 25:00 | 4.29 pH | 19.37 °C | 623.09 µS/cm | 0.49 mg/L | 3.31 NTU | 307.3 mV | 12.74 ft | 220.00 ml/min |
| 3/9/2021 2:34 PM | 30:00 | 4.29 pH | 19.53 °C | 624.27 µS/cm | 0.43 mg/L | 4.25 NTU | 316.7 mV | 12.74 ft | 220.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/8/2021 12:36:35 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Hunter Auld

| | | |
|--|--|--|
| Location Name: PZ-27D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 71.7 ft Total Depth: 81.74 ft Initial Depth to Water: 19.93 ft | Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 76 ft Estimated Total Volume Pumped: 3.8 liter Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 3.2 in | Instrument Used: Aqua TROLL 500 Serial Number: 608421 |
|--|--|--|

Test Notes:

Start Purge: 1235

Sampled at 1300. Sunny, 60s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 3/8/2021 12:36 PM | 00:00 | 7.37 pH | 16.71 °C | 1,164.8 µS/cm | 0.61 mg/L | 0.09 NTU | 199.9 mV | 19.93 ft | 150.00 ml/min |
| 3/8/2021 12:41 PM | 05:00 | 7.42 pH | 16.62 °C | 1,161.3 µS/cm | 0.44 mg/L | 0.03 NTU | 54.6 mV | 20.20 ft | 150.00 ml/min |
| 3/8/2021 12:46 PM | 10:00 | 7.43 pH | 16.77 °C | 1,161.0 µS/cm | 0.29 mg/L | 0.64 NTU | 64.1 mV | 20.20 ft | 150.00 ml/min |
| 3/8/2021 12:51 PM | 15:00 | 7.44 pH | 16.77 °C | 1,160.8 µS/cm | 0.24 mg/L | 1.19 NTU | 0.3 mV | 20.20 ft | 150.00 ml/min |
| 3/8/2021 12:56 PM | 20:00 | 7.44 pH | 16.82 °C | 1,159.9 µS/cm | 0.20 mg/L | 3.40 NTU | -30.7 mV | 20.20 ft | 150.00 ml/min |

Samples

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

Low-Flow Test Report:

NOTE:
PZ-27S has been reclassified as WGWC-25

Test Date / Time: 3/8/2021 1:17:03 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Hunter Auld

| | | |
|--|--|--|
| Location Name: PZ-27S Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.9 ft Total Depth: 39.93 ft Initial Depth to Water: 16.88 ft | Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 6.8 liter Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 3.8 in | Instrument Used: Aqua TROLL 500 Serial Number: 608421 |
|--|--|--|

Test Notes:

Sampled at 1400, sunny 60s, Dup-1 here.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 3/8/2021 1:17 PM | 00:00 | 5.38 pH | 16.93 °C | 297.83 µS/cm | 1.12 mg/L | 6.48 NTU | 117.0 mV | 16.88 ft | 150.00 ml/min |
| 3/8/2021 1:22 PM | 05:00 | 5.35 pH | 16.80 °C | 294.07 µS/cm | 0.54 mg/L | 168 NTU | 168.0 mV | 17.20 ft | 150.00 ml/min |
| 3/8/2021 1:27 PM | 10:00 | 5.34 pH | 16.72 °C | 292.11 µS/cm | 0.40 mg/L | 178 NTU | 188.2 mV | 17.20 ft | 150.00 ml/min |
| 3/8/2021 1:32 PM | 15:00 | 5.35 pH | 16.76 °C | 289.70 µS/cm | 0.36 mg/L | 76.5 NTU | 201.7 mV | 17.20 ft | 150.00 ml/min |
| 3/8/2021 1:37 PM | 20:00 | 5.35 pH | 16.83 °C | 288.30 µS/cm | 0.34 mg/L | 70.4 NTU | 210.0 mV | 17.20 ft | 150.00 ml/min |
| 3/8/2021 1:42 PM | 25:00 | 5.35 pH | 16.78 °C | 289.04 µS/cm | 0.33 mg/L | 42.1 NTU | 214.5 mV | 17.20 ft | 150.00 ml/min |
| 3/8/2021 1:47 PM | 30:00 | 5.35 pH | 16.80 °C | 287.93 µS/cm | 0.33 mg/L | 12.2 NTU | 215.5 mV | 17.20 ft | 150.00 ml/min |
| 3/8/2021 1:52 PM | 35:00 | 5.35 pH | 16.80 °C | 287.74 µS/cm | 0.37 mg/L | 5.01 NTU | 218.8 mV | 17.20 ft | 150.00 ml/min |
| 3/8/2021 1:57 PM | 40:00 | 5.36 pH | 16.89 °C | 286.79 µS/cm | 0.41 mg/L | 2.29 NTU | 222.4 mV | 17.20 ft | 150.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/9/2021 3:03:41 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: T. Goble

| | | |
|--|---|--|
| Location Name: PZ-28 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.96 ft Total Depth: 72.96 ft Initial Depth to Water: 29.06 ft | Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 67 ft Estimated Total Volume Pumped: 3750 ml Flow Cell Volume: 130 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.85 ft | Instrument Used: Aqua TROLL 500 Serial Number: 601857 |
|--|---|--|

Test Notes:

Sampled at 1533. Sunny 70 degrees

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 2 | +/- 5 % | +/- 10 % | +/- 5 | +/- 300 | +/- 10 | |
| 3/9/2021 3:03 PM | 00:00 | 5.93 pH | 23.39 °C | 104.56 µS/cm | 5.46 mg/L | 0.34 NTU | 243.8 mV | 29.06 ft | 150.00 ml/min |
| 3/9/2021 3:08 PM | 05:00 | 5.75 pH | 19.68 °C | 64.80 µS/cm | 4.41 mg/L | 1.36 NTU | 251.9 mV | 29.72 ft | 120.00 ml/min |
| 3/9/2021 3:13 PM | 10:00 | 5.68 pH | 19.47 °C | 64.28 µS/cm | 4.62 mg/L | 3.39 NTU | 256.5 mV | 29.76 ft | 120.00 ml/min |
| 3/9/2021 3:18 PM | 15:00 | 5.68 pH | 18.82 °C | 63.58 µS/cm | 4.63 mg/L | 5.72 NTU | 257.2 mV | 29.80 ft | 120.00 ml/min |
| 3/9/2021 3:23 PM | 20:00 | 5.67 pH | 18.60 °C | 56.80 µS/cm | 4.63 mg/L | 4.54 NTU | 258.7 mV | 29.84 ft | 120.00 ml/min |
| 3/9/2021 3:28 PM | 25:00 | 5.65 pH | 18.24 °C | 56.39 µS/cm | 4.67 mg/L | 4.77 NTU | 260.2 mV | 29.87 ft | 120.00 ml/min |
| 3/9/2021 3:33 PM | 30:00 | 5.65 pH | 18.06 °C | 55.47 µS/cm | 4.66 mg/L | 2.35 NTU | 261.1 mV | 29.91 ft | 120.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/11/2021 9:46:00 AM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Hunter Auld

| | | |
|--|---|--|
| Location Name: PZ-29D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119.5 ft Total Depth: 129.57 ft Initial Depth to Water: 21.08 ft | Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 124 ft Estimated Total Volume Pumped: 18.5 liter Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 18.5 in | Instrument Used: Aqua TROLL 500 Serial Number: 608421 |
|--|---|--|

Test Notes:

Purge start: 0920

Sampled at 1225, sunny, 60s.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 3/11/2021 9:46 AM | 00:00 | 6.72 pH | 16.47 °C | 19.13 µS/cm | 8.67 mg/L | 3.61 NTU | 227.1 mV | 21.08 ft | 100.00 ml/min |
| 3/11/2021 9:51 AM | 05:37 | 6.41 pH | 17.61 °C | 411.31 µS/cm | 1.01 mg/L | 18.2 NTU | -4.0 mV | 22.90 ft | 100.00 ml/min |
| 3/11/2021 9:56 AM | 10:37 | 6.44 pH | 17.54 °C | 410.35 µS/cm | 0.87 mg/L | 20.2 NTU | -25.9 mV | 23.00 ft | 100.00 ml/min |
| 3/11/2021 10:01 AM | 15:37 | 6.45 pH | 17.48 °C | 404.87 µS/cm | 0.80 mg/L | 21.7 NTU | -32.0 mV | 23.10 ft | 100.00 ml/min |
| 3/11/2021 10:06 AM | 20:37 | 6.45 pH | 17.55 °C | 400.00 µS/cm | 0.74 mg/L | 19.8 NTU | -32.7 mV | 23.20 ft | 100.00 ml/min |
| 3/11/2021 10:11 AM | 25:37 | 6.44 pH | 17.95 °C | 400.88 µS/cm | 0.73 mg/L | 20.6 NTU | -33.4 mV | 23.30 ft | 100.00 ml/min |
| 3/11/2021 10:16 AM | 30:37 | 6.44 pH | 18.35 °C | 405.13 µS/cm | 0.69 mg/L | 17.5 NTU | -32.5 mV | 23.40 ft | 100.00 ml/min |
| 3/11/2021 10:21 AM | 35:37 | 6.44 pH | 18.05 °C | 399.91 µS/cm | 0.68 mg/L | 19.5 NTU | -31.6 mV | 23.50 ft | 100.00 ml/min |
| 3/11/2021 10:26 AM | 40:37 | 6.44 pH | 18.06 °C | 399.47 µS/cm | 0.69 mg/L | 20.1 NTU | -30.9 mV | 23.60 ft | 100.00 ml/min |
| 3/11/2021 10:31 AM | 45:37 | 6.44 pH | 18.23 °C | 398.94 µS/cm | 0.70 mg/L | 25.2 NTU | -30.9 mV | 23.70 ft | 100.00 ml/min |
| 3/11/2021 10:36 AM | 50:37 | 6.44 pH | 18.31 °C | 397.05 µS/cm | 0.68 mg/L | 17.4 NTU | -31.3 mV | 23.80 ft | 100.00 ml/min |
| 3/11/2021 10:41 AM | 55:37 | 6.44 pH | 18.30 °C | 400.10 µS/cm | 0.68 mg/L | 18.6 NTU | -31.4 mV | 23.90 ft | 100.00 ml/min |
| 3/11/2021 10:46 AM | 01:00:37 | 6.44 pH | 18.18 °C | 400.60 µS/cm | 0.69 mg/L | 23.8 NTU | -31.1 mV | 24.00 ft | 100.00 ml/min |
| 3/11/2021 10:51 AM | 01:05:37 | 6.44 pH | 18.27 °C | 401.60 µS/cm | 0.69 mg/L | 21.8 NTU | -31.3 mV | 24.20 ft | 100.00 ml/min |
| 3/11/2021 10:56 AM | 01:10:37 | 6.44 pH | 18.54 °C | 400.77 µS/cm | 0.67 mg/L | 25.4 NTU | -32.7 mV | 24.20 ft | 100.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|---------------|
| 3/11/2021 11:01 AM | 01:15:37 | 6.44 pH | 19.52 °C | 399.26 µS/cm | 0.73 mg/L | 11.8 NTU | -33.6 mV | 24.30 ft | 100.00 ml/min |
| 3/11/2021 11:06 AM | 01:20:37 | 6.43 pH | 18.63 °C | 392.90 µS/cm | 0.78 mg/L | 10.8 NTU | -30.8 mV | 24.30 ft | 100.00 ml/min |
| 3/11/2021 11:11 AM | 01:25:37 | 6.44 pH | 18.60 °C | 398.71 µS/cm | 0.67 mg/L | 10.9 NTU | -32.6 mV | 24.40 ft | 100.00 ml/min |
| 3/11/2021 11:16 AM | 01:30:37 | 6.43 pH | 18.67 °C | 394.87 µS/cm | 0.59 mg/L | 11.1 NTU | -33.3 mV | 24.40 ft | 100.00 ml/min |
| 3/11/2021 11:21 AM | 01:35:37 | 6.43 pH | 18.70 °C | 395.61 µS/cm | 0.58 mg/L | 10.6 NTU | -34.6 mV | 24.50 ft | 100.00 ml/min |
| 3/11/2021 11:26 AM | 01:40:37 | 6.43 pH | 19.37 °C | 397.77 µS/cm | 0.59 mg/L | 10.6 NTU | -36.1 mV | 24.60 ft | 100.00 ml/min |
| 3/11/2021 11:31 AM | 01:45:37 | 6.43 pH | 20.00 °C | 399.57 µS/cm | 0.58 mg/L | 10.5 NTU | -37.6 mV | 24.60 ft | 100.00 ml/min |
| 3/11/2021 11:36 AM | 01:50:37 | 6.43 pH | 19.98 °C | 397.26 µS/cm | 0.57 mg/L | 9.80 NTU | -38.2 mV | 24.60 ft | 100.00 ml/min |
| 3/11/2021 11:41 AM | 01:55:37 | 6.42 pH | 19.92 °C | 396.25 µS/cm | 0.55 mg/L | 10.9 NTU | -38.2 mV | 24.60 ft | 100.00 ml/min |
| 3/11/2021 11:46 AM | 02:00:37 | 6.42 pH | 19.99 °C | 395.42 µS/cm | 0.57 mg/L | 15.1 NTU | -38.3 mV | 24.70 ft | 100.00 ml/min |
| 3/11/2021 11:51 AM | 02:05:37 | 6.41 pH | 20.23 °C | 396.47 µS/cm | 0.55 mg/L | 12.7 NTU | -38.2 mV | 24.70 ft | 100.00 ml/min |
| 3/11/2021 11:56 AM | 02:10:37 | 6.42 pH | 20.11 °C | 397.16 µS/cm | 0.54 mg/L | 11.9 NTU | -39.8 mV | 24.80 ft | 100.00 ml/min |
| 3/11/2021 12:01 PM | 02:15:37 | 6.42 pH | 20.49 °C | 395.49 µS/cm | 0.54 mg/L | 11.2 NTU | -40.7 mV | 24.80 ft | 100.00 ml/min |
| 3/11/2021 12:06 PM | 02:20:37 | 6.41 pH | 20.47 °C | 395.36 µS/cm | 0.54 mg/L | 10.8 NTU | -41.3 mV | 24.90 ft | 100.00 ml/min |
| 3/11/2021 12:11 PM | 02:25:37 | 6.41 pH | 20.25 °C | 391.87 µS/cm | 0.52 mg/L | 9.50 NTU | -41.4 mV | 24.90 ft | 100.00 ml/min |
| 3/11/2021 12:16 PM | 02:30:37 | 6.41 pH | 20.48 °C | 392.43 µS/cm | 0.53 mg/L | 9.40 NTU | -41.3 mV | 24.90 ft | 100.00 ml/min |
| 3/11/2021 12:21 PM | 02:35:37 | 6.41 pH | 20.32 °C | 394.00 µS/cm | 0.53 mg/L | 9.40 NTU | -42.2 mV | 25.00 ft | 100.00 ml/min |

Samples

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



Daily Instrument Calibration Log

SITE: Plant Wansley AP/P2
 TECHNICIAN: Ryan Welles
 WATER LEVEL: Solnist
 WATER LEVEL S/N: 378589

INSTRUMENT S/N: R32813 602547
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: PH4 LOT #: 06D016 EXP. DATE: 04/22
 ID: PH7 LOT #: 96L1006 EXP. DATE: 12/21
 ID: PH10 LOT #: 96L1018 EXP. DATE: 12/21
 ID: CON LOT #: 06J1033 EXP. DATE: 09/21
 ID: ORP LOT #: 06H1018 EXP. DATE: 12/21

Midday pH check

Must be less than .10

(6.90-7.10 range)

Recalibrate if not within range

Calibration Date: 3/9/21

RDO: 100% sat. = 99.09

Midday pH check

PH: 4.00 = 3.96 7.00 = 6.89 10.00 = 10.00

7.0 = 6.95

PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 =

post recal check

CONDUCTIVITY: 1413 = 1423

ORP (mV) 241.56 = 246.4

Calibration Date: 3/10/21

RDO: 100% sat. = 99.81

Midday pH check

PH: 4.00 = 4.10 7.00 = 7.00 10.00 = 10.06

7.0 = 7.10

PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 =

post recal check

CONDUCTIVITY: 1413 = 1050.3

ORP (mV) 248.63 = 250.9

Calibration Date: 3/11/21

RDO: 100% sat. = 99.81

Midday pH check

PH: 4.00 = 4.34 7.00 = 7.00 10.00 = 10.07

7.0 = 7.05

PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 =

post recal check

CONDUCTIVITY: 1413 = 1578.1

ORP (mV) 241.94 = 242.7

Calibration Date:

RDO: 100% sat. =

Midday pH check

PH: 4.00 = 7.00 = 10.00 =

7.0 =

PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 =

post recal check

CONDUCTIVITY: =

ORP (mV) =

Calibration Date:

RDO: 100% sat. =

Midday pH check

PH: 4.00 = 7.00 = 10.00 =

7.0 =

PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 =

post recal check

CONDUCTIVITY: =

ORP (mV) =



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: Ryan Walker
INSTRUMENT S/N: 19090C079596
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # PI EXP. DATE: New
10 NTU - LOT # A0350 EXP. DATE: 04/22
20 NTU - LOT # A0339 EXP. DATE: 03/22

Calibration Date: 3/9/21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | <u>0.09</u> | NTU |
| 10.0 | <u>10.4</u> | NTU |
| 20.0 | <u>20.8</u> | NTU |

Calibration Date: 3/10/21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | <u>0.12</u> | NTU |
| 10.0 | <u>10.0</u> | NTU |
| 20.0 | <u>19.9</u> | NTU |

Calibration Date: 3/11/21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | <u>0.15</u> | NTU |
| 10.0 | <u>9.93</u> | NTU |
| 20.0 | <u>20.0</u> | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |



Daily Instrument Calibration Log

SITE: Wansley AP
 TECHNICIAN: H. Auld
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 48832

INSTRUMENT S/N: 608421 - Pine water
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: pH 4 LOT #: 06E1407 EXP. DATE: 09/22
 ID: pH 7 LOT #: 16B200 EXP. DATE: 02/23
 ID: pH 10 LOT #: 06J170 EXP. DATE: 08/22 10/22
 ID: Cond. LOT #: 06I1033 EXP. DATE: 09/21
 ID: ORP LOT #: 06H1018 EXP. DATE: 05/21

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 3/8/21

RDO: 100% sat. = 106.3
 PH: 4.00 = 4.34 7.00 = 7.21 10.00 = 9.97 7.0 = 7.04
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1464
 ORP (mV) 240 = 243

Calibration Date: 3/9/21

RDO: 100% sat. = 98.7
 PH: 4.00 = 3.99 7.00 = 7.23 10.00 = 10.60 7.0 = 6.99
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1380
 ORP (mV) 240 = 253

Calibration Date: 3-10-21

RDO: 100% sat. = 103.7
 PH: 4.00 = 4.04 7.00 = 6.95 10.00 = 10.01 7.0 = 7.04
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1120
 ORP (mV) 240 = 233

Calibration Date: 3/11/21

RDO: 100% sat. = 104.1
 PH: 4.00 = 3.94 7.00 = 7.05 10.00 = 10.07 7.0 = 7.04
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1645
 ORP (mV) 240 = 240

Calibration Date: 3/12/21

RDO: 100% sat. = 96.1
 PH: 4.00 = 4.10 7.00 = 7.06 10.00 = 10.08 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1598
 ORP (mV) 240 = 242



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: H. Auld

INSTRUMENT S/N: 39566 (Rental)
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # A NA EXP. DATE: New DF
10 NTU - LOT # A0301 EXP. DATE: Feb-22
20 NTU - LOT # A0339 EXP. DATE: Mar-22

Calibration Date: 3/8/21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | 0.2 | NTU |
| 10.0 | 9.6 | NTU |
| 20.0 | 19.7 | NTU |

Calibration Date: 3/9/21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | 0.2 | NTU |
| 10.0 | 9.7 | NTU |
| 20.0 | 10 19.8 | NTU |

Calibration Date: 3/10/21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | 0.3 | NTU |
| 10.0 | 9.5 | NTU |
| 20.0 | 19.6 | NTU |

Calibration Date: 3/11/21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | 0.2 | NTU |
| 10.0 | 9.2 | NTU |
| 20.0 | 20.5 | NTU |

Calibration Date: 3/12/21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | 0.2 | NTU |
| 10.0 | 9.2 | NTU |
| 20.0 | 19.2 | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |



Daily Instrument Calibration Log

SITE: Plant Wansley
 TECHNICIAN: T. Goble
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 378591

INSTRUMENT S/N: 601857
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: Cond. LOT #: 06E438 EXP. DATE: 05/21
 ID: pH 4 LOT #: 06D046 EXP. DATE: 04/22
 ID: pH 7 LOT #: 1GB200 EXP. DATE: 02/23
 ID: pH 10 LOT #: 06J170 EXP. DATE: 10/22
 ID: Quick Cal LOT #: 033240 EXP. DATE: 9/21
 ID: Tap LOT #: - EXP. DATE: New DI H₂O
 ID: _____ LOT #: _____ EXP. DATE: _____

Midday pH check

Must be less than .10

(6.90-7.10 range)

Recalibrate if not within range

Calibration Date: 3-9-21

RDO: 100% sat. = 100.86

Midday pH check

PH: 4.00 = 4.15 7.00 = 7.20 10.00 = 9.90

7.0 = 6.96

PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____

7.0 = ✓ post recal check NA

CONDUCTIVITY: 1413 = 1383

ORP (mV) 244 = 188.9

Calibration Date: 3-10-21

RDO: 100% sat. = 100.15

Midday pH check

PH: 4.00 = 4.02 7.00 = 6.95 10.00 = 10.46

7.0 = 7.24

PH Recal (if needed): 4.00 = 4.11 7.00 = 7.18 10.00 = 10.31

7.0 = 7.07 post recal check ✓

CONDUCTIVITY: 1413 = 1303

ORP (mV) 251 = 289.9

Calibration Date: 3-11-21

RDO: 100% sat. = 99.96

Midday pH check

PH: 4.00 = 4.00 7.00 = 6.85 10.00 = 9.81

7.0 = 7.31

PH Recal (if needed): 4.00 = 4.08 7.00 = 7.14 10.00 = 10.28

7.0 = 7.02 post recal check ✓

CONDUCTIVITY: 1413 = 1310

ORP (mV) 245 = 237.1

Calibration Date: 3-12-21

RDO: 100% sat. = 99.75

Midday pH check

PH: 4.00 = 4.05 7.00 = 7.09 10.00 = 10.07

7.0 = _____

PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____

7.0 = NA post recal check Only worked half-day

CONDUCTIVITY: 1413 = 1449

ORP (mV) 240 = 193.8

Calibration Date:

RDO: 100% sat. = _____

Midday pH check

PH: 4.00 = _____ 7.00 = _____ 10.00 = _____

7.0 = _____

PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____

7.0 = _____ post recal check

CONDUCTIVITY: _____ = _____

ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant Wansley
 TECHNICIAN: T. Gable

INSTRUMENT S/N: 17120C063767
 INSTRUMENT TYPE: Hach 2100Q
 CAL. SOLUTION: 0 NTU - LOT # NewDL EXP. DATE: —
10 NTU - LOT # A0136 EXP. DATE: Aug 121
20 NTU - LOT # A0139 EXP. DATE: Aug 121

Calibration Date: 3-8-21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

NA (site wide water levels all day)

Calibration Date: 3-9-21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | 0.18 | NTU |
| 10.0 | 9.62 | NTU |
| 20.0 | 20.5 | NTU |

100 = 101
800 = 803

Calibration Date: 3-10-21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | 0.22 | NTU |
| 10.0 | 9.70 | NTU |
| 20.0 | 20.2 | NTU |

100 = 102
800 = 800

Calibration Date: 3-11-21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | 0.24 | NTU |
| 10.0 | 9.95 | NTU |
| 20.0 | 20.3 | NTU |

100 = 104
800 = 802

Calibration Date: 3-12-21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | 0.27 | NTU |
| 10.0 | 10.2 | NTU |
| 20.0 | 20.3 | NTU |

100 = 102
800 = 800

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

Field Sampling Forms – April 2021

Product Name: Low-Flow System

Date: 2021-04-08 14:01:26

NOTE:
PZ-22 has been reclassified as WGWC-20

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID PZ-22
Well diameter 2 in
Well Total Depth 42.85 ft
Screen Length 10 ft
Depth to Water 25.74 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.2819272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|--------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 2 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 30 |
| Last 5 | 13:40:05 | 600.02 | 21.46 | 5.65 | 678.74 | 3.20 | 26.15 | 5.12 | 83.57 |
| Last 5 | 13:45:05 | 900.01 | 21.64 | 5.63 | 670.20 | 2.55 | 26.24 | 4.99 | 83.18 |
| Last 5 | 13:50:05 | 1200.01 | 20.97 | 5.61 | 678.93 | 2.03 | 26.28 | 5.06 | 83.85 |
| Last 5 | 13:55:05 | 1500.00 | 20.56 | 5.61 | 675.21 | 1.81 | 26.30 | 5.06 | 84.04 |
| Last 5 | 14:00:05 | 1800.00 | 20.79 | 5.60 | 675.55 | 1.60 | 26.32 | 5.04 | 83.83 |
| Variance 0 | | | -0.67 | -0.02 | 8.73 | | | 0.07 | 0.67 |
| Variance 1 | | | -0.41 | -0.00 | -3.72 | | | -0.00 | 0.18 |
| Variance 2 | | | 0.22 | -0.01 | 0.35 | | | -0.02 | -0.21 |

Notes

Sampled at 1400. Cloudy 72 degrees. FB-2 poured here

Grab Samples

Product Name: Low-Flow System

Date: 2021-04-07 12:55:08

NOTE:
PZ-23S has been reclassified as WGWC-21

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 72 ft

Pump placement from TOC 67 ft

Well Information:

Well ID PZ-23S
Well diameter 2 in
Well Total Depth 71.73 ft
Screen Length 10 ft
Depth to Water 48.77 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 0.4113665 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 24 in
Total Volume Pumped 4.4 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|--------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 2 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 30 |
| Last 5 | 12:34:02 | 1200.01 | 19.19 | 6.97 | 777.21 | 6.32 | 50.25 | 0.79 | 20.78 |
| Last 5 | 12:39:02 | 1500.00 | 19.50 | 7.00 | 779.10 | 5.86 | 50.35 | 0.81 | 16.71 |
| Last 5 | 12:44:02 | 1799.99 | 19.63 | 7.02 | 784.41 | 5.71 | 50.39 | 0.84 | 14.98 |
| Last 5 | 12:49:02 | 2099.99 | 19.32 | 7.04 | 791.37 | 5.30 | 50.43 | 0.91 | 14.64 |
| Last 5 | 12:54:04 | 2401.98 | 19.05 | 7.05 | 801.79 | 4.87 | 50.47 | 0.91 | 14.74 |
| Variance 0 | | | 0.13 | 0.02 | 5.32 | | | 0.03 | -1.73 |
| Variance 1 | | | -0.31 | 0.02 | 6.95 | | | 0.07 | -0.34 |
| Variance 2 | | | -0.27 | 0.01 | 10.42 | | | -0.00 | 0.10 |

Notes

Sampled at 1254. Sunny 76 degrees

Grab Samples

Low-Flow Test Report:

Test Date / Time: 4/8/2021 10:45:13 AM

Project: Plant Wansley - Ash Pond PZ

Operator Name: O. Fuquea

| | | |
|---|--|--|
| Location Name: PZ-23D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 84.8 ft Total Depth: 94.8 in Initial Depth to Water: 48.65 ft | Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 10.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|---|--|--|

Test Notes:

Collected at 1155. 66F overcast. DUP-1 collected.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 4/8/2021 10:45 AM | 00:00 | 7.84 pH | 19.70 °C | 568.66 µS/cm | 1.84 mg/L | 9.63 NTU | 86.7 mV | 48.65 ft | 150.00 ml/min |
| 4/8/2021 10:50 AM | 05:00 | 7.35 pH | 19.50 °C | 647.41 µS/cm | 1.22 mg/L | 8.70 NTU | 65.1 mV | 48.80 ft | 150.00 ml/min |
| 4/8/2021 10:55 AM | 10:00 | 7.13 pH | 19.51 °C | 651.72 µS/cm | 0.96 mg/L | 8.18 NTU | 57.8 mV | 48.80 ft | 150.00 ml/min |
| 4/8/2021 11:00 AM | 15:00 | 7.06 pH | 19.63 °C | 639.55 µS/cm | 0.81 mg/L | 11.10 NTU | 50.9 mV | 48.80 ft | 150.00 ml/min |
| 4/8/2021 11:05 AM | 20:00 | 7.04 pH | 19.62 °C | 640.79 µS/cm | 0.73 mg/L | 8.88 NTU | 40.5 mV | 48.80 ft | 150.00 ml/min |
| 4/8/2021 11:10 AM | 25:00 | 7.02 pH | 19.54 °C | 636.92 µS/cm | 0.65 mg/L | 8.63 NTU | 30.0 mV | 48.80 ft | 150.00 ml/min |
| 4/8/2021 11:15 AM | 30:00 | 7.01 pH | 19.60 °C | 629.42 µS/cm | 0.60 mg/L | 7.33 NTU | 14.9 mV | 48.80 ft | 150.00 ml/min |
| 4/8/2021 11:20 AM | 35:00 | 6.99 pH | 19.97 °C | 625.82 µS/cm | 0.52 mg/L | 9.53 NTU | 5.0 mV | 48.80 ft | 150.00 ml/min |
| 4/8/2021 11:25 AM | 40:00 | 6.97 pH | 21.01 °C | 625.24 µS/cm | 0.44 mg/L | 8.42 NTU | 0.1 mV | 48.80 ft | 150.00 ml/min |
| 4/8/2021 11:30 AM | 45:00 | 6.97 pH | 21.91 °C | 618.19 µS/cm | 0.41 mg/L | 7.83 NTU | -13.5 mV | 48.80 ft | 150.00 ml/min |
| 4/8/2021 11:35 AM | 50:00 | 6.97 pH | 22.05 °C | 610.83 µS/cm | 0.40 mg/L | 8.48 NTU | -18.7 mV | 48.80 ft | 150.00 ml/min |
| 4/8/2021 11:40 AM | 55:00 | 6.96 pH | 22.27 °C | 604.32 µS/cm | 0.38 mg/L | 8.29 NTU | -21.5 mV | 48.80 ft | 150.00 ml/min |
| 4/8/2021 11:45 AM | 01:00:00 | 6.96 pH | 22.54 °C | 600.37 µS/cm | 0.34 mg/L | 6.72 NTU | -23.1 mV | 48.80 ft | 150.00 ml/min |
| 4/8/2021 11:50 AM | 01:05:00 | 6.94 pH | 23.12 °C | 596.77 µS/cm | 0.28 mg/L | 5.27 NTU | -23.4 mV | 48.80 ft | 150.00 ml/min |
| 4/8/2021 11:55 AM | 01:10:00 | 6.94 pH | 23.04 °C | 587.54 µS/cm | 0.28 mg/L | 4.94 NTU | -19.6 mV | 48.80 ft | 150.00 ml/min |

Samples

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

Created using VuSitu from In-Situ, Inc.

Product Name: Low-Flow System

Date: 2021-04-08 12:31:34

NOTE:
PZ-24 has been reclassified as WGWC-22

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 44 ft

Pump placement from TOC 39 ft

Well Information:

Well ID PZ-24
Well diameter 2 in
Well Total Depth 43.88 ft
Screen Length 10 ft
Depth to Water 15.67 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 0.2863906 L 300
Calculated Sample Rate sec
Stabilization Drawdown 35 in
Total Volume Pumped 3.3 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|--------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 2 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 30 |
| Last 5 | 12:10:14 | 600.02 | 18.65 | 6.05 | 207.19 | 1.88 | 17.59 | 5.46 | 89.80 |
| Last 5 | 12:15:14 | 900.01 | 18.30 | 6.09 | 207.93 | 1.61 | 17.96 | 5.48 | 86.81 |
| Last 5 | 12:20:14 | 1200.01 | 18.23 | 6.05 | 208.22 | 1.32 | 18.30 | 5.45 | 88.18 |
| Last 5 | 12:25:18 | 1503.94 | 18.21 | 6.05 | 208.13 | 1.17 | 18.42 | 5.47 | 87.31 |
| Last 5 | 12:30:17 | 1802.99 | 18.47 | 6.01 | 207.76 | 1.05 | 18.55 | 5.38 | 88.59 |
| Variance 0 | | | -0.06 | -0.04 | 0.29 | | | -0.03 | 1.36 |
| Variance 1 | | | -0.02 | 0.00 | -0.09 | | | 0.02 | -0.87 |
| Variance 2 | | | 0.26 | -0.04 | -0.37 | | | -0.08 | 1.27 |

Notes

Sampled at 1230. Mostly cloudy 70 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2021-04-07 11:21:19

NOTE:
PZ-25S has been reclassified as WGWC-23

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond-PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 54 ft

Pump placement from TOC 49 ft

Well Information:

Well ID PZ-25S
Well diameter 2 in
Well Total Depth 53.86 ft
Screen Length 10 ft
Depth to Water 28.61 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.3310249 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|--------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 2 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 50 |
| Last 5 | 11:00:40 | 600.02 | 18.12 | 5.89 | 81.43 | 3.81 | 29.29 | 5.22 | 81.87 |
| Last 5 | 11:05:40 | 900.01 | 17.86 | 5.61 | 81.27 | 3.36 | 29.32 | 5.23 | 80.34 |
| Last 5 | 11:10:40 | 1200.00 | 17.80 | 5.64 | 80.81 | 2.88 | 29.33 | 5.21 | 76.81 |
| Last 5 | 11:15:40 | 1500.00 | 17.72 | 5.63 | 80.29 | 2.45 | 29.33 | 5.15 | 76.36 |
| Last 5 | 11:20:40 | 1799.99 | 17.81 | 5.57 | 80.33 | 2.27 | 29.33 | 5.16 | 78.78 |
| Variance 0 | | | -0.05 | 0.03 | -0.45 | | | -0.03 | -3.53 |
| Variance 1 | | | -0.09 | -0.01 | -0.52 | | | -0.06 | -0.45 |
| Variance 2 | | | 0.09 | -0.06 | 0.04 | | | 0.02 | 2.42 |

Notes

Sampled at 1120. Sunny 70 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2021-04-07 14:29:09

NOTE:
PZ-26S has been reclassified as WGWC-24

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 41 ft

Pump placement from TOC 36 ft

Well Information:

Well ID PZ-26S
Well diameter 2 in
Well Total Depth 40.80 ft
Screen Length 10 ft
Depth to Water 12.25 ft

Pumping Information:

Final Pumping Rate 210 mL/min
Total System Volume 0.2730004 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 6.6 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|--------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 2 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 30 |
| Last 5 | 14:08:17 | 600.02 | 19.63 | 4.46 | 630.12 | 1.15 | 12.44 | 3.85 | 76.63 |
| Last 5 | 14:13:17 | 900.01 | 19.46 | 4.43 | 634.38 | 0.96 | 12.48 | 3.84 | 79.57 |
| Last 5 | 14:18:17 | 1200.01 | 19.50 | 4.43 | 631.64 | 0.91 | 12.52 | 3.82 | 82.47 |
| Last 5 | 14:23:17 | 1500.00 | 19.86 | 4.42 | 633.90 | 0.79 | 12.55 | 3.77 | 84.58 |
| Last 5 | 14:28:17 | 1800.00 | 19.99 | 4.43 | 631.54 | 0.73 | 12.56 | 3.74 | 86.69 |
| Variance 0 | | | 0.05 | -0.00 | -2.74 | | | -0.02 | 2.91 |
| Variance 1 | | | 0.35 | -0.01 | 2.26 | | | -0.05 | 2.11 |
| Variance 2 | | | 0.13 | 0.01 | -2.36 | | | -0.03 | 2.11 |

Notes

Sampled at 1428. Sunny 79 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2021-04-07 15:39:47

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 80 ft

Pump placement from TOC 75 ft

Well Information:

Well ID PZ-26D
Well diameter 2 in
Well Total Depth 80.11 ft
Screen Length 10 ft
Depth to Water 13.88 ft

Pumping Information:

Final Pumping Rate 170 mL/min
Total System Volume 0.4470738 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|--------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 2 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 30 |
| Last 5 | 15:17:14 | 1204.01 | 22.18 | 6.39 | 263.46 | 1.17 | 15.24 | 3.49 | 70.01 |
| Last 5 | 15:22:14 | 1504.00 | 21.82 | 6.42 | 262.58 | 0.88 | 15.25 | 3.74 | 69.05 |
| Last 5 | 15:27:14 | 1804.00 | 20.95 | 6.43 | 262.36 | 0.80 | 15.27 | 4.25 | 70.87 |
| Last 5 | 15:32:17 | 2106.99 | 21.91 | 6.43 | 264.98 | 0.59 | 15.29 | 4.22 | 70.02 |
| Last 5 | 15:37:17 | 2406.98 | 22.18 | 6.46 | 264.78 | 0.52 | 15.31 | 4.29 | 68.60 |
| Variance 0 | | | -0.87 | 0.00 | -0.21 | | | 0.52 | 1.82 |
| Variance 1 | | | 0.95 | 0.00 | 2.62 | | | -0.03 | -0.85 |
| Variance 2 | | | 0.27 | 0.03 | -0.20 | | | 0.07 | -1.43 |

Notes

Sampled at 1537. Partly cloudy 79 degrees

Grab Samples

Low-Flow Test Report:

NOTE:
PZ-27S has been reclassified as WGWC-25

Test Date / Time: 4/8/2021 2:06:32 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: O. Fuquea

| | | |
|---|--|--|
| Location Name: PZ-27S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.9 ft Total Depth: 39.93 ft Initial Depth to Water: 16.9 ft | Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 4 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|---|--|--|

Test Notes:

Collected at 1431. 73 F cloudy.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 4/8/2021 2:06 PM | 00:00 | 6.10 pH | 21.02 °C | 318.14 µS/cm | 2.60 mg/L | 5.56 NTU | 89.7 mV | 17.20 ft | 150.00 ml/min |
| 4/8/2021 2:11 PM | 05:00 | 5.48 pH | 18.22 °C | 335.00 µS/cm | 0.42 mg/L | 7.61 NTU | 89.6 mV | 17.20 ft | 150.00 ml/min |
| 4/8/2021 2:16 PM | 10:00 | 5.41 pH | 18.04 °C | 333.24 µS/cm | 0.43 mg/L | 6.32 NTU | 89.7 mV | 17.20 ft | 150.00 ml/min |
| 4/8/2021 2:21 PM | 15:00 | 5.38 pH | 17.72 °C | 333.76 µS/cm | 0.40 mg/L | 5.47 NTU | 90.6 mV | 17.30 ft | 150.00 ml/min |
| 4/8/2021 2:26 PM | 20:00 | 5.38 pH | 17.76 °C | 330.68 µS/cm | 0.40 mg/L | 4.79 NTU | 91.2 mV | 17.30 ft | 150.00 ml/min |
| 4/8/2021 2:31 PM | 25:00 | 5.39 pH | 18.02 °C | 330.33 µS/cm | 0.43 mg/L | 3.32 NTU | 91.5 mV | 17.30 ft | 150.00 ml/min |

Samples

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

Low-Flow Test Report:

Test Date / Time: 4/7/2021 3:04:17 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: O. Fuquea

| | | |
|--|--|--|
| Location Name: PZ-27D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 71.7 ft Total Depth: 81.74 ft Initial Depth to Water: 19.87 ft | Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 77 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|--|--|--|

Test Notes:

Collected at 1529. 80F cloudy.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 4/7/2021 3:04 PM | 00:00 | 7.38 pH | 23.75 °C | 844.32 µS/cm | 2.72 mg/L | 3.94 NTU | 55.0 mV | 19.90 ft | 150.00 ml/min |
| 4/7/2021 3:09 PM | 05:00 | 7.22 pH | 19.75 °C | 974.11 µS/cm | 0.25 mg/L | 3.67 NTU | 54.5 mV | 20.00 ft | 150.00 ml/min |
| 4/7/2021 3:14 PM | 10:00 | 7.18 pH | 20.13 °C | 976.18 µS/cm | 0.13 mg/L | 3.60 NTU | 49.2 mV | 20.10 ft | 150.00 ml/min |
| 4/7/2021 3:19 PM | 15:00 | 7.17 pH | 19.63 °C | 986.06 µS/cm | 0.10 mg/L | 2.23 NTU | 43.9 mV | 20.10 ft | 150.00 ml/min |
| 4/7/2021 3:24 PM | 20:00 | 7.17 pH | 19.35 °C | 983.62 µS/cm | 0.10 mg/L | 1.68 NTU | 38.9 mV | 20.20 ft | 150.00 ml/min |
| 4/7/2021 3:29 PM | 25:00 | 7.17 pH | 19.02 °C | 996.27 µS/cm | 0.08 mg/L | 1.22 NTU | 32.3 mV | 20.20 ft | 150.00 ml/min |

Samples

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

Product Name: Low-Flow System

Date: 2021-04-08 10:58:44

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 73 ft

Pump placement from TOC 68 ft

Well Information:

Well ID PZ-28
Well diameter 2 in
Well Total Depth 72.96 ft
Screen Length 10 ft
Depth to Water 29.03 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.4158299 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7 in
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

| | Time | Elapsed | Temp C | pH | SpCond μ S/cm | Turb NTU | DTW ft | RDO mg/L | ORP mV |
|---------------|----------|---------|--------|---------|-------------------|----------|--------|----------|--------|
| Stabilization | | | +/- 2 | +/- 0.1 | +/- 5% | +/- 10 | | +/- 10% | +/- 30 |
| Last 5 | 10:37:45 | 600.02 | 18.08 | 6.20 | 71.27 | 2.39 | 29.66 | 4.19 | 103.38 |
| Last 5 | 10:42:45 | 900.01 | 17.99 | 5.86 | 68.02 | 2.12 | 29.71 | 4.23 | 100.26 |
| Last 5 | 10:47:45 | 1200.00 | 18.03 | 5.78 | 67.10 | 1.89 | 29.74 | 4.23 | 96.16 |
| Last 5 | 10:52:45 | 1500.00 | 18.08 | 5.75 | 66.68 | 1.55 | 29.75 | 4.21 | 93.20 |
| Last 5 | 10:57:47 | 1802.00 | 18.13 | 5.70 | 66.25 | 1.36 | 29.76 | 4.19 | 92.64 |
| Variance 0 | | | 0.04 | -0.08 | -0.91 | | | -0.00 | -4.10 |
| Variance 1 | | | 0.05 | -0.03 | -0.42 | | | -0.03 | -2.96 |
| Variance 2 | | | 0.06 | -0.06 | -0.43 | | | -0.02 | -0.56 |

Notes

Sampled at 1057. Cloudy 65 degrees

Grab Samples

Low-Flow Test Report:

Test Date / Time: 4/8/2021 12:41:09 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: O. Fuquea

| | | |
|--|--|--|
| Location Name: PZ-29D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119.5 ft Total Depth: 129.57 ft Initial Depth to Water: 21.42 ft | Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 125 ft Estimated Total Volume Pumped: 53.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 28 in | Instrument Used: Aqua TROLL 400 Serial Number: 714293 |
|--|--|--|

Test Notes:

Collected at 1315. 70F overcast. Total purge time: 445 min.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth To Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 100 | +/- 5 % | +/- 10 % | +/- 10 | +/- 100 | +/- 0.3 | |
| 4/8/2021 12:41 PM | 00:00 | 6.59 pH | 21.27 °C | 355.18 µS/cm | 0.93 mg/L | 7.60 NTU | 50.2 mV | 23.80 ft | 150.00 ml/min |
| 4/8/2021 12:46 PM | 05:00 | 6.62 pH | 20.22 °C | 428.95 µS/cm | 0.16 mg/L | 6.19 NTU | 5.3 mV | 23.80 ft | 150.00 ml/min |
| 4/8/2021 12:51 PM | 10:00 | 6.50 pH | 19.81 °C | 354.36 µS/cm | 0.23 mg/L | 7.06 NTU | 9.5 mV | 23.80 ft | 150.00 ml/min |
| 4/8/2021 12:56 PM | 15:00 | 6.46 pH | 19.56 °C | 349.13 µS/cm | 0.40 mg/L | 5.96 NTU | 16.6 mV | 23.80 ft | 150.00 ml/min |
| 4/8/2021 1:01 PM | 20:00 | 6.33 pH | 19.82 °C | 347.37 µS/cm | 0.42 mg/L | 6.32 NTU | 19.3 mV | 23.80 ft | 150.00 ml/min |
| 4/8/2021 1:06 PM | 25:00 | 6.33 pH | 19.83 °C | 339.11 µS/cm | 0.44 mg/L | 6.66 NTU | 19.9 mV | 23.80 ft | 150.00 ml/min |
| 4/8/2021 1:11 PM | 30:00 | 6.34 pH | 20.15 °C | 347.30 µS/cm | 0.43 mg/L | 6.20 NTU | 17.1 mV | 23.80 ft | 150.00 ml/min |

Samples

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



Daily Instrument Calibration Log

SITE: Plant Wansley Ash Pond
 TECHNICIAN: T. Goble
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 378591

INSTRUMENT S/N: 040821
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

| | | |
|------------------|-----------------------|-------------------------|
| ID: <u>pH 4</u> | LOT #: <u>OG1407</u> | EXP. DATE: <u>09/22</u> |
| ID: <u>pH 7</u> | LOT #: <u>OG1615</u> | EXP. DATE: <u>09/22</u> |
| ID: <u>pH 10</u> | LOT #: <u>OGD451</u> | EXP. DATE: <u>04/22</u> |
| ID: <u>ORP</u> | LOT #: <u>1GA224</u> | EXP. DATE: <u>10/21</u> |
| ID: <u>Cond</u> | LOT #: <u>OGT1033</u> | EXP. DATE: <u>09/21</u> |
| ID: | LOT #: | EXP. DATE: |
| ID: | LOT #: | EXP. DATE: |

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 4-7-21
 RDO: 100% sat. = 99.2 Midday pH check
 PH: 4.00 = 4.88 7.00 = 7.57 10.00 = 10.47 7.0 = 7.04 ✓
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = NA post recal check
 CONDUCTIVITY: 1413 = 1433
 ORP (mV) 240 = 189.1

Calibration Date: 4-8-21
 RDO: 100% sat. = 96.3 Midday pH check
 PH: 4.00 = 4.89 7.00 = 7.57 10.00 = 10.46 7.0 = 7.13
 PH Recal (if needed): 4.00 = 4.81 7.00 = 7.61 10.00 = 10.42 7.0 = 7.05 post recal check ✓
 CONDUCTIVITY: 1413 = 1508
 ORP (mV) 240 = 192.6

Calibration Date:
 RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:
 RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:
 RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: WANSLEY AP
 TECHNICIAN: O. FUQUEA
 WATER LEVEL: SOLWEST M101
 WATER LEVEL S/N: 322814

INSTRUMENT S/N: 714293
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

| | | |
|-----------------|-----------------------|------------------------|
| ID: <u>Cond</u> | LOT #: <u>0611032</u> | EXP. DATE: <u>9-21</u> |
| ID: <u>pH4</u> | LOT #: <u>06E1402</u> | EXP. DATE: <u>9-22</u> |
| ID: <u>pH7</u> | LOT #: <u>06D808</u> | EXP. DATE: <u>4-22</u> |
| ID: <u>pH10</u> | LOT #: <u>06D851</u> | EXP. DATE: <u>4-22</u> |
| ID: <u>ORP</u> | LOT #: <u>0611018</u> | EXP. DATE: <u>5-21</u> |
| ID: | LOT #: | EXP. DATE: |
| ID: | LOT #: | EXP. DATE: |

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 4-7-21
 RDO: 100% sat. = 100.14%
 PH: 4.00 = 4.30 7.00 = 7.03 10.00 = 9.92
 PH Recal (if needed): 4.00 = 7.00 = 10.00 =
 CONDUCTIVITY: 1458 = 1447
 ORP (mV) 225 = 195.1

Midday pH check
 7.0 = 7.06 COND = 131432
 7.0 = post recal check NA

Calibration Date: 4-8-21
 RDO: 100% sat. = 100.5%
 PH: 4.00 = 4.09 7.00 = 6.99 10.00 = 9.99
 PH Recal (if needed): 4.00 = 7.00 = 10.00 =
 CONDUCTIVITY: 1485 = 1502
 ORP (mV) 129199 = 192.4

Midday pH check
 7.0 = 7.04
 7.0 = post recal check NA

Calibration Date:
 RDO: 100% sat. =
 PH: 4.00 = 7.00 = 10.00 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 =
 CONDUCTIVITY: =
 ORP (mV) =

Midday pH check
 7.0 =
 7.0 = post recal check

Calibration Date:
 RDO: 100% sat. =
 PH: 4.00 = 7.00 = 10.00 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 =
 CONDUCTIVITY: =
 ORP (mV) =

Midday pH check
 7.0 =
 7.0 = post recal check

Calibration Date:
 RDO: 100% sat. =
 PH: 4.00 = 7.00 = 10.00 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 =
 CONDUCTIVITY: =
 ORP (mV) =

Midday pH check
 7.0 =
 7.0 = post recal check



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: O. FUQUEA

INSTRUMENT S/N: 16040C049743
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # New DI EXP. DATE: —
10 NTU - LOT # A0136 EXP. DATE: Aug/21
20 NTU - LOT # A0139 EXP. DATE: Aug/21

Calibration Date: 4-7-21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | 0.1 | NTU |
| 10.0 | 9.93 | NTU |
| 20.0 | 19.47 | NTU |

Calibration Date: 4-8-21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | 0.11 | NTU |
| 10.0 | 9.93 | NTU |
| 20.0 | 19.82 | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |



Daily Instrument Calibration Log

SITE: Plant Wansley
 TECHNICIAN: T. Goble

INSTRUMENT S/N: I1090C012353
 INSTRUMENT TYPE: Hach 2100Q
 CAL. SOLUTION: 0 NTU - LOT # New BI EXP. DATE: -
10 NTU - LOT # 120107 EXP. DATE: 5-1-21
20 NTU - LOT # A0113 EXP. DATE: 5-1-21

Calibration Date: 4-7-21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | 0.23 | NTU |
| 10.0 | 10.2 | NTU |
| 20.0 | 20.5 | NTU |

100 = 98.4
 800 = 803

Calibration Date: 4-8-21

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | 0.15 | NTU |
| 10.0 | 9.74 | NTU |
| 20.0 | 19.9 | NTU |

100 = 99.6
 800 = 801

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

Calibration Date:

| Calibration Solution | Instrument Reading | |
|----------------------|--------------------|-----|
| 0.0 | | NTU |
| 10.0 | | NTU |
| 20.0 | | NTU |

APPENDIX C

Piper Trilinear Plot

DATE: August 4, 2021

TO: Kristen Jurinko, P.G., Southern Company Services, Inc.
Ben Hodges, P.G., Georgia Power Company
Lauren Petty, P.G., Georgia Power Company

FROM: Adria Reimer, P.G., Geosyntec Consultants, Inc.
Herwig Goldemund, Ph.D., Geosyntec Consultants, Inc.

**SUBJECT: Piper Trilinear Plot
Georgia Power Company, Plant Wansley Ash Pond 1 (AP-1)**

INTRODUCTION

Results from groundwater samples collected in March 2021 from compliance monitoring wells located upgradient of Plant Wansley Ash Pond 1 (AP-1) (i.e., WGWA-1 through WGWA-7, and WGWA-18) and downgradient of AP-1 (i.e., WGWC-8 through WGWC-17, and WGWC-19 through WGWC-25), as well as piezometers PZ-23D, PZ-26D, PZ-27D, PZ-28, and PZ-29D, were used to conduct a geochemical analysis of groundwater. Collected groundwater samples were analyzed for the major cations (i.e., calcium, magnesium, sodium, and potassium) and anions (i.e., chloride, sulfate, and bicarbonate). Prior to proceeding with this geochemical evaluation, a charge balance of the major ions was conducted for each sample. A charge balance is mathematically expressed as the percent difference between cation and anion concentrations. The charge balance, which gives an indication of the analytical data quality, should generally be within ± 10 percent. All samples used in this analysis were within this criterion, with the exception of samples collected from WGWC-14A and WGWC-23 (former PZ-25S). Therefore, these two samples were not included in this analysis.

PIPER TRILINEAR PLOT CONSTRUCTION

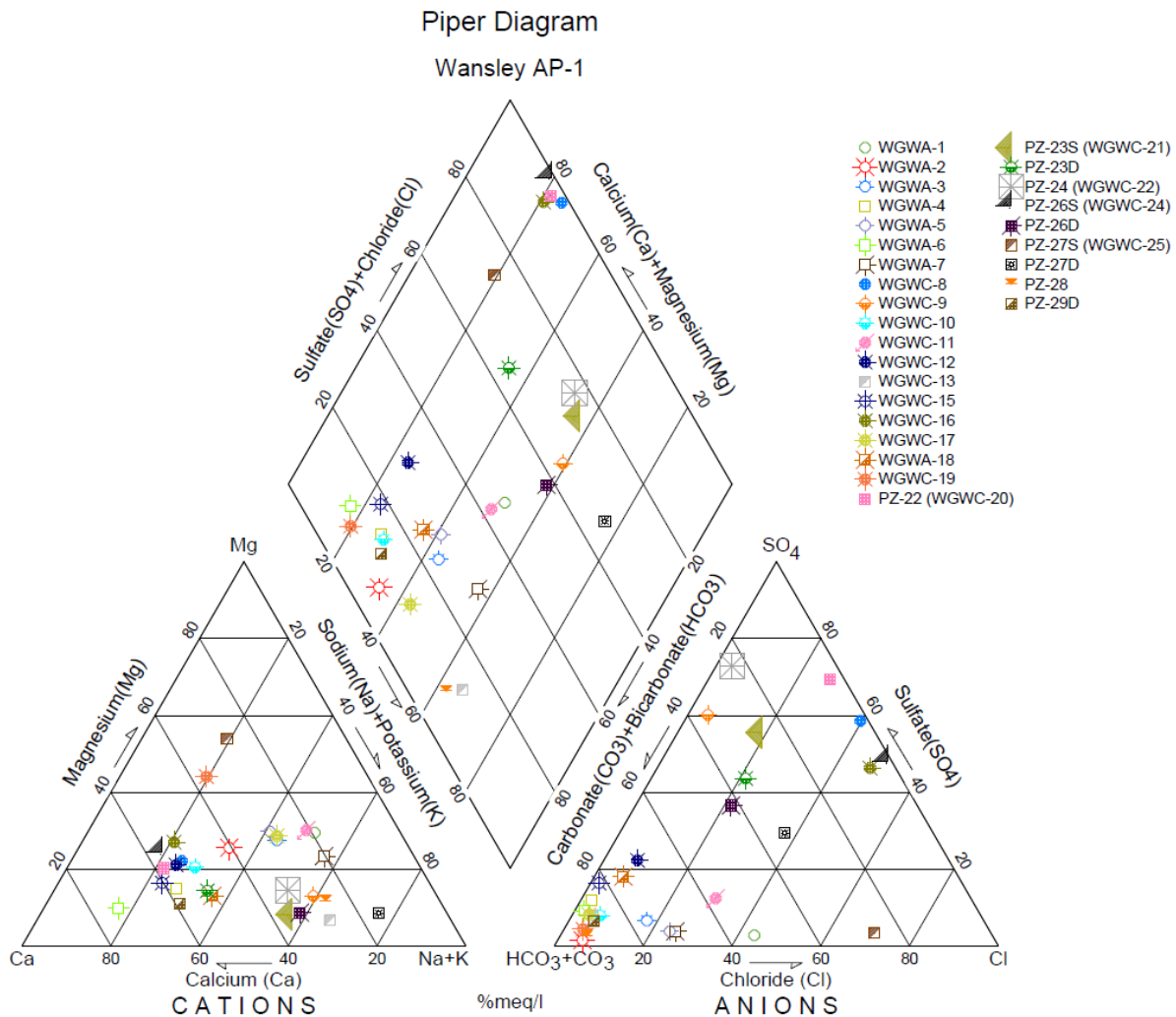
The major ions were used to construct a Piper diagram, which is a common tool for assessing geochemical similarities and differences between aqueous samples. Laboratory data, which are normally reported in milligrams per liter (mg/L), are converted to milliequivalents per liter (meq/L) when plotted on a Piper diagram.

Piper diagrams are trilinear diagrams that plot the relative contributions of major ions to the overall geochemical makeup of a liquid sample. The diagram has three components. The large diamond-shaped component displays the combined cation and anion composition of major solutes. The two

smaller triangular components display the cation components and the anion components, separately and in greater detail. The sample data are plotted as a percentage of the total milliequivalents on the diagram with each component reaching 100 percent at its respective corner of the diagram. If the results from discrete samples plot relatively close to each other, their respective chemical compositions are similar, and they might have a similar (or the same) source of solutes. One can also see mixing of different waters if the samples fall along straight lines between various water types (e.g., mixing of calcium/magnesium carbonate water, such as limestone or dolomite with calcium sulfate water, such as gypsum).

GROUNDWATER GEOCHEMICAL EVALUATION

The resulting Piper diagram for groundwater data collected in March 2021 is presented below¹.



¹ Data for WGWC-14A and PZ-25S (reclassified as WGWC-23) are not shown as the charge balance for each is not within ± 10 percent based on results of groundwater samples collected in March 2021.

As can be seen on this Piper plot, with a few exceptions further discussed below, the data generally show highly variable geochemical conditions across the Site, including within the background wells. As described in the *Hydrogeologic Assessment Report Revision 01* (HAR Rev. 01) prepared for AP-1 by Geosyntec (2019), due to the steep topography at the Site and the variable lithologic framework, the depth to the water table is variable, ranging from approximately 1 to 50 feet below ground surface (ft bgs). The uppermost aquifer at AP-1 occurs primarily in partially weathered rock (PWR) and fractured bedrock. In localized areas south of AP-1 shallower groundwater elevations are noted within saprolite. Further, there are several bedrock geologic units present at AP-1, with units north and northwest of AP-1 differing from those southeast and south of the ash pond. Correspondingly, the depths of compliance well and piezometer screens, as well as the materials within the screen interval (e.g., saprolite, PWR, bedrock unit) vary spatially across the Site.

Therefore, the wide range of geochemical conditions depicted on the diagram is consistent with the variability of the geologic units in which these wells and piezometers are screened. A small grouping of four wells (i.e., WGWC-8, WGWC-16, WGWC-20 [former PZ-22], and WGWC-24 [former PZ-26S]) plot close to each other within the calcium-sulfate portion of the diamond-shape Piper diagram. Other downgradient wells and piezometers plot within the range of background wells, highlighting the natural variability in groundwater conditions at AP-1.

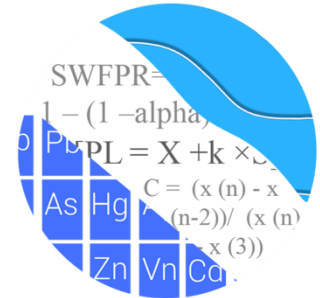
APPENDIX D

Statistical Analysis Package

GROUNDWATER STATS CONSULTING

August 24, 2021

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Wansley Ash Pond
March 2021 Statistical Analysis

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the March 2021 Groundwater Detection and Assessment Monitoring Statistical summary for Georgia Power Company's Plant Wansley Ash Pond. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). The site is in Assessment Monitoring.

Sampling began for Appendix III and IV parameters in 2016 and at least 8 background samples have been collected at each of the groundwater monitoring wells except for those discussed below. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** WGWA-1, WGWA-2, WGWA-3, WGWA-4, WGWA-5, WGWA-6, WGWA-7, and WGWA-18
- **Downgradient wells:** WGWC-8, WGWC-9, WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17, WGWC-19, WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25

Note that wells WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25 were first sampled in March 2021. These wells have been sampled for Appendix III

parameters and lithium a total of two times, and will be incorporated into statistical analyses once a minimum of 8 samples are available.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Groundwater Statistician and Founder of Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The CCR program consists of 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

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). 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. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs with 100% non-detects follows this letter. Additionally, when Appendix IV constituents are not detected during a scheduled Scan event, no statistical analyses are required during the semi-annual sample event. During the annual Scan event conducted in February 2021, cadmium and mercury were not detected; therefore, these constituents were not required to be sampled during the March 2021 event. These data are plotted on the time series and box plots, but no formal statistics were required.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. For calculating prediction limits, the substitution is performed for individual wells and may differ across wells. This generally gives the most conservative limit in each case.

In the time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group.

During the background screening conducted by MacStat Consulting in 2017, 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 to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, Appendix III parameters are evaluated using interwell prediction limits combined with a 1-of-2 resample plan for all constituents: boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Parametric prediction limits 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 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 limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- 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 most recent 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 on the data pages.

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 during each event after careful screening for any new outliers. While this was not required for this analysis, in some cases, the earlier portion of data record may require deselecting prior to construction of limits to provide sensitive limits that will rapidly detect 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.

Statistical Evaluation of Appendix III Parameters – March 2021

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged and a summary of flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 2021 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well, which is March 2021 for all downgradient wells, is compared to the background limit to determine whether there are statistically significant increases (SSIs). It was noted that the reporting limit for boron, as provided by the laboratory, has fluctuated over the years from 0.05 mg/L to 0.1 mg/L. The current reporting limit is 0.08 mg/L; therefore, it is substituted for all historical reporting limits as a result of substitution method discussed earlier.

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 resamples confirm the initial exceedance, a statistically significant increase 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; therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the background prediction limits and exceedances follows this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: WGWC-8, WGWC-9, and WGWC-16
- Calcium: WGWC-8
- Chloride: WGWC-8 and WGWC-16
- Fluoride: WGWC-9, WGWC-15, and WGWC-19
- Sulfate: WGWC-8, WGWC-9, and WGWC-16
- TDS: WGWC-8

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 to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Boron: WGWC-8
- Calcium: WGWC-8
- Chloride: WGWC-8
- Sulfate: WGWA-4 (upgradient) and WGWC-8
- TDS: WGWC-8

Decreasing trends:

- Chloride: WGWA-5 (upgradient)
- Fluoride: WGWC-9 and WGWC-19

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 background 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.

Statistical Evaluation of Appendix IV Parameters – March 2021

For Appendix IV parameters, confidence intervals for each downgradient well/constituent 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 all wells for Appendix IV parameters are reassessed for outliers during each analysis prior to constructing statistical limits. No new values were flagged during this analysis and a complete list of flagged outliers follows this report (Figure C).

First, interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through March 2021 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a).

As described in 40 CFR §257.95(h) (1-3), the Federal GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, CCR-rule specified levels have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the State GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following Georgia EPD Rule requirements and the Federal CCR requirements, Federal and State GWPS were established for statistical comparison of Appendix IV constituents for the March 2021 sample event (Figure G). Note that a GWPS is established for cadmium and mercury; however, since these constituents were not sampled during the March 2021 sampling event, no statistical comparison with confidence intervals was required.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well. The Sanitas software was used to calculate the upper tolerance limits and the confidence intervals, either parametric or nonparametric, as appropriate. For the State requirements, confidence intervals were compared to the GWPS established using the Georgia EPD Rules 391-3-4-.10(6)(a). For Federal requirements, confidence intervals were compared to the GWPS prepared according to the CCR Rule. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparisons against GWPS for both Federal and States requirements, follow this letter (Figures H and I, respectively).

For the federal confidence intervals, the following exceedance was noted:

- Lithium: WGWC-19

For the state confidence intervals, the following exceedances were noted:

- Lithium: WGWC-8, WGWC-9, and WGWC-19

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Wansley Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew T. Collins
Project Manager



Kristina L. Rayner
Groundwater Statistician

100% Non-Detects: Appendix IV Downgradient

Analysis Run 5/11/2021 1:12 PM View: Appendix IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Antimony (mg/L)

WGWC-10, WGWC-11, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17, WGWC-19, WGWC-8

Arsenic (mg/L)

WGWC-19

Beryllium (mg/L)

WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-19

Cadmium (mg/L)

WGWC-11, WGWC-12, WGWC-13, WGWC-14A, WGWC-15, WGWC-17, WGWC-19, WGWC-8, WGWC-9

Chromium (mg/L)

WGWC-12, WGWC-16, WGWC-17, WGWC-19, WGWC-8

Lead (mg/L)

WGWC-12, WGWC-19

Molybdenum (mg/L)

WGWC-16, WGWC-8

Selenium (mg/L)

WGWC-13, WGWC-17

Thallium (mg/L)

WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-8, WGWC-9

Appendix III Interwell Prediction Limits - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:04 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------------|---------|------------|------------|-----------|---------|------|------|---------|-----------|-------|---------|-----------|------------|-----------------------------|
| Boron (mg/L) | WGWC-16 | 0.08 | n/a | 3/11/2021 | 1.1 | Yes | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-8 | 0.08 | n/a | 3/11/2021 | 2.4 | Yes | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-9 | 0.08 | n/a | 3/12/2021 | 0.64 | Yes | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | WGWC-8 | 58 | n/a | 3/11/2021 | 83 | Yes | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-16 | 6.05 | n/a | 3/11/2021 | 49 | Yes | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-8 | 6.05 | n/a | 3/11/2021 | 110 | Yes | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-15 | 0.284 | n/a | 3/12/2021 | 0.88 | Yes | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-19 | 0.284 | n/a | 3/11/2021 | 0.31 | Yes | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-9 | 0.284 | n/a | 3/12/2021 | 0.98 | Yes | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-16 | 21 | n/a | 3/11/2021 | 64 | Yes | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-8 | 21 | n/a | 3/11/2021 | 220 | Yes | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-9 | 21 | n/a | 3/12/2021 | 62 | Yes | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-8 | 190 | n/a | 3/11/2021 | 530 | Yes | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |

Appendix III Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:04 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|------------------------|----------------|--------------|------------|------------------|-------------|------------|------------|------------|------------|--------------|------------|------------|-------------------|------------------------------------|
| Boron (mg/L) | WGWC-10 | 0.08 | n/a | 3/11/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-11 | 0.08 | n/a | 3/12/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-12 | 0.08 | n/a | 3/12/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-13 | 0.08 | n/a | 3/11/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-14A | 0.08 | n/a | 3/11/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-15 | 0.08 | n/a | 3/12/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-16 | 0.08 | n/a | 3/11/2021 | 1.1 | Yes | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-17 | 0.08 | n/a | 3/11/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-19 | 0.08 | n/a | 3/11/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-8 | 0.08 | n/a | 3/11/2021 | 2.4 | Yes | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-9 | 0.08 | n/a | 3/12/2021 | 0.64 | Yes | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | WGWC-10 | 58 | n/a | 3/11/2021 | 7.9 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-11 | 58 | n/a | 3/12/2021 | 1.6 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-12 | 58 | n/a | 3/12/2021 | 15 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-13 | 58 | n/a | 3/11/2021 | 4 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-14A | 58 | n/a | 3/11/2021 | 0.79 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-15 | 58 | n/a | 3/12/2021 | 31 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-16 | 58 | n/a | 3/11/2021 | 32 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-17 | 58 | n/a | 3/11/2021 | 5.7 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-19 | 58 | n/a | 3/11/2021 | 15 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-8 | 58 | n/a | 3/11/2021 | 83 | Yes | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-9 | 58 | n/a | 3/12/2021 | 11 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-10 | 6.05 | n/a | 3/11/2021 | 1.7 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-11 | 6.05 | n/a | 3/12/2021 | 3.6 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-12 | 6.05 | n/a | 3/12/2021 | 3.5 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-13 | 6.05 | n/a | 3/11/2021 | 1.2 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-14A | 6.05 | n/a | 3/11/2021 | 2.6 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-15 | 6.05 | n/a | 3/12/2021 | 1.6 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-16 | 6.05 | n/a | 3/11/2021 | 49 | Yes | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-17 | 6.05 | n/a | 3/11/2021 | 1.3 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-19 | 6.05 | n/a | 3/11/2021 | 2.9 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-8 | 6.05 | n/a | 3/11/2021 | 110 | Yes | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-9 | 6.05 | n/a | 3/12/2021 | 3.4 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-10 | 0.284 | n/a | 3/11/2021 | 0.15 | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-11 | 0.284 | n/a | 3/12/2021 | 0.044J | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-12 | 0.284 | n/a | 3/12/2021 | 0.096J | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-13 | 0.284 | n/a | 3/11/2021 | 0.18 | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-14A | 0.284 | n/a | 3/11/2021 | 0.04J | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-15 | 0.284 | n/a | 3/12/2021 | 0.88 | Yes | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-16 | 0.284 | n/a | 3/11/2021 | 0.061J | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-17 | 0.284 | n/a | 3/11/2021 | 0.05J | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-19 | 0.284 | n/a | 3/11/2021 | 0.31 | Yes | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-8 | 0.284 | n/a | 3/11/2021 | 0.16 | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-9 | 0.284 | n/a | 3/12/2021 | 0.98 | Yes | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-10 | 7.96 | 4.96 | 3/11/2021 | 6.56 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-11 | 7.96 | 4.96 | 3/12/2021 | 5.46 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-12 | 7.96 | 4.96 | 3/12/2021 | 6.66 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-13 | 7.96 | 4.96 | 3/11/2021 | 5.95 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-14A | 7.96 | 4.96 | 3/11/2021 | 5.1 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-15 | 7.96 | 4.96 | 3/12/2021 | 7.72 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-16 | 7.96 | 4.96 | 3/11/2021 | 5.21 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-17 | 7.96 | 4.96 | 3/11/2021 | 5.96 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-19 | 7.96 | 4.96 | 3/11/2021 | 7.12 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-8 | 7.96 | 4.96 | 3/11/2021 | 5.35 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-9 | 7.96 | 4.96 | 3/12/2021 | 5.88 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |

Appendix III Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:04 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------------------|----------------|------------|------------|------------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------------|------------------------------------|
| Sulfate (mg/L) | WGWC-10 | 21 | n/a | 3/11/2021 | 2.8 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-11 | 21 | n/a | 3/12/2021 | 2 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-12 | 21 | n/a | 3/12/2021 | 14 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-13 | 21 | n/a | 3/11/2021 | 2.9 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-14A | 21 | n/a | 3/11/2021 | 1.7 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-15 | 21 | n/a | 3/12/2021 | 19 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-16 | 21 | n/a | 3/11/2021 | 64 | Yes | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-17 | 21 | n/a | 3/11/2021 | 3.9 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-19 | 21 | n/a | 3/11/2021 | 4 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-8 | 21 | n/a | 3/11/2021 | 220 | Yes | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-9 | 21 | n/a | 3/12/2021 | 62 | Yes | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-10 | 190 | n/a | 3/11/2021 | 52 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-11 | 190 | n/a | 3/12/2021 | 27 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-12 | 190 | n/a | 3/12/2021 | 78 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-13 | 190 | n/a | 3/11/2021 | 63 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-14A | 190 | n/a | 3/11/2021 | 24 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-15 | 190 | n/a | 3/12/2021 | 130 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-16 | 190 | n/a | 3/11/2021 | 190 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-17 | 190 | n/a | 3/11/2021 | 75 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-19 | 190 | n/a | 3/11/2021 | 100 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-8 | 190 | n/a | 3/11/2021 | 530 | Yes | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-9 | 190 | n/a | 3/12/2021 | 130 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |

Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:08 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|-------------|----------|-------|----------|------|----|------|-----------|-------|-------|--------|
| Boron (mg/L) | WGWC-8 | 0.199 | 63 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWC-8 | 12.18 | 98 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-5 (bg) | -0.1281 | -63 | -53 | Yes | 15 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWC-8 | 19.96 | 106 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWC-19 | -0.01821 | -89 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWC-9 | -0.1359 | -117 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-4 (bg) | 0.7157 | 79 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWC-8 | 13.18 | 84 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWC-8 | 61.15 | 99 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |

Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:08 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|--------------------------------------|--------------------|-----------------|-------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Boron (mg/L) | WGWA-1 (bg) | 0 | 0 | 58 | No | 16 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-18 (bg) | 0 | 0 | 58 | No | 16 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-2 (bg) | 0 | -27 | -58 | No | 16 | 87.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-3 (bg) | 0 | 0 | 58 | No | 16 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-4 (bg) | 0 | 0 | 58 | No | 16 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-5 (bg) | 0 | 0 | 53 | No | 15 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-6 (bg) | 0 | 0 | 58 | No | 16 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-7 (bg) | 0 | 0 | 58 | No | 16 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGW-16 | -0.8188 | -51 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGW-8 | 0.199 | 63 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGW-9 | 0.04945 | 50 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-1 (bg) | 0.05215 | 50 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-18 (bg) | -1.185 | -38 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-2 (bg) | -0.5121 | -36 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-3 (bg) | 0 | 8 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-4 (bg) | 0 | -19 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-5 (bg) | -0.07827 | -28 | -53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-6 (bg) | 0 | 7 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-7 (bg) | -0.09755 | -32 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGW-8 | 12.18 | 98 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-1 (bg) | 0.1237 | 56 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-18 (bg) | -0.1056 | -32 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-2 (bg) | 0.03627 | 27 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-3 (bg) | 0 | -14 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-4 (bg) | -0.01807 | -51 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-5 (bg) | -0.1281 | -63 | -53 | Yes | 15 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-6 (bg) | 0 | -7 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-7 (bg) | 0 | -7 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGW-16 | -35.21 | -42 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGW-8 | 19.96 | 106 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-1 (bg) | 0 | -27 | -81 | No | 20 | 75 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-18 (bg) | -0.01055 | -72 | -81 | No | 20 | 20 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-2 (bg) | -0.01627 | -73 | -81 | No | 20 | 45 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-3 (bg) | 0 | -33 | -81 | No | 20 | 70 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-4 (bg) | -0.005875 | -62 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-5 (bg) | 0 | 33 | 74 | No | 19 | 89.47 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-6 (bg) | -0.005996 | -75 | -81 | No | 20 | 10 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-7 (bg) | 0 | -10 | -81 | No | 20 | 80 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGW-15 | -0.0422 | -76 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGW-19 | -0.01821 | -89 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGW-9 | -0.1359 | -117 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-1 (bg) | 0 | -21 | -58 | No | 16 | 87.5 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-18 (bg) | -0.8514 | -38 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-2 (bg) | -0.04053 | -21 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-3 (bg) | 0.01618 | 14 | 58 | No | 16 | 6.25 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-4 (bg) | 0.7157 | 79 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-5 (bg) | 0.02834 | 15 | 53 | No | 15 | 26.67 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-6 (bg) | 0 | -3 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-7 (bg) | 0 | -19 | -58 | No | 16 | 68.75 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGW-16 | -77.41 | -29 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGW-8 | 13.18 | 84 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGW-9 | 2.074 | 57 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-1 (bg) | 1.837 | 21 | 58 | No | 16 | 25 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-18 (bg) | -1.093 | -5 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-2 (bg) | 1.593 | 8 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-3 (bg) | 1.928 | 11 | 58 | No | 16 | 6.25 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-4 (bg) | 0.7703 | 17 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-5 (bg) | -0.7739 | -6 | -53 | No | 15 | 13.33 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-6 (bg) | 2.648 | 21 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-7 (bg) | 0.7294 | 6 | 58 | No | 16 | 18.75 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGW-8 | 61.15 | 99 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |

Upper Tolerance Limits Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:09 PM

| <u>Constituent</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------------|-------------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|---------------------|
| Antimony (mg/L) | 0.0022 | n/a | n/a | 111 | n/a | n/a | 98.2 | n/a | n/a | 0.003368 | NP Inter(NDs) |
| Arsenic (mg/L) | 0.0014 | n/a | n/a | 151 | n/a | n/a | 78.15 | n/a | n/a | 0.0004328 | NP Inter(NDs) |
| Barium (mg/L) | 0.062 | n/a | n/a | 151 | n/a | n/a | 0 | n/a | n/a | 0.0004328 | NP Inter(normality) |
| Beryllium (mg/L) | 0.0025 | n/a | n/a | 151 | n/a | n/a | 92.72 | n/a | n/a | 0.0004328 | NP Inter(NDs) |
| Cadmium (mg/L) | 0.0025 | n/a | n/a | 143 | n/a | n/a | 100 | n/a | n/a | 0.0006523 | NP Inter(NDs) |
| Chromium (mg/L) | 0.0049 | n/a | n/a | 151 | n/a | n/a | 94.7 | n/a | n/a | 0.0004328 | NP Inter(NDs) |
| Cobalt (mg/L) | 0.013 | n/a | n/a | 150 | n/a | n/a | 46.67 | n/a | n/a | 0.0004556 | NP Inter(normality) |
| Combined Radium 226 + 228 (pCi/L) | 10.4 | n/a | n/a | 148 | n/a | n/a | 0 | n/a | n/a | 0.0005048 | NP Inter(normality) |
| Fluoride (mg/L) | 0.284 | n/a | n/a | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.0002871 | NP Inter(normality) |
| Lead (mg/L) | 0.001 | n/a | n/a | 135 | n/a | n/a | 87.41 | n/a | n/a | 0.0009833 | NP Inter(NDs) |
| Lithium (mg/L) | 0.009 | n/a | n/a | 141 | n/a | n/a | 49.65 | n/a | n/a | 0.0007228 | NP Inter(normality) |
| Mercury (mg/L) | 0.0002 | n/a | n/a | 127 | n/a | n/a | 88.98 | n/a | n/a | 0.001482 | NP Inter(NDs) |
| Molybdenum (mg/L) | 0.015 | n/a | n/a | 150 | n/a | n/a | 89.33 | n/a | n/a | 0.0004556 | NP Inter(NDs) |
| Selenium (mg/L) | 0.005 | n/a | n/a | 151 | n/a | n/a | 94.04 | n/a | n/a | 0.0004328 | NP Inter(NDs) |
| Thallium (mg/L) | 0.001 | n/a | n/a | 151 | n/a | n/a | 91.39 | n/a | n/a | 0.0004328 | NP Inter(NDs) |

| WANSLEY AP GWPS | | | | | |
|--------------------------------|------------|---------------------------|-------------------|---------------------|-------------------|
| Constituent Name | MCL | CCR-Rule Specified | Background | Federal GWPS | State GWPS |
| Antimony, Total (mg/L) | 0.006 | | 0.0022 | 0.006 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.0014 | 0.01 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.062 | 2 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.0025 | 0.004 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.0025 | 0.005 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0049 | 0.1 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.013 | 0.013 | 0.013 |
| Combined Radium, Total (pCi/L) | 5 | | 10.4 | 10.4 | 10.4 |
| Fluoride, Total (mg/L) | 4 | | 0.284 | 4 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.001 | 0.015 | 0.001 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.009 | 0.04 | 0.009 |
| Mercury, Total (mg/L) | 0.002 | | 0.0002 | 0.002 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.015 | 0.1 | 0.015 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 | 0.002 |

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

Highlighted cells indicate background is higher than established limit.

Federal Confidence Intervals - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:19 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>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|-------------|----------------|------------------|--------------|---------------|
| Lithium (mg/L) | WGWC-19 | 0.05511 | 0.04727 | 0.04 | Yes | 19 | 0.05147 | 0.007214 | 0 | None | In(x) | 0.01 | Param. |

Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:19 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|----------|------------|------------|------------|------|----|-----------|------------|-------|--------------|-----------|-------|----------------|
| Antimony (mg/L) | WGWC-12 | 0.0023 | 0.002 | 0.006 | No | 14 | 0.002021 | 0.00008018 | 92.86 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | WGWC-9 | 0.002 | 0.0011 | 0.006 | No | 14 | 0.001709 | 0.0005998 | 78.57 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-10 | 0.001 | 0.0005 | 0.01 | No | 19 | 0.0008647 | 0.0002579 | 73.68 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-11 | 0.001 | 0.00054 | 0.01 | No | 19 | 0.0009221 | 0.0001852 | 84.21 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-12 | 0.001 | 0.00052 | 0.01 | No | 19 | 0.0009474 | 0.0001578 | 89.47 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-13 | 0.001 | 0.00039 | 0.01 | No | 19 | 0.0007705 | 0.0003275 | 42.11 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | WGWC-14A | 0.0017 | 0.00095 | 0.01 | No | 19 | 0.001255 | 0.0005979 | 63.16 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-15 | 0.002218 | 0.001316 | 0.01 | No | 19 | 0.001767 | 0.0007698 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | WGWC-16 | 0.0014 | 0.0009 | 0.01 | No | 19 | 0.001166 | 0.000338 | 47.37 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | WGWC-17 | 0.001 | 0.00058 | 0.01 | No | 19 | 0.0008316 | 0.0002108 | 47.37 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | WGWC-8 | 0.0011 | 0.00071 | 0.01 | No | 19 | 0.0009447 | 0.000273 | 52.63 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-9 | 0.0017 | 0.00078 | 0.01 | No | 19 | 0.0009974 | 0.0002133 | 84.21 | None | No | 0.01 | NP (NDs) |
| Barium (mg/L) | WGWC-10 | 0.041 | 0.035 | 2 | No | 19 | 0.0389 | 0.006385 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-11 | 0.04001 | 0.03165 | 2 | No | 19 | 0.03632 | 0.008138 | 0 | None | ln(x) | 0.01 | Param. |
| Barium (mg/L) | WGWC-12 | 0.0214 | 0.015 | 2 | No | 19 | 0.01718 | 0.004267 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-13 | 0.05663 | 0.046 | 2 | No | 19 | 0.05132 | 0.009074 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | WGWC-14A | 0.04655 | 0.03101 | 2 | No | 19 | 0.03947 | 0.01419 | 0 | None | sqrt(x) | 0.01 | Param. |
| Barium (mg/L) | WGWC-15 | 0.02388 | 0.01998 | 2 | No | 19 | 0.02193 | 0.003332 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | WGWC-16 | 0.068 | 0.034 | 2 | No | 19 | 0.04971 | 0.01622 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-17 | 0.019 | 0.011 | 2 | No | 19 | 0.01515 | 0.004036 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-19 | 0.005 | 0.0012 | 2 | No | 19 | 0.002804 | 0.001937 | 31.58 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-8 | 0.005 | 0.001 | 2 | No | 19 | 0.002962 | 0.001771 | 36.84 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-9 | 0.005 | 0.00076 | 2 | No | 19 | 0.002486 | 0.001832 | 31.58 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | WGWC-14A | 0.0025 | 0.00025 | 0.004 | No | 19 | 0.001788 | 0.001076 | 68.42 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | WGWC-16 | 0.0025 | 0.00022 | 0.004 | No | 19 | 0.00238 | 0.0005231 | 94.74 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | WGWC-8 | 0.002122 | 0.001547 | 0.004 | No | 19 | 0.001834 | 0.0004906 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | WGWC-9 | 0.0025 | 0.00036 | 0.004 | No | 19 | 0.001387 | 0.001086 | 47.37 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | WGWC-10 | 0.002055 | 0.001385 | 0.1 | No | 19 | 0.001989 | 0.0005705 | 15.79 | Kaplan-Meier | No | 0.01 | Param. |
| Chromium (mg/L) | WGWC-11 | 0.0021 | 0.0017 | 0.1 | No | 19 | 0.0019 | 0.0002749 | 78.95 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-13 | 0.002 | 0.0019 | 0.1 | No | 19 | 0.001984 | 0.00005015 | 89.47 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-14A | 0.002 | 0.0017 | 0.1 | No | 19 | 0.001984 | 0.00006882 | 94.74 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-15 | 0.002 | 0.0015 | 0.1 | No | 19 | 0.001974 | 0.0001147 | 94.74 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-9 | 0.0025 | 0.002 | 0.1 | No | 19 | 0.002026 | 0.0001147 | 94.74 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | WGWC-10 | 0.001624 | 0.0007953 | 0.013 | No | 19 | 0.001274 | 0.0008063 | 5.263 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | WGWC-11 | 0.0025 | 0.00064 | 0.013 | No | 19 | 0.001612 | 0.0009174 | 36.84 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-12 | 0.001165 | 0.0004782 | 0.013 | No | 19 | 0.0008879 | 0.0006689 | 5.263 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | WGWC-13 | 0.0025 | 0.00054 | 0.013 | No | 19 | 0.001957 | 0.0009403 | 73.68 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | WGWC-14A | 0.013 | 0.0041 | 0.013 | No | 19 | 0.008116 | 0.004234 | 0 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-15 | 0.0025 | 0.00015 | 0.013 | No | 19 | 0.002376 | 0.0005391 | 94.74 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | WGWC-16 | 0.014 | 0.00026 | 0.013 | No | 19 | 0.006965 | 0.006383 | 5.263 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-17 | 0.001683 | 0.0007808 | 0.013 | No | 19 | 0.001232 | 0.0007708 | 5.263 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | WGWC-19 | 0.0025 | 0.00024 | 0.013 | No | 19 | 0.001357 | 0.001119 | 47.37 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-8 | 0.0028 | 0.00066 | 0.013 | No | 19 | 0.001889 | 0.0009969 | 47.37 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-9 | 0.0025 | 0.00073 | 0.013 | No | 19 | 0.002407 | 0.0004061 | 94.74 | None | No | 0.01 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | WGWC-10 | 0.4447 | 0.1625 | 10.4 | No | 19 | 0.3036 | 0.241 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-11 | 0.6324 | 0.1607 | 10.4 | No | 19 | 0.3966 | 0.4028 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-12 | 0.6056 | 0.1662 | 10.4 | No | 19 | 0.3859 | 0.3752 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-13 | 0.776 | 0.4499 | 10.4 | No | 19 | 0.6129 | 0.2785 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-14A | 0.8302 | 0.5225 | 10.4 | No | 19 | 0.6987 | 0.3093 | 0 | None | x^(1/3) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-15 | 0.6444 | 0.2927 | 10.4 | No | 19 | 0.4988 | 0.3527 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-16 | 1.819 | 0.7854 | 10.4 | No | 19 | 1.396 | 0.9186 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-17 | 0.5319 | 0.09894 | 10.4 | No | 19 | 0.3154 | 0.3697 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-19 | 0.511 | 0.126 | 10.4 | No | 19 | 0.3426 | 0.3052 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | WGWC-8 | 1.951 | 1.293 | 10.4 | No | 19 | 1.622 | 0.5619 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-9 | 0.4151 | 0.1467 | 10.4 | No | 19 | 0.2809 | 0.2292 | 0 | None | No | 0.01 | Param. |

Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:19 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|----------------|----------------|----------------|-------------|------------|-----------|----------------|-----------------|----------|--------------|--------------|-------------|----------------|
| Fluoride (mg/L) | WGWC-10 | 0.176 | 0.1288 | 4 | No | 20 | 0.1524 | 0.04163 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-11 | 0.1 | 0.045 | 4 | No | 20 | 0.08335 | 0.03667 | 60 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | WGWC-12 | 0.09725 | 0.07366 | 4 | No | 20 | 0.09225 | 0.0206 | 20 | Kaplan-Meier | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-13 | 0.2939 | 0.2135 | 4 | No | 20 | 0.2537 | 0.07082 | 5 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-14A | 0.1 | 0.04 | 4 | No | 20 | 0.0812 | 0.02968 | 70 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | WGWC-15 | 0.871 | 0.7709 | 4 | No | 20 | 0.821 | 0.08822 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-16 | 0.1736 | 0.07849 | 4 | No | 20 | 0.1598 | 0.1859 | 10 | None | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-17 | 0.1379 | 0.08713 | 4 | No | 20 | 0.1125 | 0.04468 | 5 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-19 | 0.375 | 0.322 | 4 | No | 20 | 0.3485 | 0.0466 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-8 | 0.3489 | 0.1996 | 4 | No | 20 | 0.2743 | 0.1315 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-9 | 1.521 | 1.198 | 4 | No | 20 | 1.36 | 0.2849 | 0 | None | No | 0.01 | Param. |
| Lead (mg/L) | WGWC-10 | 0.001 | 0.00021 | 0.015 | No | 17 | 0.0006853 | 0.0003923 | 58.82 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-11 | 0.001 | 0.00058 | 0.015 | No | 17 | 0.0009018 | 0.0002227 | 82.35 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-13 | 0.001 | 0.00047 | 0.015 | No | 17 | 0.0007529 | 0.0002551 | 47.06 | None | No | 0.01 | NP (normality) |
| Lead (mg/L) | WGWC-14A | 0.001 | 0.00031 | 0.015 | No | 17 | 0.0008112 | 0.0003525 | 76.47 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-15 | 0.001 | 0.0003 | 0.015 | No | 17 | 0.0009588 | 0.0001698 | 94.12 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-16 | 0.001 | 0.00014 | 0.015 | No | 17 | 0.0008982 | 0.0002873 | 88.24 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-17 | 0.001 | 0.00033 | 0.015 | No | 17 | 0.0009135 | 0.0002452 | 88.24 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-8 | 0.001 | 0.00017 | 0.015 | No | 17 | 0.0007994 | 0.0003729 | 76.47 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-9 | 0.001 | 0.00014 | 0.015 | No | 17 | 0.0009494 | 0.0002086 | 94.12 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-10 | 0.01493 | 0.007503 | 0.04 | No | 19 | 0.01177 | 0.007138 | 0 | None | sqrt(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-11 | 0.005 | 0.0018 | 0.04 | No | 19 | 0.004437 | 0.001341 | 84.21 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-12 | 0.007846 | 0.006125 | 0.04 | No | 19 | 0.006821 | 0.001782 | 5.263 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | WGWC-13 | 0.005 | 0.0037 | 0.04 | No | 19 | 0.004421 | 0.001082 | 73.68 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-14A | 0.005 | 0.0025 | 0.04 | No | 19 | 0.004111 | 0.001325 | 63.16 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-15 | 0.007289 | 0.005532 | 0.04 | No | 19 | 0.006411 | 0.001501 | 10.53 | None | No | 0.01 | Param. |
| Lithium (mg/L) | WGWC-16 | 0.01057 | 0.006798 | 0.04 | No | 19 | 0.008684 | 0.003222 | 5.263 | None | No | 0.01 | Param. |
| Lithium (mg/L) | WGWC-17 | 0.005639 | 0.004704 | 0.04 | No | 19 | 0.005211 | 0.0008379 | 5.263 | None | ln(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-19 | 0.05511 | 0.04727 | 0.04 | Yes | 19 | 0.05147 | 0.007214 | 0 | None | ln(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-8 | 0.018 | 0.013 | 0.04 | No | 19 | 0.01724 | 0.0103 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | WGWC-9 | 0.03842 | 0.03279 | 0.04 | No | 19 | 0.03561 | 0.004809 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | WGWC-10 | 0.015 | 0.00093 | 0.1 | No | 19 | 0.01352 | 0.004439 | 89.47 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-11 | 0.015 | 0.0017 | 0.1 | No | 19 | 0.01357 | 0.004289 | 89.47 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-12 | 0.015 | 0.0009 | 0.1 | No | 19 | 0.01071 | 0.006545 | 68.42 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-13 | 0.00491 | 0.0016 | 0.1 | No | 19 | 0.004216 | 0.004868 | 15.79 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | WGWC-14A | 0.015 | 0.001 | 0.1 | No | 19 | 0.01426 | 0.003212 | 94.74 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-15 | 0.006785 | 0.003297 | 0.1 | No | 19 | 0.005316 | 0.003485 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | WGWC-17 | 0.005469 | 0.002641 | 0.1 | No | 19 | 0.004279 | 0.002553 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | WGWC-19 | 0.015 | 0.0012 | 0.1 | No | 19 | 0.006347 | 0.006791 | 36.84 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | WGWC-9 | 0.0071 | 0.003 | 0.1 | No | 19 | 0.005396 | 0.003456 | 0 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | WGWC-10 | 0.005 | 0.00031 | 0.05 | No | 19 | 0.004753 | 0.001076 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-11 | 0.005 | 0.00049 | 0.05 | No | 19 | 0.004763 | 0.001035 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-12 | 0.005 | 0.0021 | 0.05 | No | 19 | 0.004847 | 0.0006653 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-14A | 0.005 | 0.0003 | 0.05 | No | 19 | 0.004753 | 0.001078 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-15 | 0.005 | 0.0005 | 0.05 | No | 19 | 0.004763 | 0.001032 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-16 | 0.0111 | 0.005817 | 0.05 | No | 19 | 0.008461 | 0.004514 | 0 | None | No | 0.01 | Param. |
| Selenium (mg/L) | WGWC-19 | 0.005 | 0.00036 | 0.05 | No | 19 | 0.004756 | 0.001064 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-8 | 0.003858 | 0.003102 | 0.05 | No | 19 | 0.003504 | 0.0006592 | 0 | None | x^(1/3) | 0.01 | Param. |
| Selenium (mg/L) | WGWC-9 | 0.002823 | 0.002196 | 0.05 | No | 19 | 0.002509 | 0.0005347 | 0 | None | No | 0.01 | Param. |
| Thallium (mg/L) | WGWC-10 | 0.001 | 0.000085 | 0.002 | No | 19 | 0.0009518 | 0.0002099 | 94.74 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | WGWC-11 | 0.001 | 0.00016 | 0.002 | No | 19 | 0.0009558 | 0.0001927 | 94.74 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | WGWC-14A | 0.001 | 0.00013 | 0.002 | No | 19 | 0.0005142 | 0.0004267 | 42.11 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | WGWC-16 | 0.001 | 0.00015 | 0.002 | No | 19 | 0.0004768 | 0.0004122 | 36.84 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | WGWC-19 | 0.001 | 0.00018 | 0.002 | No | 19 | 0.0009568 | 0.0001881 | 94.74 | None | No | 0.01 | NP (NDs) |

State Confidence Intervals - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:14 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>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|-------------|----------------|------------------|--------------|----------------|
| Lithium (mg/L) | WGWC-19 | 0.05511 | 0.04727 | 0.009 | Yes | 19 | 0.05147 | 0.007214 | 0 | None | In(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-8 | 0.018 | 0.013 | 0.009 | Yes | 19 | 0.01724 | 0.0103 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | WGWC-9 | 0.03842 | 0.03279 | 0.009 | Yes | 19 | 0.03561 | 0.004809 | 0 | None | No | 0.01 | Param. |

State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:14 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|----------|------------|------------|------------|------|----|-----------|------------|-------|--------------|-----------|-------|----------------|
| Antimony (mg/L) | WGWC-12 | 0.0023 | 0.002 | 0.006 | No | 14 | 0.002021 | 0.00008018 | 92.86 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | WGWC-9 | 0.002 | 0.0011 | 0.006 | No | 14 | 0.001709 | 0.0005998 | 78.57 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-10 | 0.001 | 0.0005 | 0.01 | No | 19 | 0.0008647 | 0.0002579 | 73.68 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-11 | 0.001 | 0.00054 | 0.01 | No | 19 | 0.0009221 | 0.0001852 | 84.21 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-12 | 0.001 | 0.00052 | 0.01 | No | 19 | 0.0009474 | 0.0001578 | 89.47 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-13 | 0.001 | 0.00039 | 0.01 | No | 19 | 0.0007705 | 0.0003275 | 42.11 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | WGWC-14A | 0.0017 | 0.00095 | 0.01 | No | 19 | 0.001255 | 0.0005979 | 63.16 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-15 | 0.002218 | 0.001316 | 0.01 | No | 19 | 0.001767 | 0.0007698 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | WGWC-16 | 0.0014 | 0.0009 | 0.01 | No | 19 | 0.001166 | 0.000338 | 47.37 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | WGWC-17 | 0.001 | 0.00058 | 0.01 | No | 19 | 0.0008316 | 0.0002108 | 47.37 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | WGWC-8 | 0.0011 | 0.00071 | 0.01 | No | 19 | 0.0009447 | 0.000273 | 52.63 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-9 | 0.0017 | 0.00078 | 0.01 | No | 19 | 0.0009974 | 0.0002133 | 84.21 | None | No | 0.01 | NP (NDs) |
| Barium (mg/L) | WGWC-10 | 0.041 | 0.035 | 2 | No | 19 | 0.0389 | 0.006385 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-11 | 0.04001 | 0.03165 | 2 | No | 19 | 0.03632 | 0.008138 | 0 | None | ln(x) | 0.01 | Param. |
| Barium (mg/L) | WGWC-12 | 0.0214 | 0.015 | 2 | No | 19 | 0.01718 | 0.004267 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-13 | 0.05663 | 0.046 | 2 | No | 19 | 0.05132 | 0.009074 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | WGWC-14A | 0.04655 | 0.03101 | 2 | No | 19 | 0.03947 | 0.01419 | 0 | None | sqrt(x) | 0.01 | Param. |
| Barium (mg/L) | WGWC-15 | 0.02388 | 0.01998 | 2 | No | 19 | 0.02193 | 0.003332 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | WGWC-16 | 0.068 | 0.034 | 2 | No | 19 | 0.04971 | 0.01622 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-17 | 0.019 | 0.011 | 2 | No | 19 | 0.01515 | 0.004036 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-19 | 0.005 | 0.0012 | 2 | No | 19 | 0.002804 | 0.001937 | 31.58 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-8 | 0.005 | 0.001 | 2 | No | 19 | 0.002962 | 0.001771 | 36.84 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-9 | 0.005 | 0.00076 | 2 | No | 19 | 0.002486 | 0.001832 | 31.58 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | WGWC-14A | 0.0025 | 0.00025 | 0.004 | No | 19 | 0.001788 | 0.001076 | 68.42 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | WGWC-16 | 0.0025 | 0.00022 | 0.004 | No | 19 | 0.00238 | 0.0005231 | 94.74 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | WGWC-8 | 0.002122 | 0.001547 | 0.004 | No | 19 | 0.001834 | 0.0004906 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | WGWC-9 | 0.0025 | 0.00036 | 0.004 | No | 19 | 0.001387 | 0.001086 | 47.37 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | WGWC-10 | 0.002055 | 0.001385 | 0.1 | No | 19 | 0.001989 | 0.0005705 | 15.79 | Kaplan-Meier | No | 0.01 | Param. |
| Chromium (mg/L) | WGWC-11 | 0.0021 | 0.0017 | 0.1 | No | 19 | 0.0019 | 0.0002749 | 78.95 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-13 | 0.002 | 0.0019 | 0.1 | No | 19 | 0.001984 | 0.00005015 | 89.47 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-14A | 0.002 | 0.0017 | 0.1 | No | 19 | 0.001984 | 0.00006882 | 94.74 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-15 | 0.002 | 0.0015 | 0.1 | No | 19 | 0.001974 | 0.0001147 | 94.74 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-9 | 0.0025 | 0.002 | 0.1 | No | 19 | 0.002026 | 0.0001147 | 94.74 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | WGWC-10 | 0.001624 | 0.0007953 | 0.013 | No | 19 | 0.001274 | 0.0008063 | 5.263 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | WGWC-11 | 0.0025 | 0.00064 | 0.013 | No | 19 | 0.001612 | 0.0009174 | 36.84 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-12 | 0.001165 | 0.0004782 | 0.013 | No | 19 | 0.0008879 | 0.0006689 | 5.263 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | WGWC-13 | 0.0025 | 0.00054 | 0.013 | No | 19 | 0.001957 | 0.0009403 | 73.68 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | WGWC-14A | 0.013 | 0.0041 | 0.013 | No | 19 | 0.008116 | 0.004234 | 0 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-15 | 0.0025 | 0.00015 | 0.013 | No | 19 | 0.002376 | 0.0005391 | 94.74 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | WGWC-16 | 0.014 | 0.00026 | 0.013 | No | 19 | 0.006965 | 0.006383 | 5.263 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-17 | 0.001683 | 0.0007808 | 0.013 | No | 19 | 0.001232 | 0.0007708 | 5.263 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | WGWC-19 | 0.0025 | 0.00024 | 0.013 | No | 19 | 0.001357 | 0.001119 | 47.37 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-8 | 0.0028 | 0.00066 | 0.013 | No | 19 | 0.001889 | 0.0009969 | 47.37 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-9 | 0.0025 | 0.00073 | 0.013 | No | 19 | 0.002407 | 0.0004061 | 94.74 | None | No | 0.01 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | WGWC-10 | 0.4447 | 0.1625 | 10.4 | No | 19 | 0.3036 | 0.241 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-11 | 0.6324 | 0.1607 | 10.4 | No | 19 | 0.3966 | 0.4028 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-12 | 0.6056 | 0.1662 | 10.4 | No | 19 | 0.3859 | 0.3752 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-13 | 0.776 | 0.4499 | 10.4 | No | 19 | 0.6129 | 0.2785 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-14A | 0.8302 | 0.5225 | 10.4 | No | 19 | 0.6987 | 0.3093 | 0 | None | x^(1/3) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-15 | 0.6444 | 0.2927 | 10.4 | No | 19 | 0.4988 | 0.3527 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-16 | 1.819 | 0.7854 | 10.4 | No | 19 | 1.396 | 0.9186 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-17 | 0.5319 | 0.09894 | 10.4 | No | 19 | 0.3154 | 0.3697 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-19 | 0.511 | 0.126 | 10.4 | No | 19 | 0.3426 | 0.3052 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | WGWC-8 | 1.951 | 1.293 | 10.4 | No | 19 | 1.622 | 0.5619 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-9 | 0.4151 | 0.1467 | 10.4 | No | 19 | 0.2809 | 0.2292 | 0 | None | No | 0.01 | Param. |

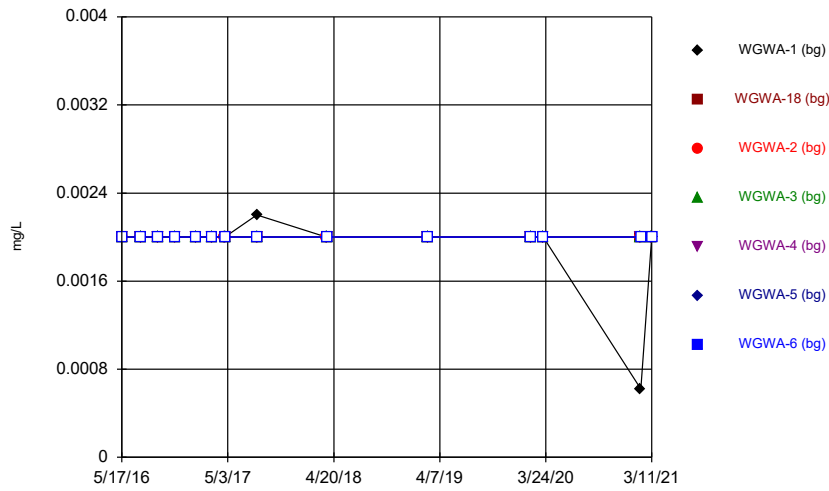
State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:14 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|----------------|----------------|----------------|--------------|------------|-----------|----------------|-----------------|----------|--------------|--------------|-------------|-----------------------|
| Fluoride (mg/L) | WGWC-10 | 0.176 | 0.1288 | 4 | No | 20 | 0.1524 | 0.04163 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-11 | 0.1 | 0.045 | 4 | No | 20 | 0.08335 | 0.03667 | 60 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | WGWC-12 | 0.09725 | 0.07366 | 4 | No | 20 | 0.09225 | 0.0206 | 20 | Kaplan-Meier | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-13 | 0.2939 | 0.2135 | 4 | No | 20 | 0.2537 | 0.07082 | 5 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-14A | 0.1 | 0.04 | 4 | No | 20 | 0.0812 | 0.02968 | 70 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | WGWC-15 | 0.871 | 0.7709 | 4 | No | 20 | 0.821 | 0.08822 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-16 | 0.1736 | 0.07849 | 4 | No | 20 | 0.1598 | 0.1859 | 10 | None | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-17 | 0.1379 | 0.08713 | 4 | No | 20 | 0.1125 | 0.04468 | 5 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-19 | 0.375 | 0.322 | 4 | No | 20 | 0.3485 | 0.0466 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-8 | 0.3489 | 0.1996 | 4 | No | 20 | 0.2743 | 0.1315 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-9 | 1.521 | 1.198 | 4 | No | 20 | 1.36 | 0.2849 | 0 | None | No | 0.01 | Param. |
| Lead (mg/L) | WGWC-10 | 0.001 | 0.00021 | 0.001 | No | 17 | 0.0006853 | 0.0003923 | 58.82 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-11 | 0.001 | 0.00058 | 0.001 | No | 17 | 0.0009018 | 0.0002227 | 82.35 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-13 | 0.001 | 0.00047 | 0.001 | No | 17 | 0.0007529 | 0.0002551 | 47.06 | None | No | 0.01 | NP (normality) |
| Lead (mg/L) | WGWC-14A | 0.001 | 0.00031 | 0.001 | No | 17 | 0.0008112 | 0.0003525 | 76.47 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-15 | 0.001 | 0.0003 | 0.001 | No | 17 | 0.0009588 | 0.0001698 | 94.12 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-16 | 0.001 | 0.00014 | 0.001 | No | 17 | 0.0008982 | 0.0002873 | 88.24 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-17 | 0.001 | 0.00033 | 0.001 | No | 17 | 0.0009135 | 0.0002452 | 88.24 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-8 | 0.001 | 0.00017 | 0.001 | No | 17 | 0.0007994 | 0.0003729 | 76.47 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-9 | 0.001 | 0.00014 | 0.001 | No | 17 | 0.0009494 | 0.0002086 | 94.12 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-10 | 0.01493 | 0.007503 | 0.009 | No | 19 | 0.01177 | 0.007138 | 0 | None | sqrt(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-11 | 0.005 | 0.0018 | 0.009 | No | 19 | 0.004437 | 0.001341 | 84.21 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-12 | 0.007846 | 0.006125 | 0.009 | No | 19 | 0.006821 | 0.001782 | 5.263 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | WGWC-13 | 0.005 | 0.0037 | 0.009 | No | 19 | 0.004421 | 0.001082 | 73.68 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-14A | 0.005 | 0.0025 | 0.009 | No | 19 | 0.004111 | 0.001325 | 63.16 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-15 | 0.007289 | 0.005532 | 0.009 | No | 19 | 0.006411 | 0.001501 | 10.53 | None | No | 0.01 | Param. |
| Lithium (mg/L) | WGWC-16 | 0.01057 | 0.006798 | 0.009 | No | 19 | 0.008684 | 0.003222 | 5.263 | None | No | 0.01 | Param. |
| Lithium (mg/L) | WGWC-17 | 0.005639 | 0.004704 | 0.009 | No | 19 | 0.005211 | 0.0008379 | 5.263 | None | ln(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-19 | 0.05511 | 0.04727 | 0.009 | Yes | 19 | 0.05147 | 0.007214 | 0 | None | ln(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-8 | 0.018 | 0.013 | 0.009 | Yes | 19 | 0.01724 | 0.0103 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | WGWC-9 | 0.03842 | 0.03279 | 0.009 | Yes | 19 | 0.03561 | 0.004809 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | WGWC-10 | 0.015 | 0.00093 | 0.015 | No | 19 | 0.01352 | 0.004439 | 89.47 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-11 | 0.015 | 0.0017 | 0.015 | No | 19 | 0.01357 | 0.004289 | 89.47 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-12 | 0.015 | 0.0009 | 0.015 | No | 19 | 0.01071 | 0.006545 | 68.42 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-13 | 0.00491 | 0.0016 | 0.015 | No | 19 | 0.004216 | 0.004868 | 15.79 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | WGWC-14A | 0.015 | 0.001 | 0.015 | No | 19 | 0.01426 | 0.003212 | 94.74 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-15 | 0.006785 | 0.003297 | 0.015 | No | 19 | 0.005316 | 0.003485 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | WGWC-17 | 0.005469 | 0.002641 | 0.015 | No | 19 | 0.004279 | 0.002553 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | WGWC-19 | 0.015 | 0.0012 | 0.015 | No | 19 | 0.006347 | 0.006791 | 36.84 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | WGWC-9 | 0.0071 | 0.003 | 0.015 | No | 19 | 0.005396 | 0.003456 | 0 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | WGWC-10 | 0.005 | 0.00031 | 0.05 | No | 19 | 0.004753 | 0.001076 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-11 | 0.005 | 0.00049 | 0.05 | No | 19 | 0.004763 | 0.001035 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-12 | 0.005 | 0.0021 | 0.05 | No | 19 | 0.004847 | 0.0006653 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-14A | 0.005 | 0.0003 | 0.05 | No | 19 | 0.004753 | 0.001078 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-15 | 0.005 | 0.0005 | 0.05 | No | 19 | 0.004763 | 0.001032 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-16 | 0.0111 | 0.005817 | 0.05 | No | 19 | 0.008461 | 0.004514 | 0 | None | No | 0.01 | Param. |
| Selenium (mg/L) | WGWC-19 | 0.005 | 0.00036 | 0.05 | No | 19 | 0.004756 | 0.001064 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-8 | 0.003858 | 0.003102 | 0.05 | No | 19 | 0.003504 | 0.0006592 | 0 | None | x^(1/3) | 0.01 | Param. |
| Selenium (mg/L) | WGWC-9 | 0.002823 | 0.002196 | 0.05 | No | 19 | 0.002509 | 0.0005347 | 0 | None | No | 0.01 | Param. |
| Thallium (mg/L) | WGWC-10 | 0.001 | 0.000085 | 0.002 | No | 19 | 0.0009518 | 0.0002099 | 94.74 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | WGWC-11 | 0.001 | 0.00016 | 0.002 | No | 19 | 0.0009558 | 0.0001927 | 94.74 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | WGWC-14A | 0.001 | 0.00013 | 0.002 | No | 19 | 0.0005142 | 0.0004267 | 42.11 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | WGWC-16 | 0.001 | 0.00015 | 0.002 | No | 19 | 0.0004768 | 0.0004122 | 36.84 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | WGWC-19 | 0.001 | 0.00018 | 0.002 | No | 19 | 0.0009568 | 0.0001881 | 94.74 | None | No | 0.01 | NP (NDs) |

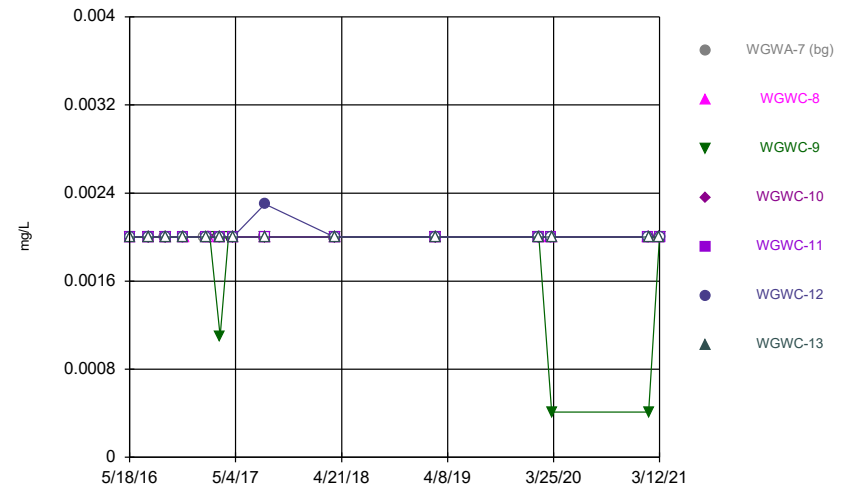
FIGURE A.

Time Series



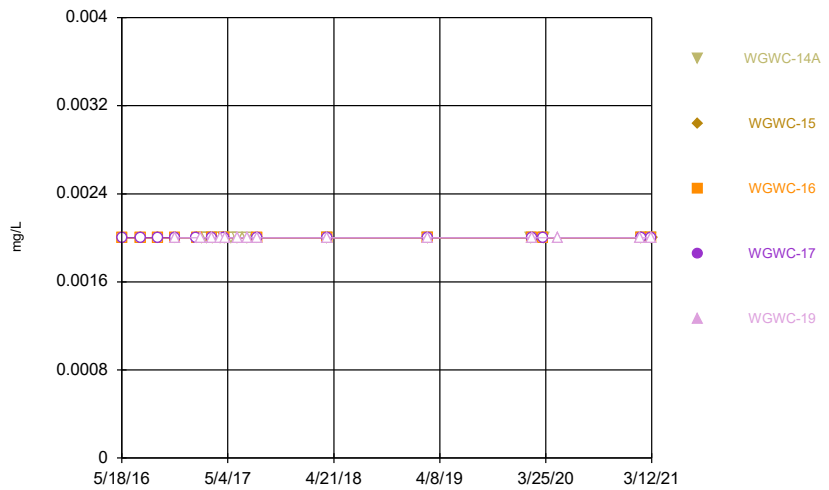
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



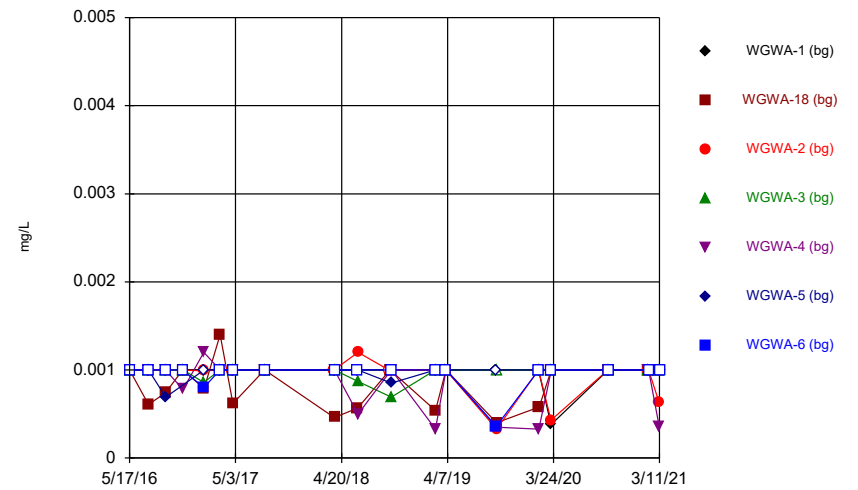
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Time Series



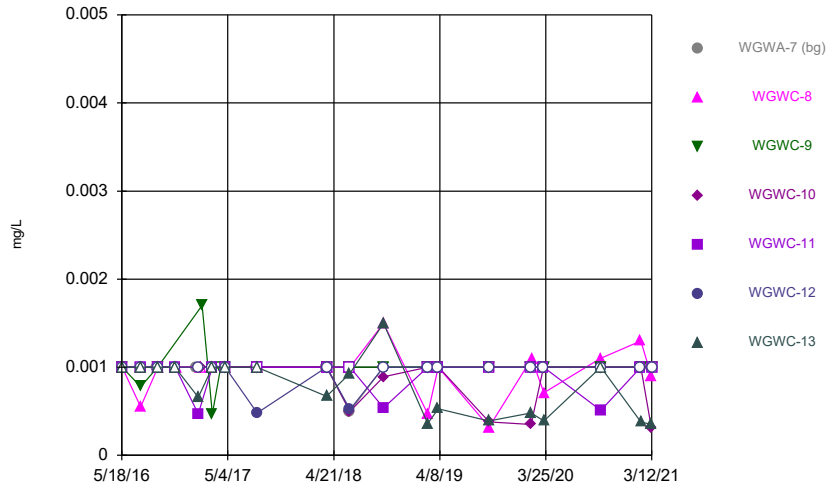
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Time Series



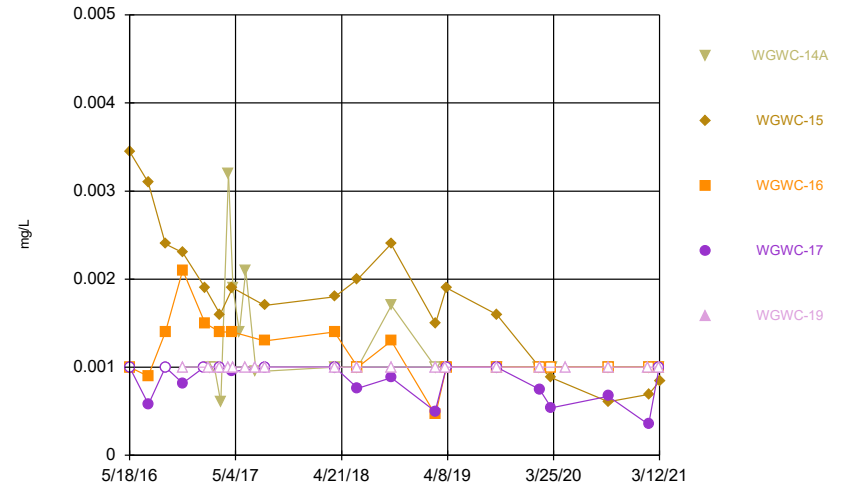
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Time Series



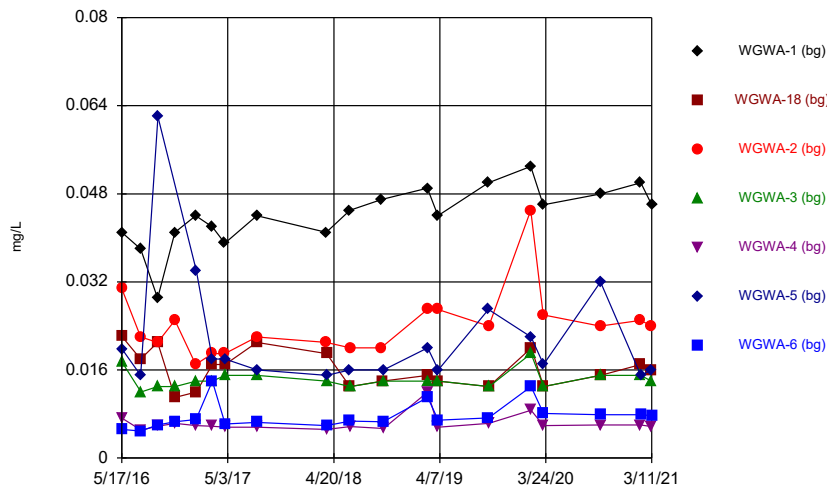
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



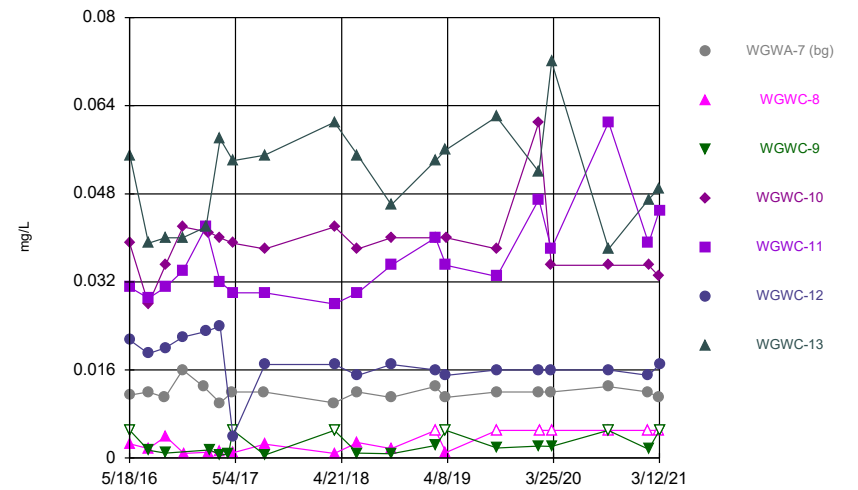
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Time Series



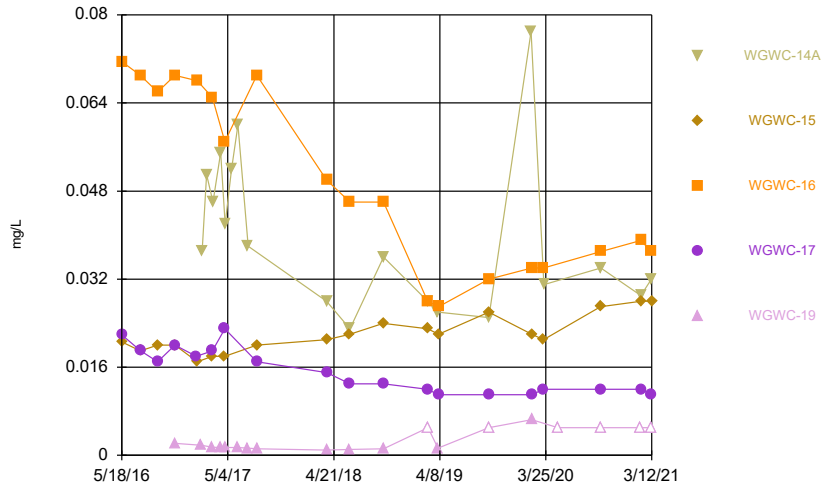
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Time Series



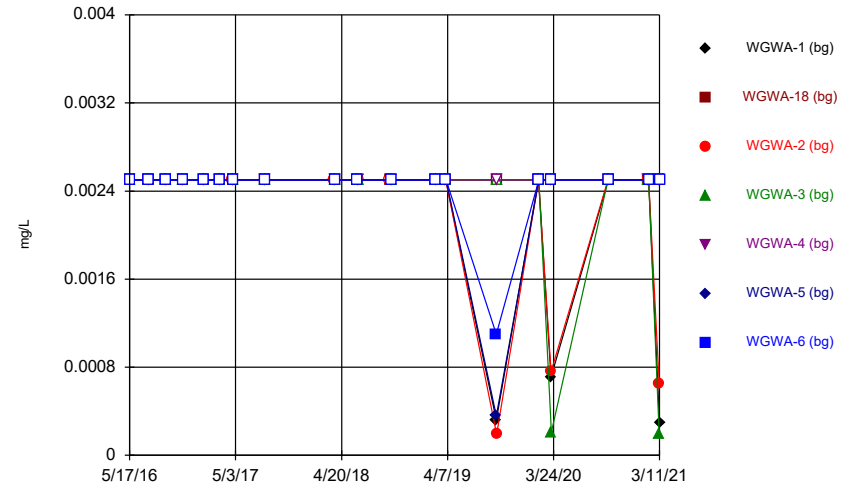
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



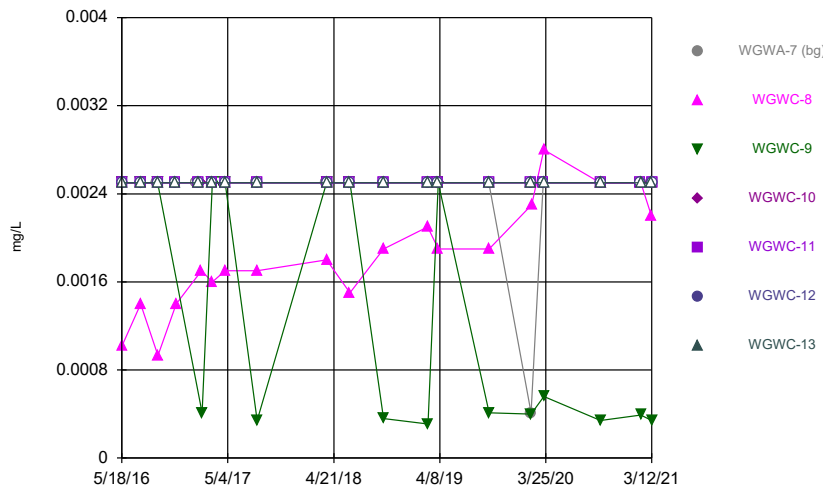
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Time Series



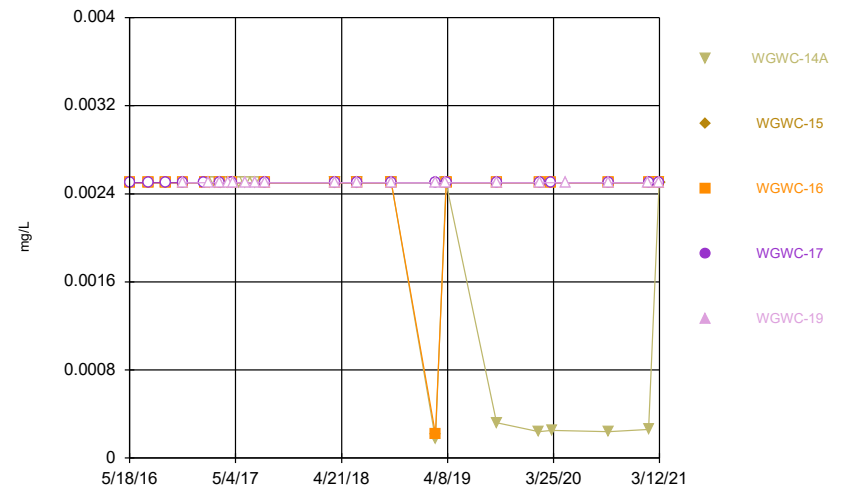
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



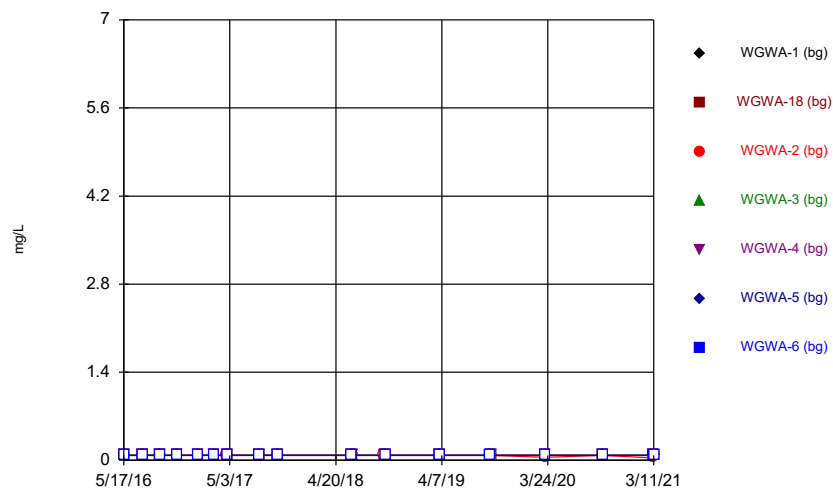
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



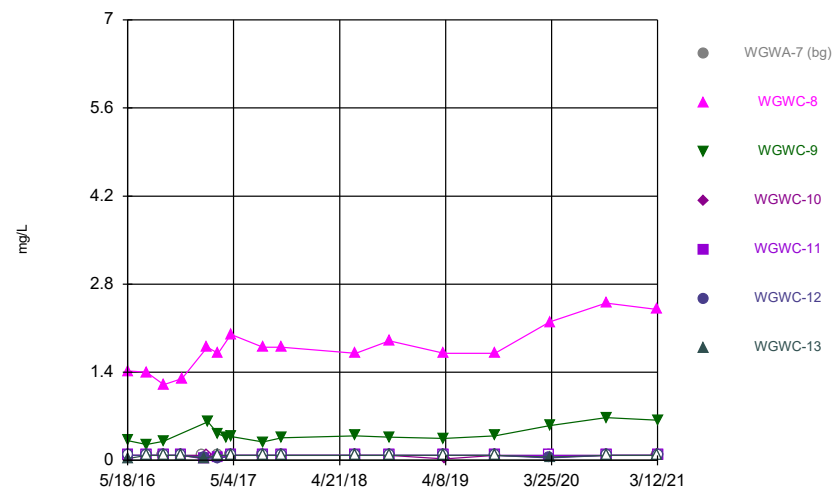
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



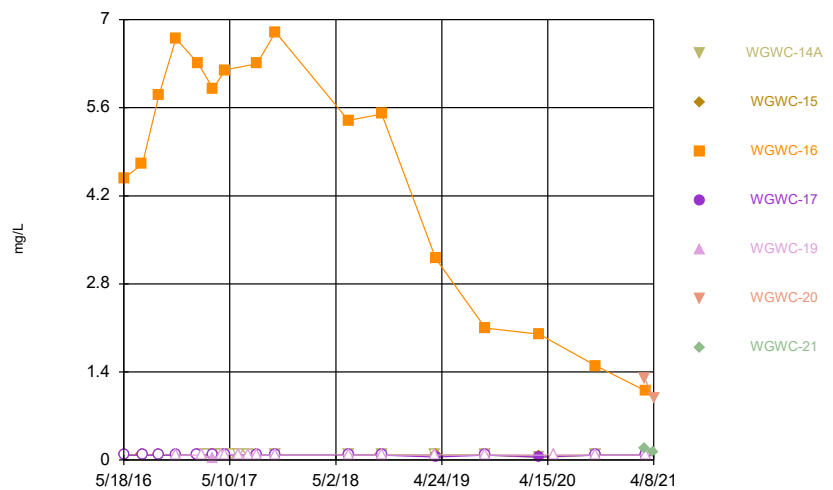
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



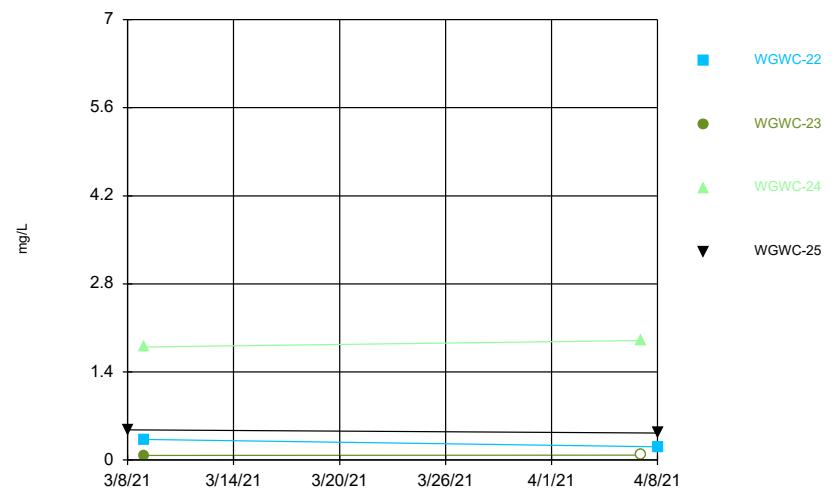
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



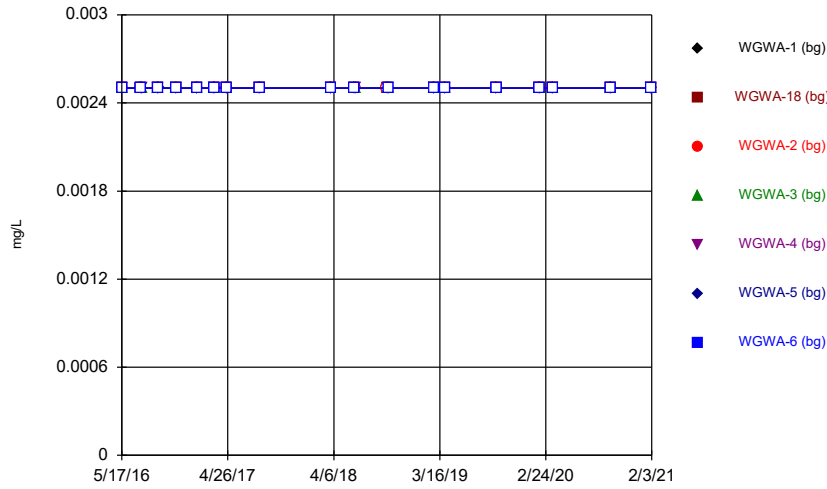
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Time Series



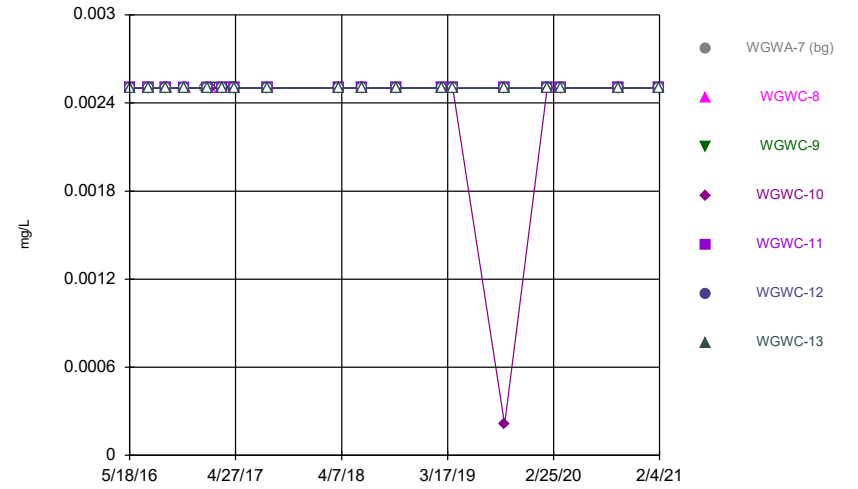
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



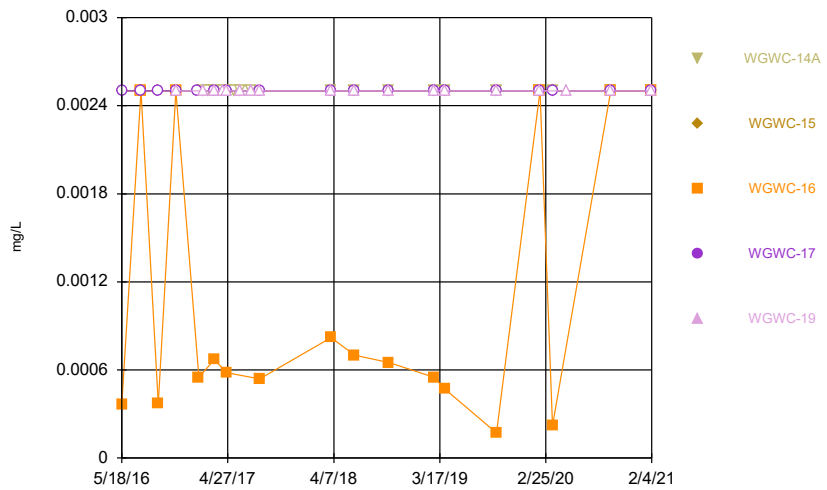
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



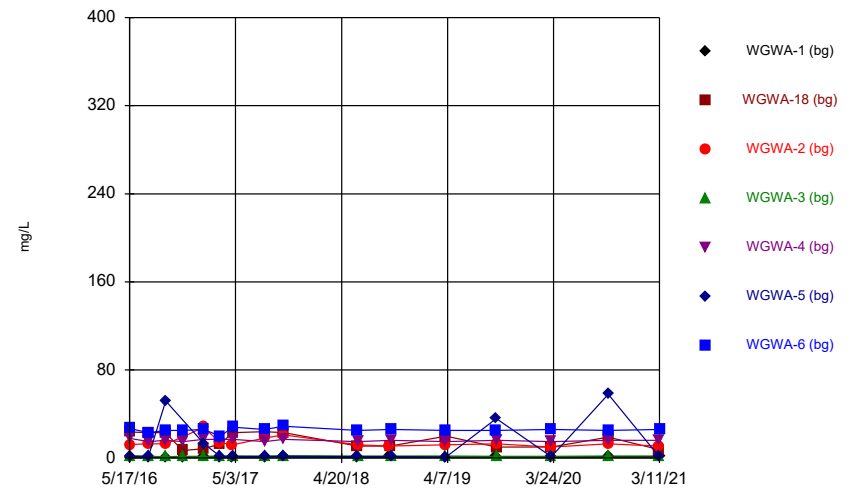
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



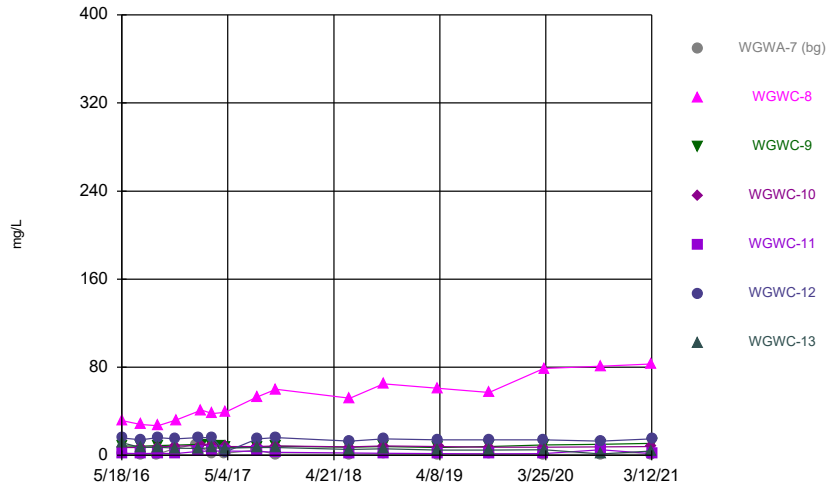
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



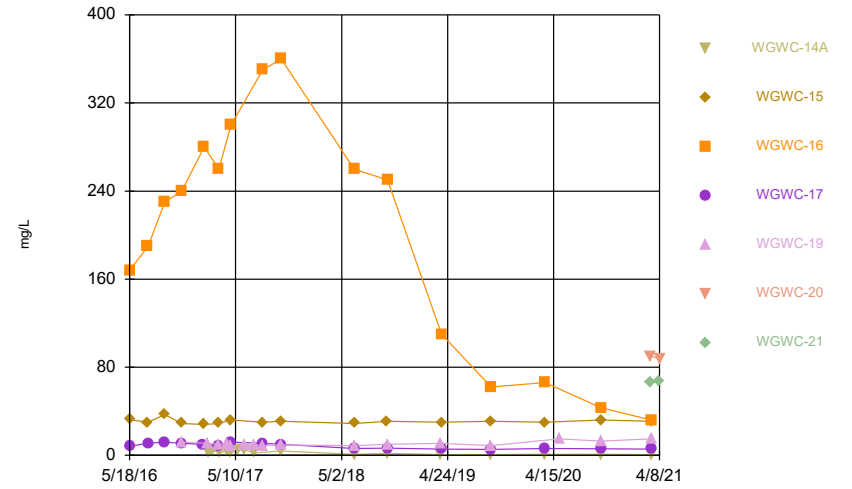
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



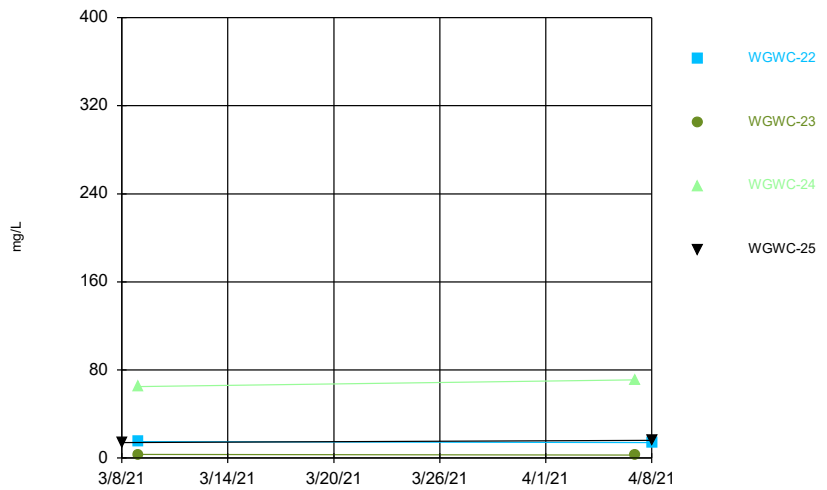
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



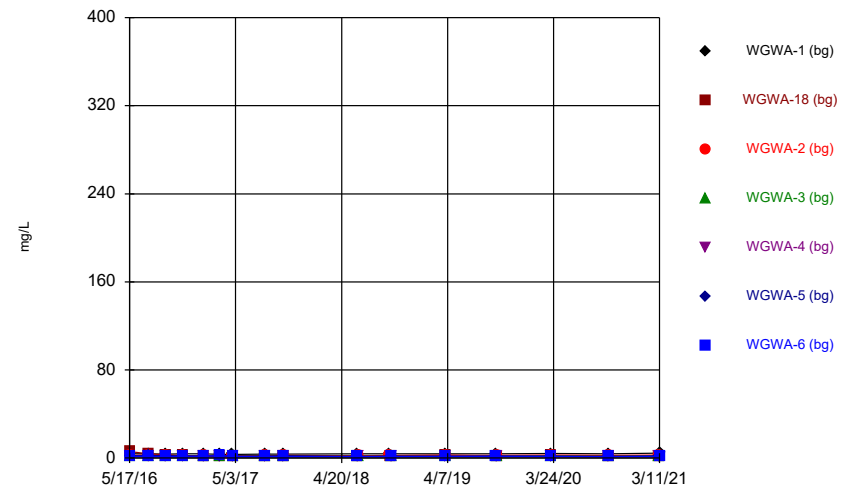
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



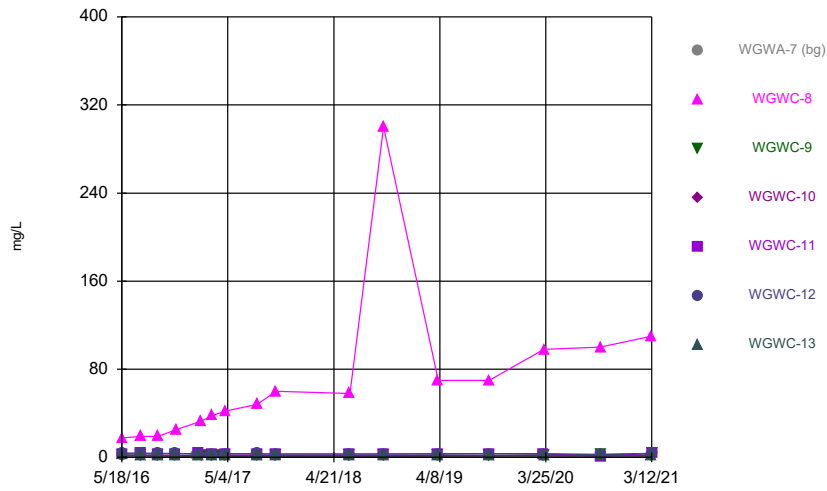
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Time Series



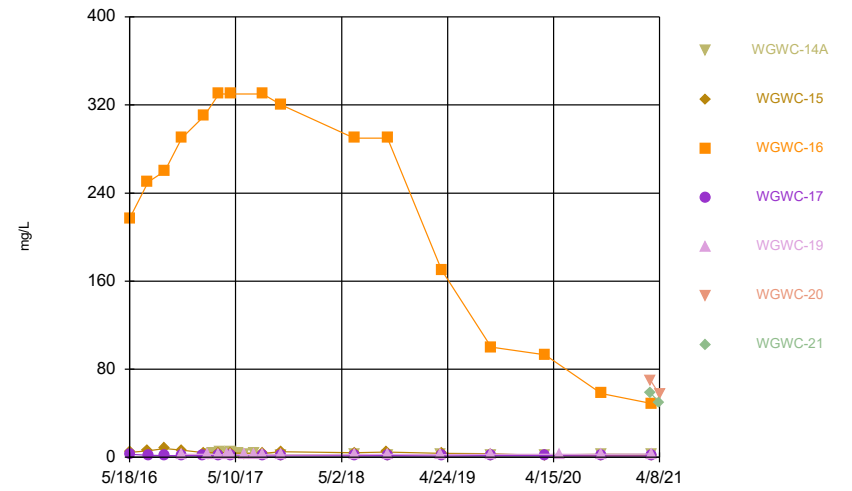
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



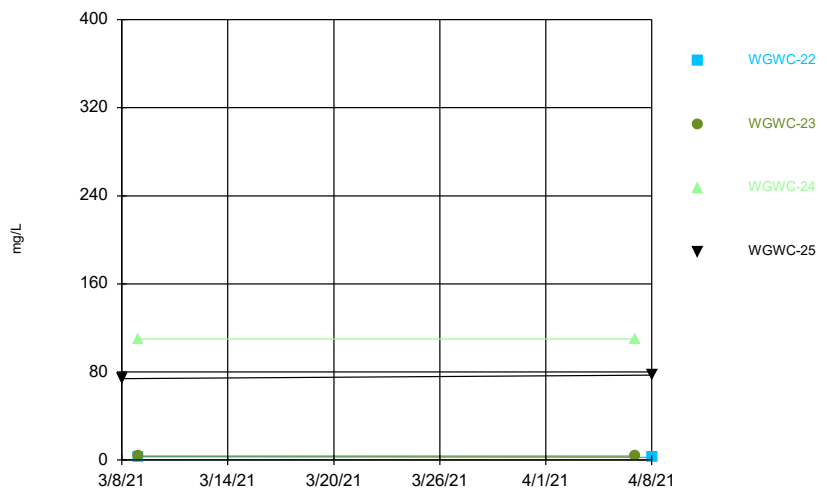
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Time Series



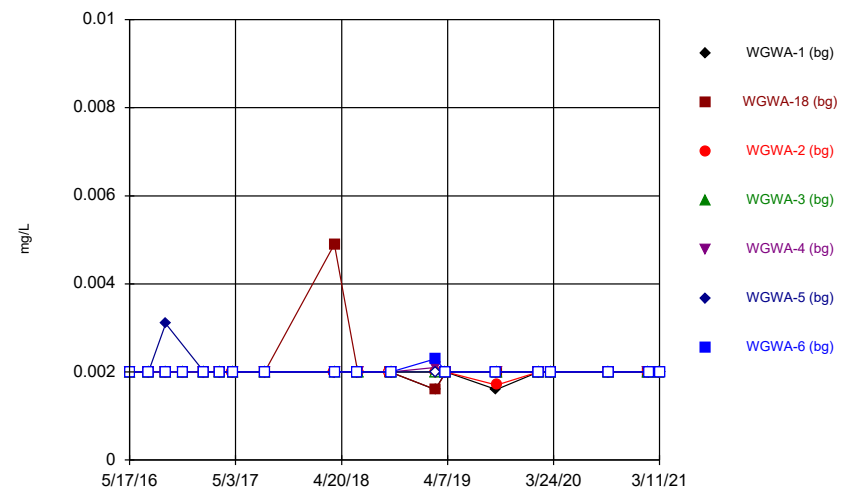
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Time Series



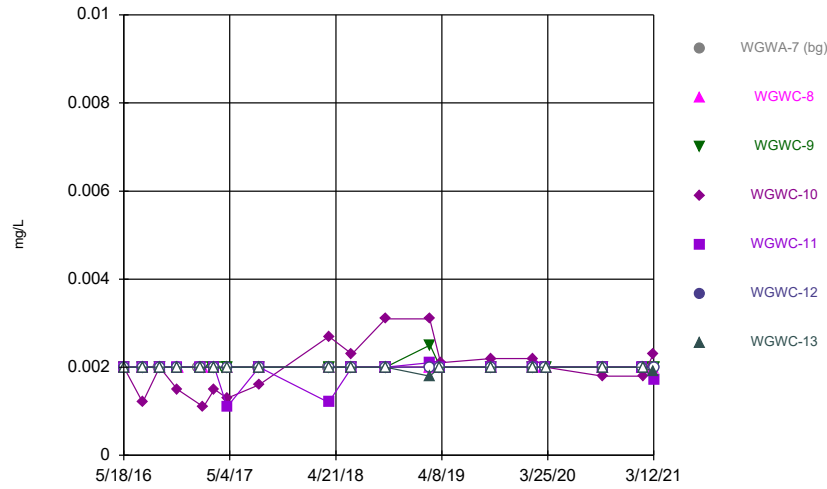
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Time Series



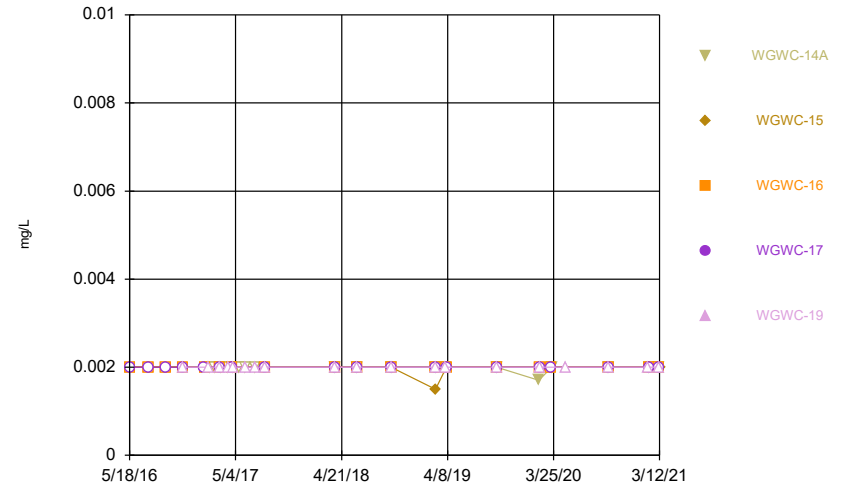
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Time Series



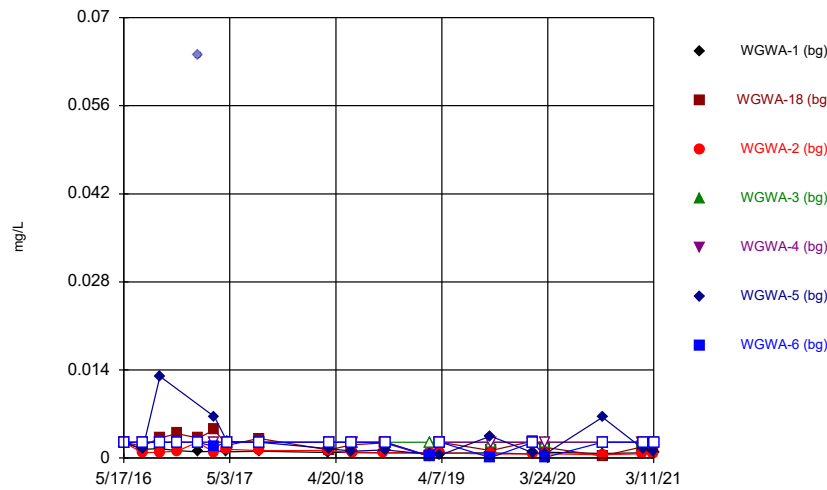
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Time Series



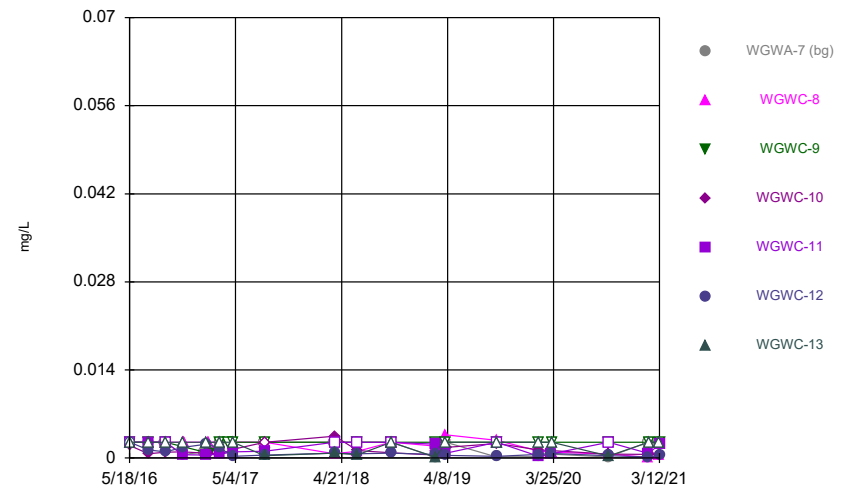
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Time Series



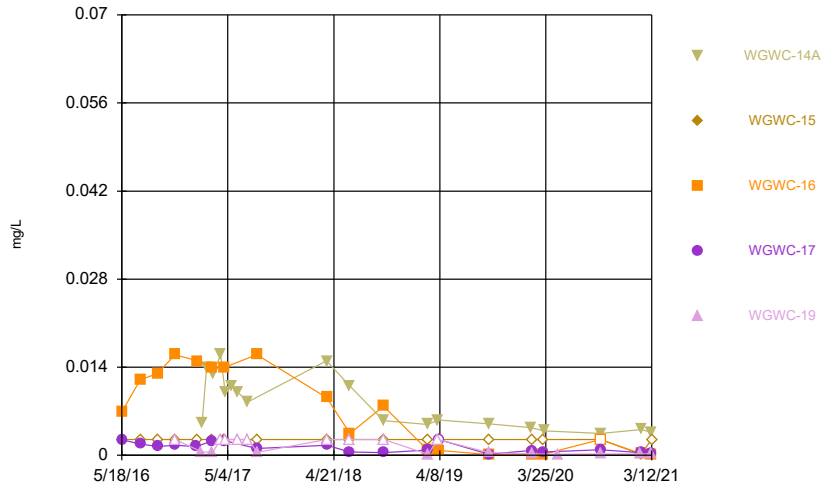
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



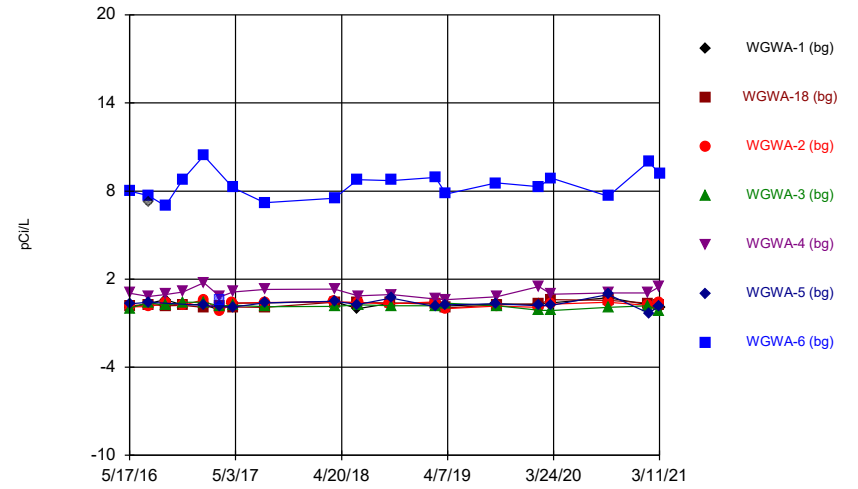
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Time Series



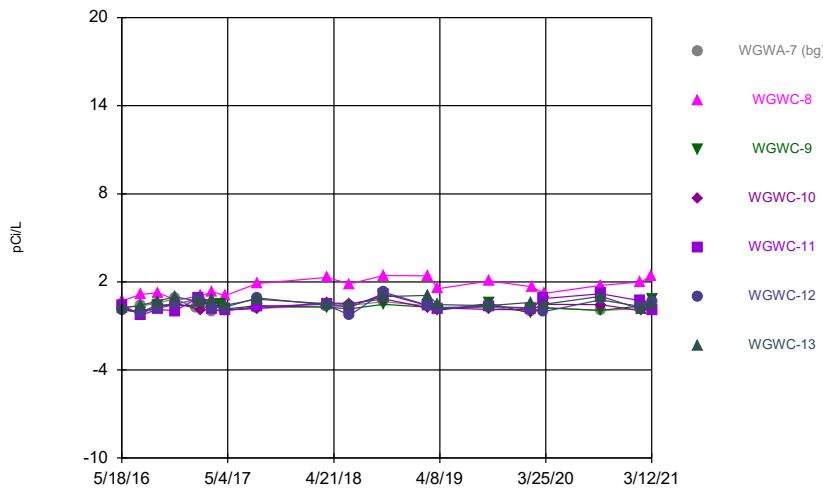
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Time Series



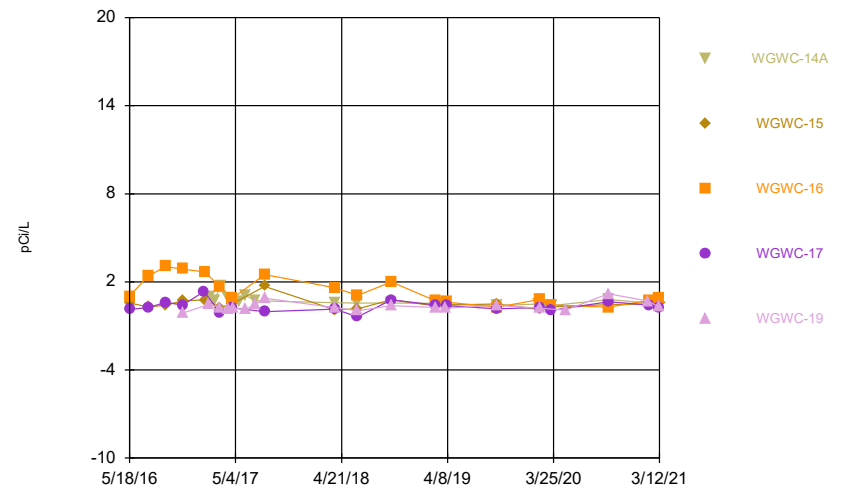
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Time Series



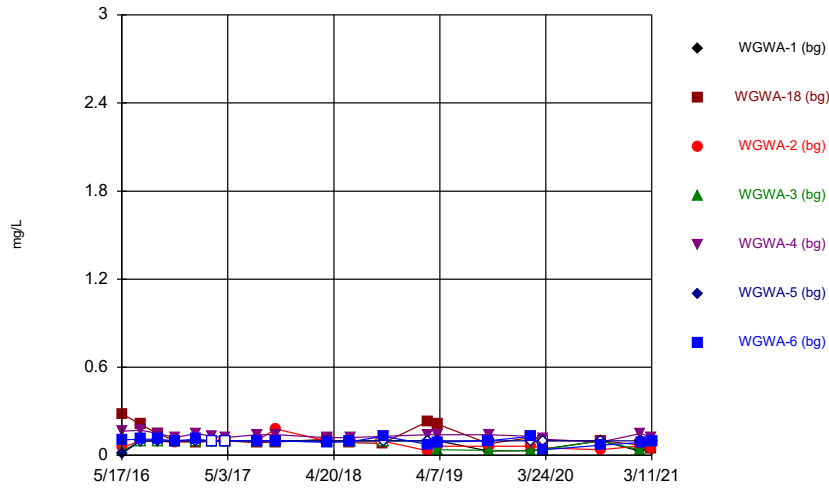
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



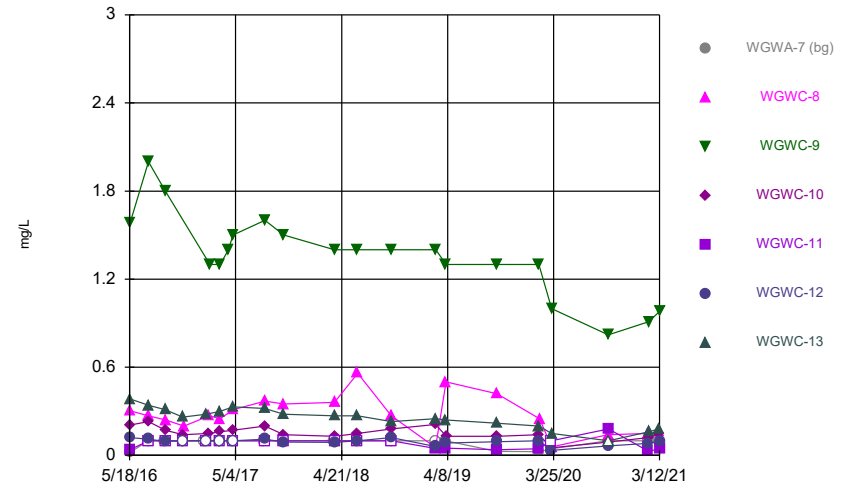
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



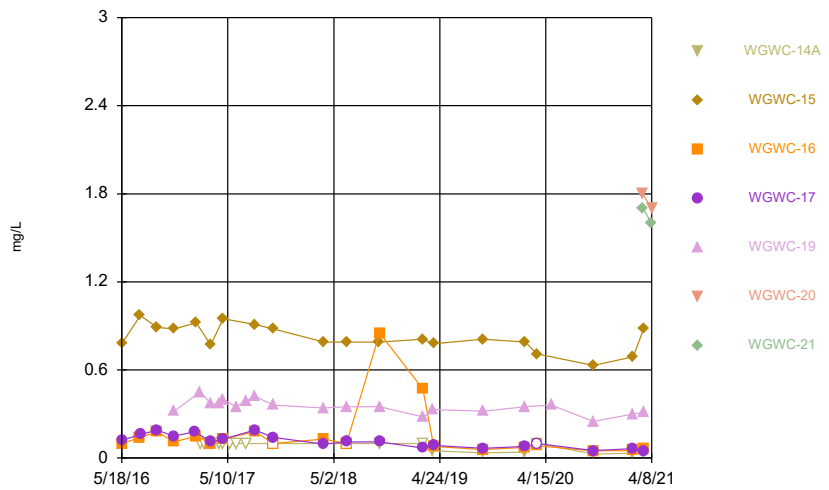
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



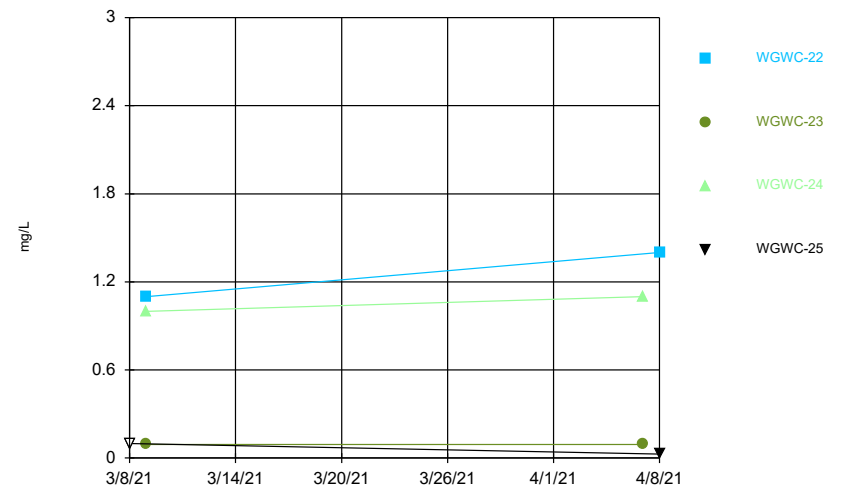
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Time Series



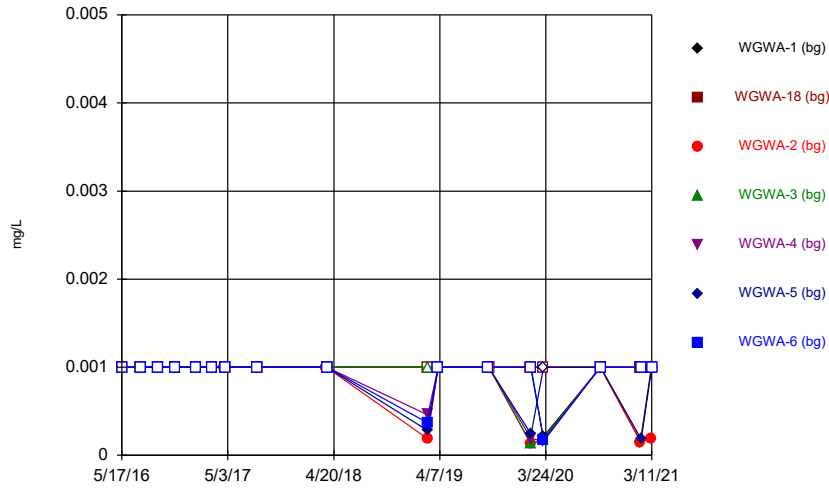
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Time Series



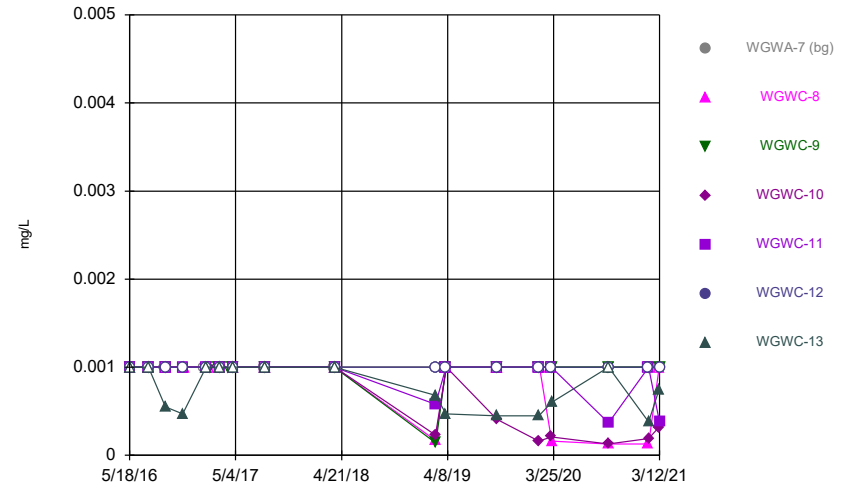
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Time Series



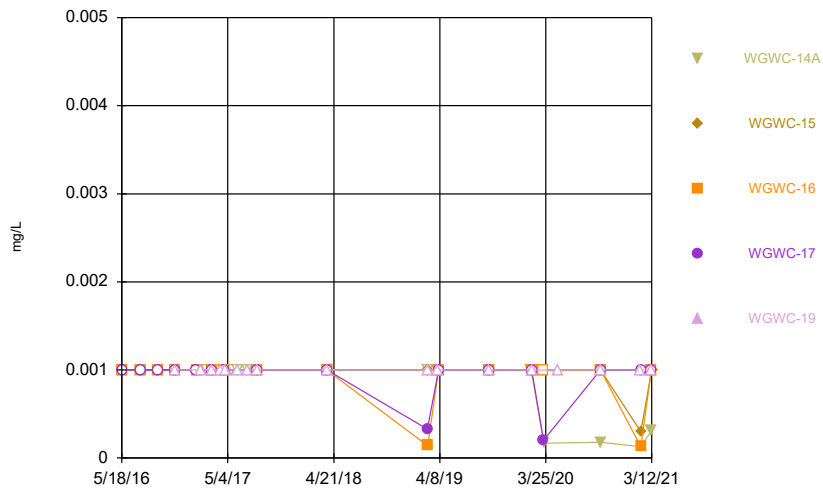
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Time Series



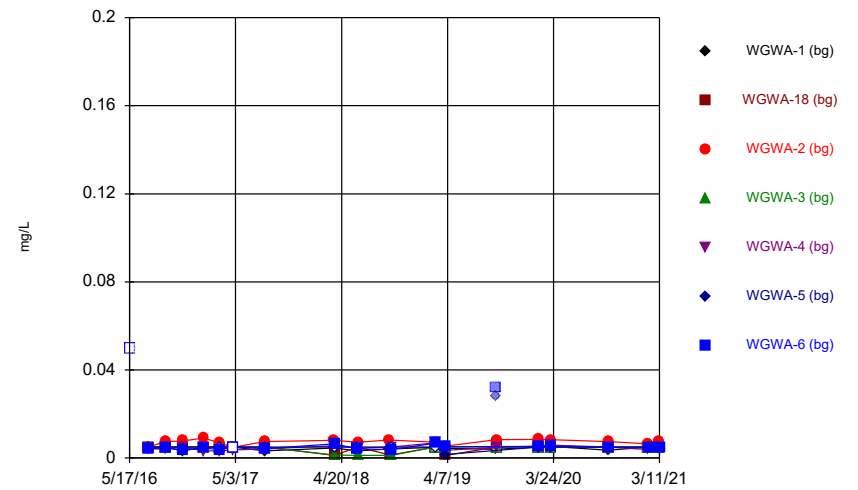
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



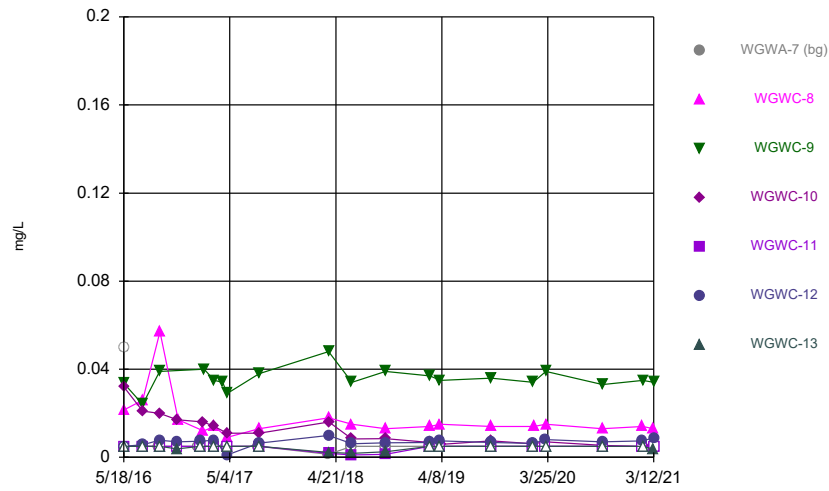
Constituent: Lead Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



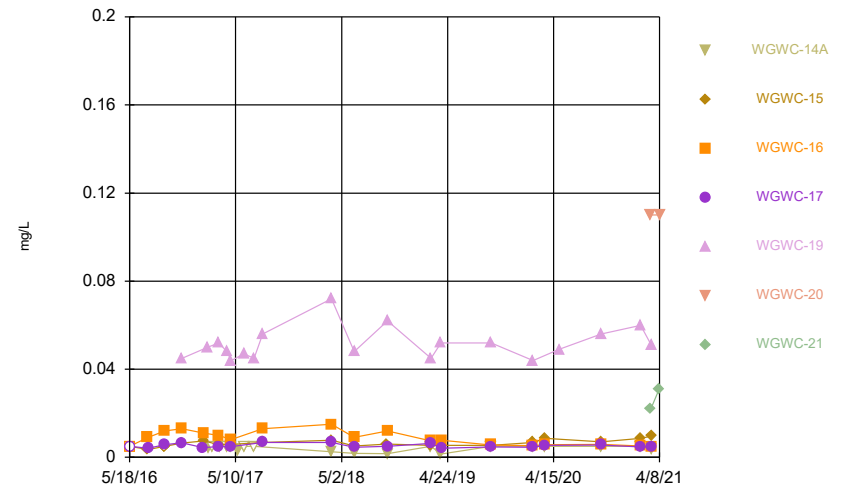
Constituent: Lithium Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



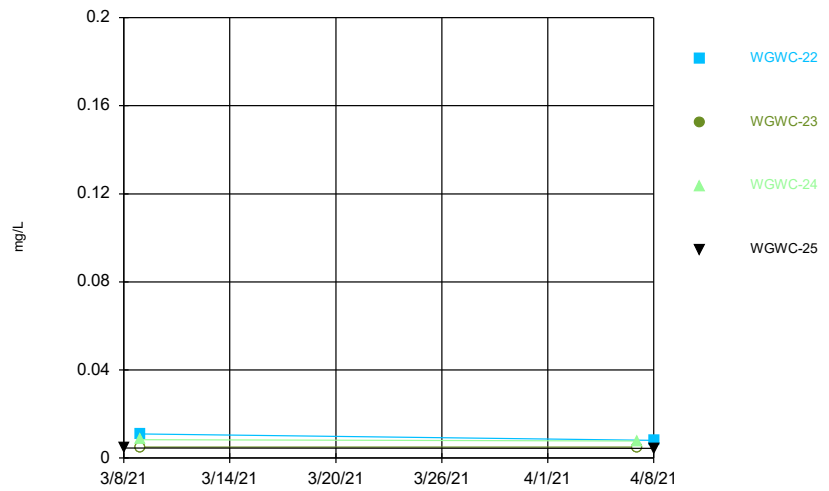
Constituent: Lithium Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



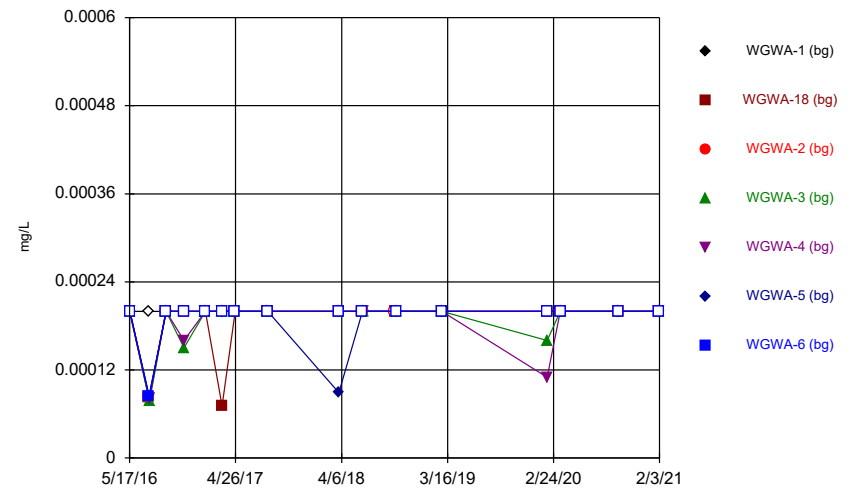
Constituent: Lithium Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



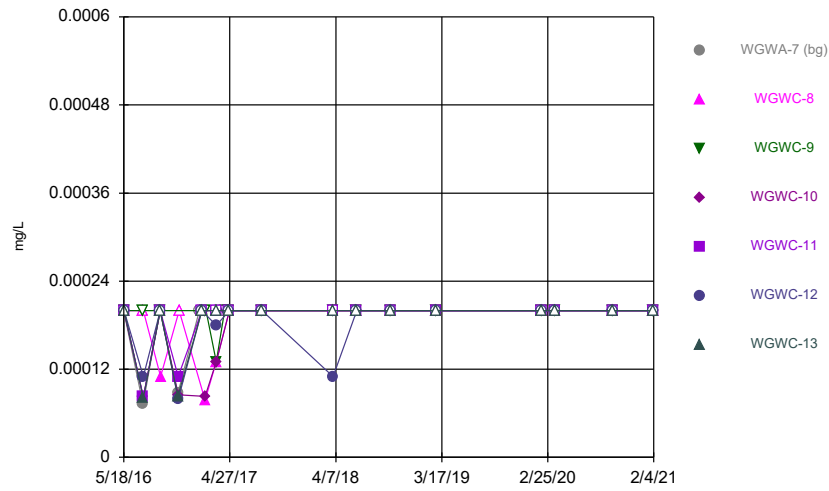
Constituent: Lithium Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



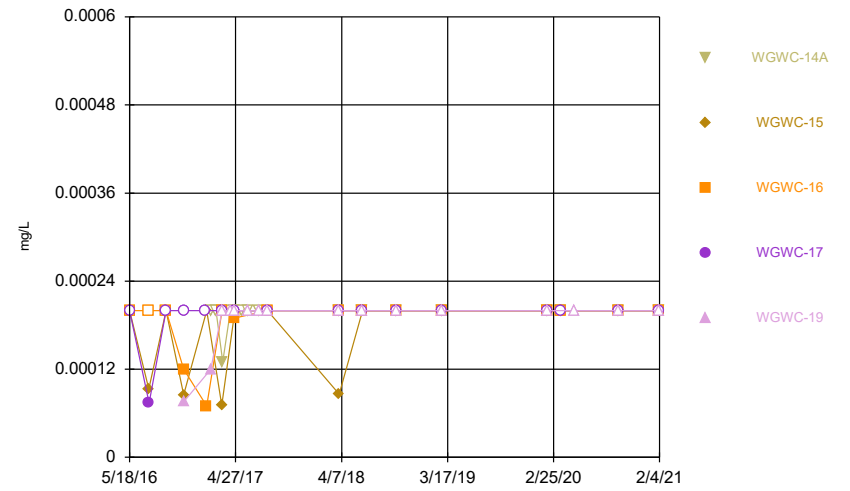
Constituent: Mercury Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



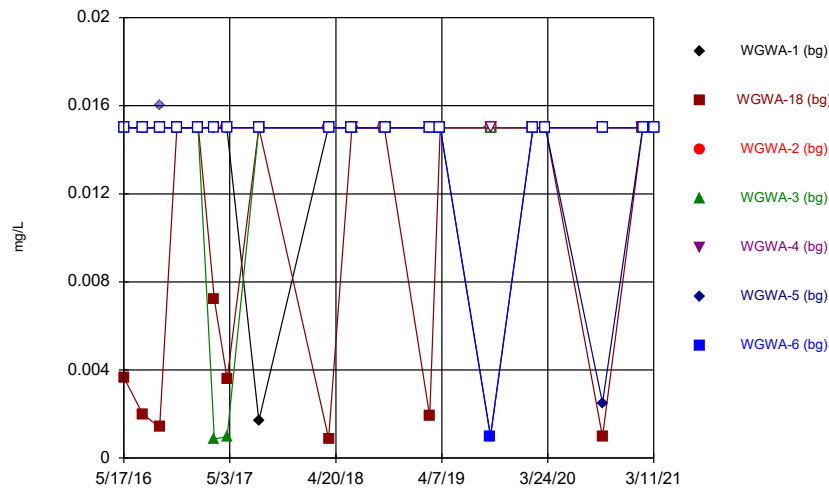
Constituent: Mercury Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



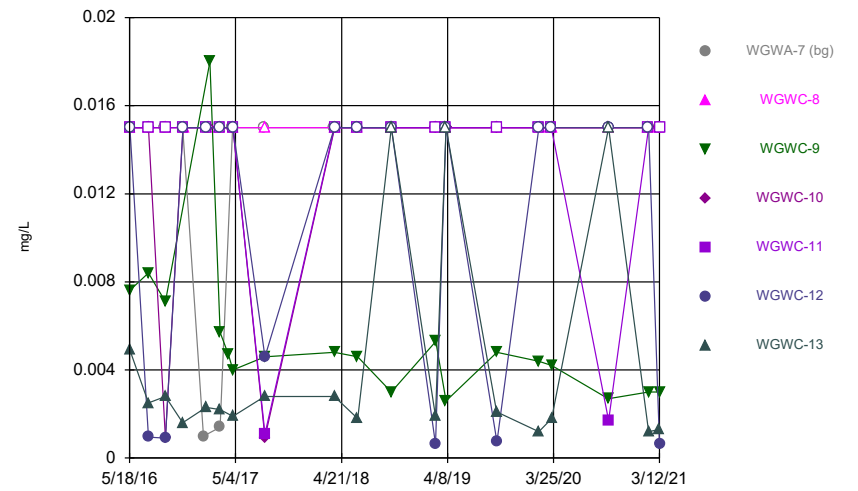
Constituent: Mercury Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



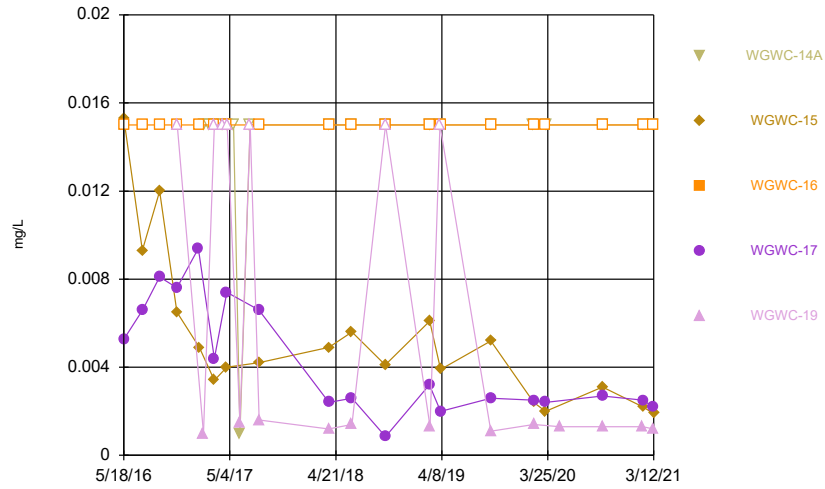
Constituent: Molybdenum Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



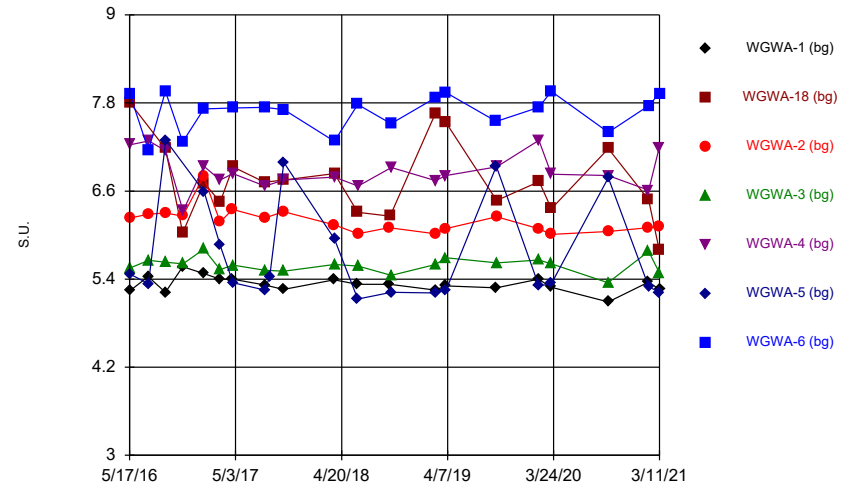
Constituent: Molybdenum Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



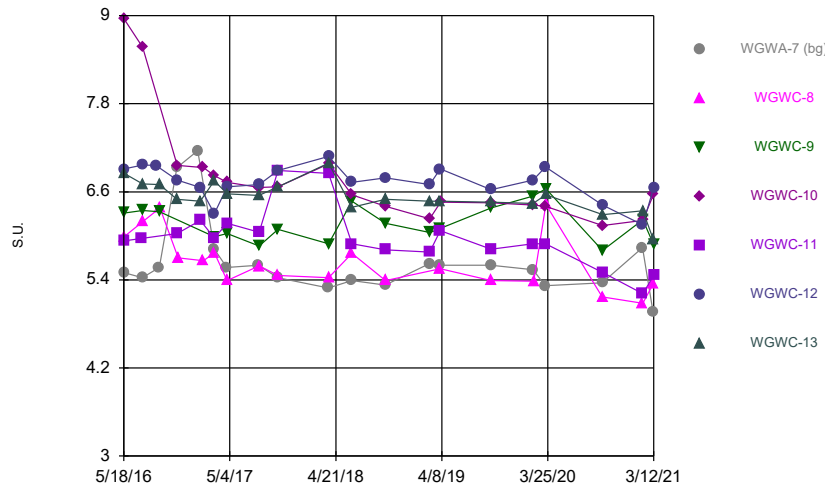
Constituent: Molybdenum Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



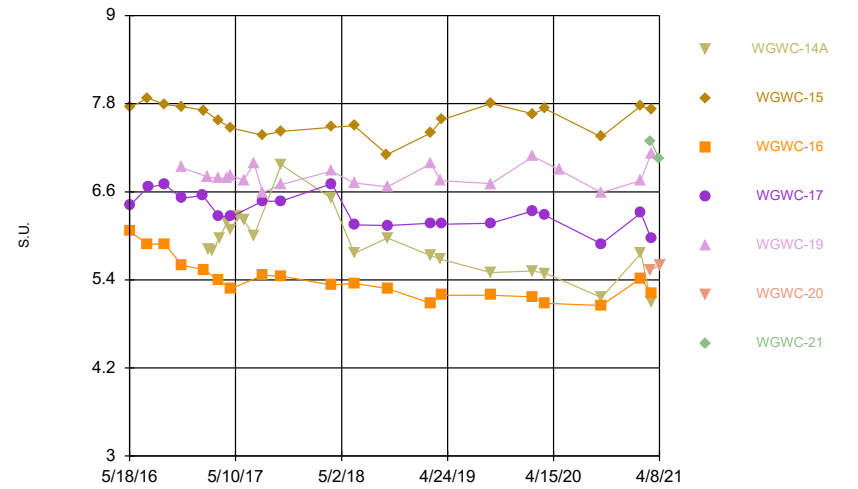
Constituent: pH, Field Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



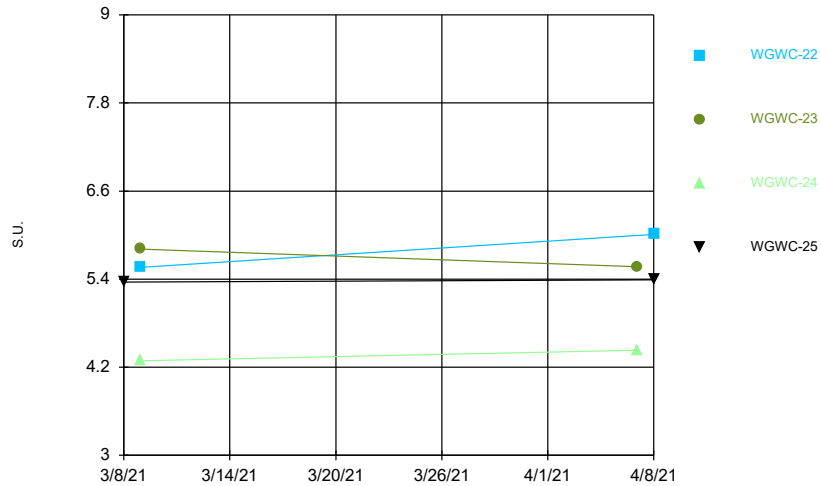
Constituent: pH, Field Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: pH, Field Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

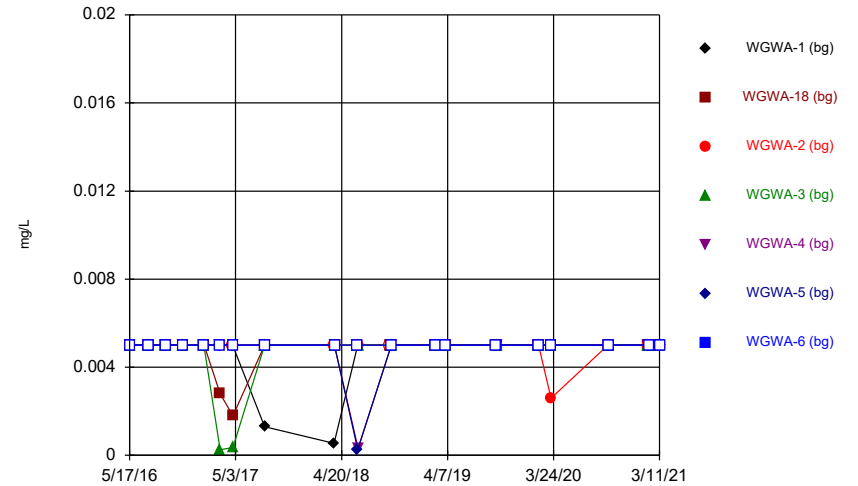
Time Series



Constituent: pH, Field Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

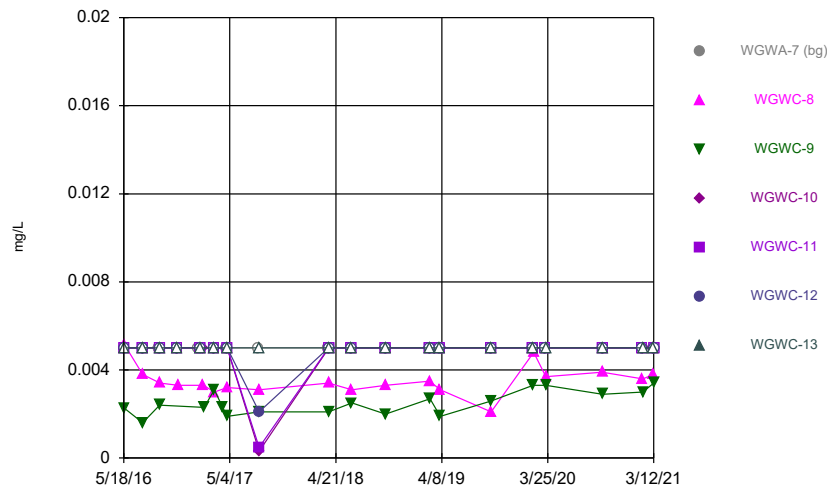
Time Series



Constituent: Selenium Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

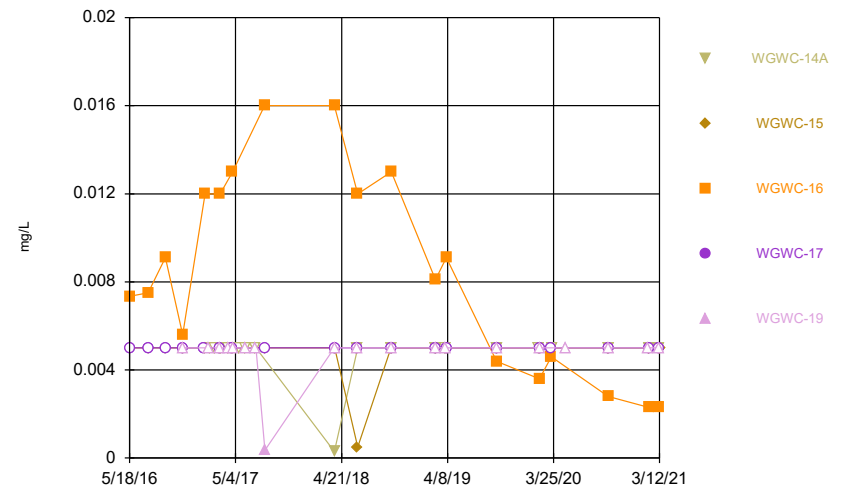
Time Series



Constituent: Selenium Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

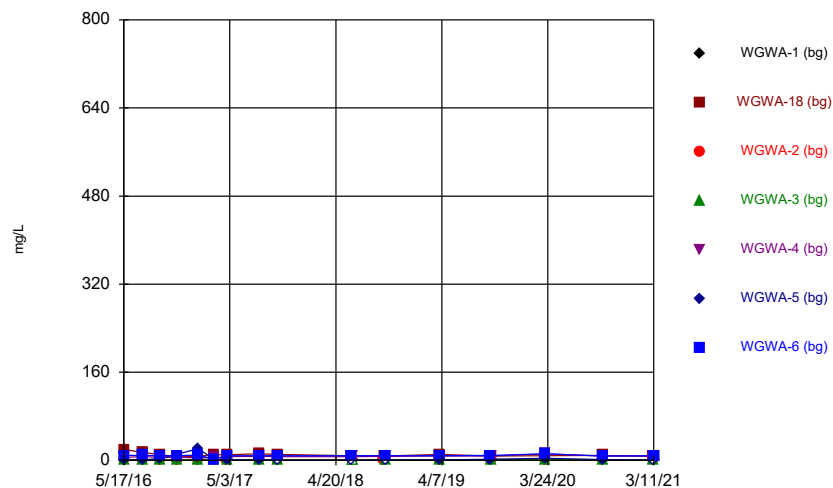
Hollow symbols indicate censored values.

Time Series



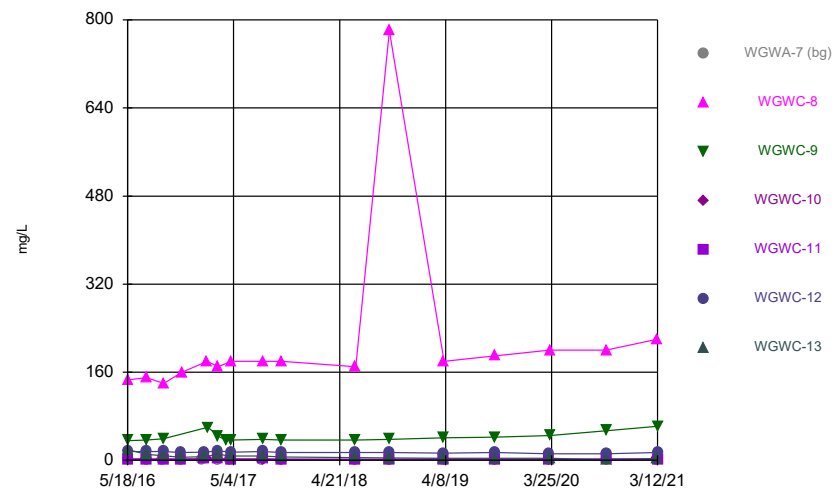
Constituent: Selenium Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



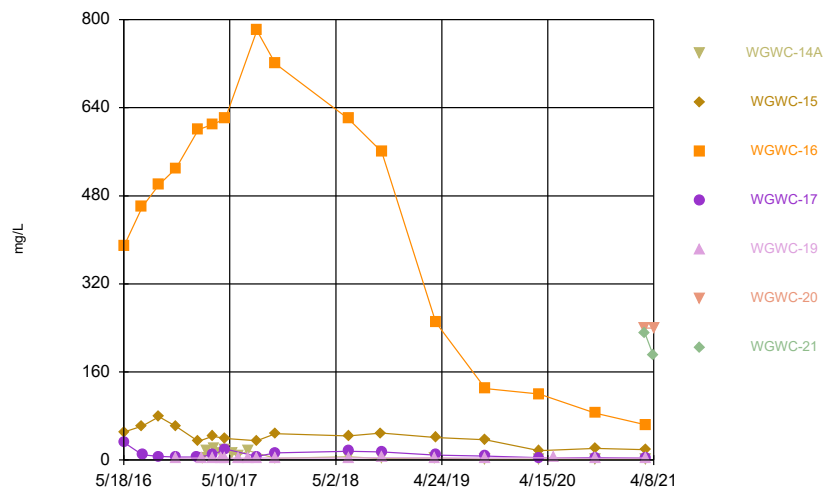
Constituent: Sulfate as SO4 Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



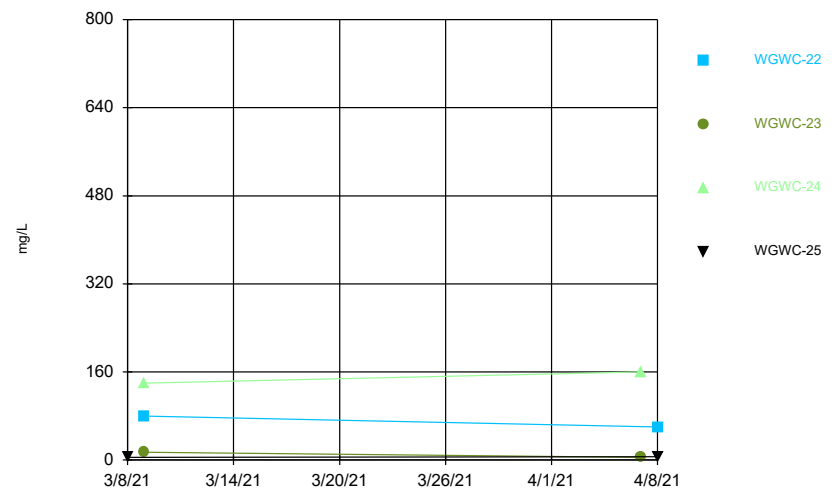
Constituent: Sulfate as SO4 Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



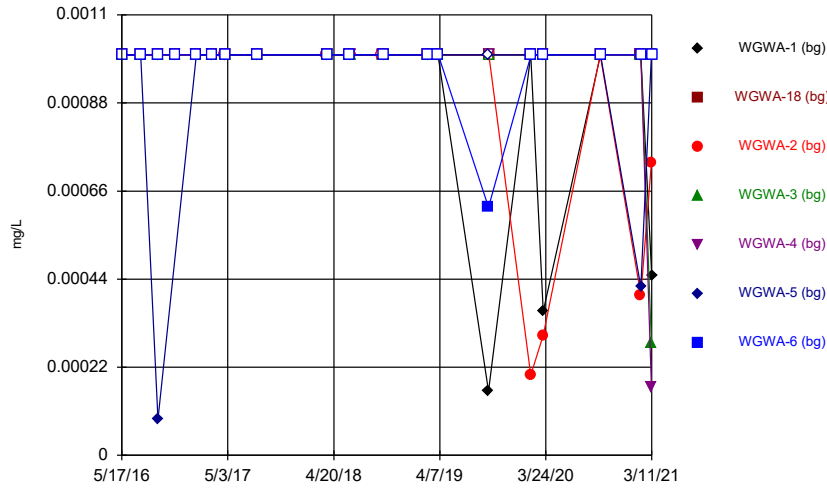
Constituent: Sulfate as SO4 Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



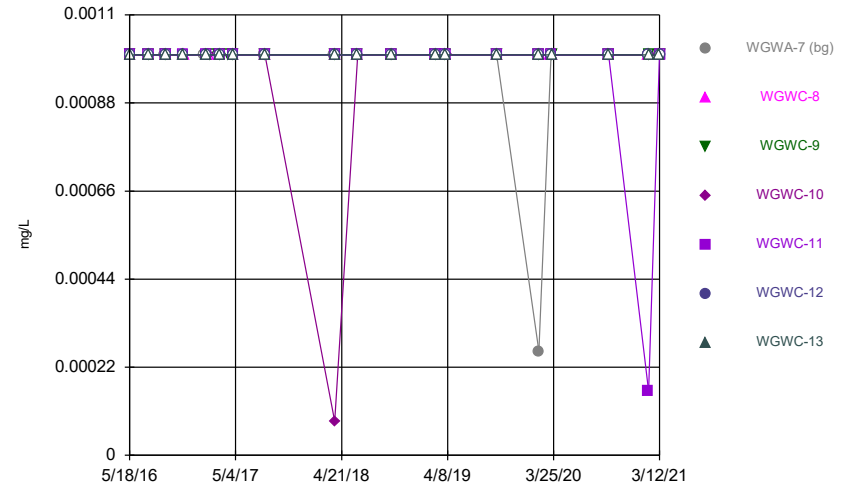
Constituent: Sulfate as SO4 Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



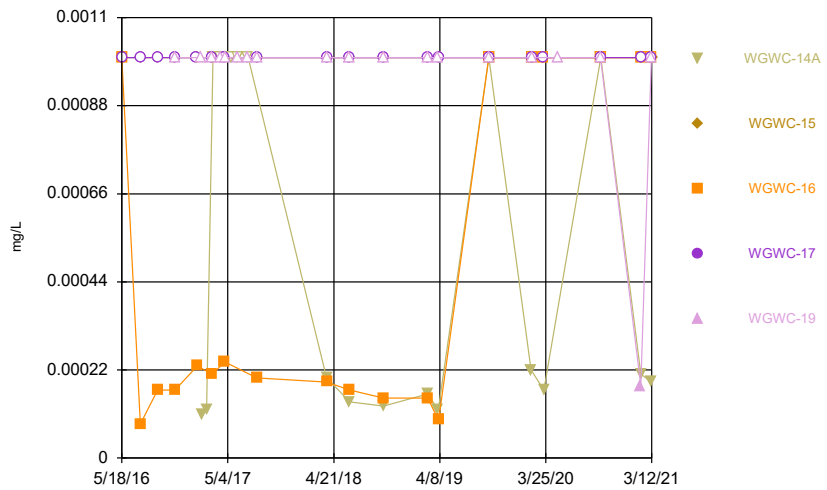
Constituent: Thallium Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



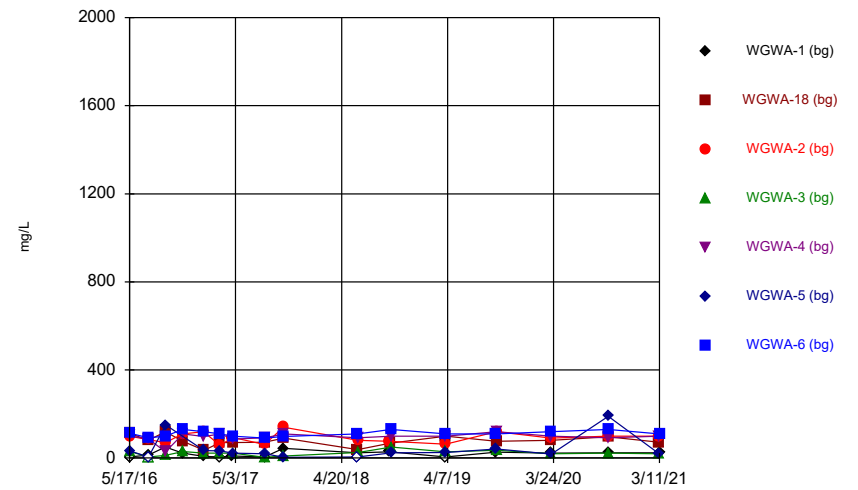
Constituent: Thallium Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



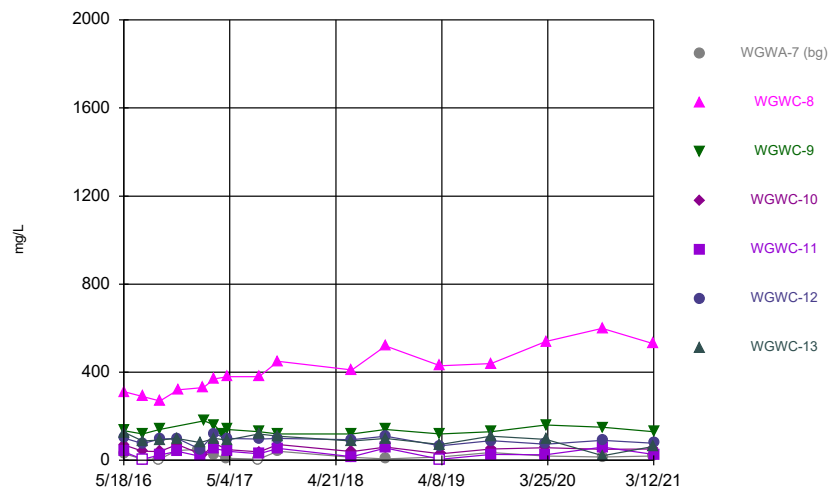
Constituent: Thallium Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



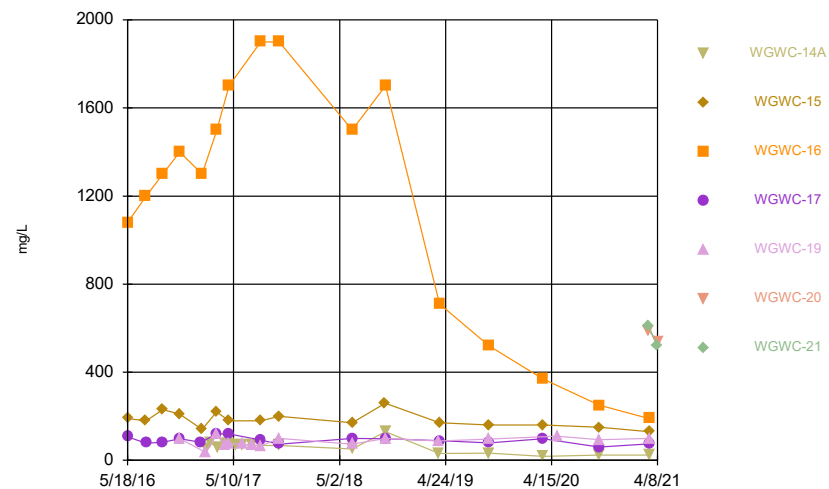
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



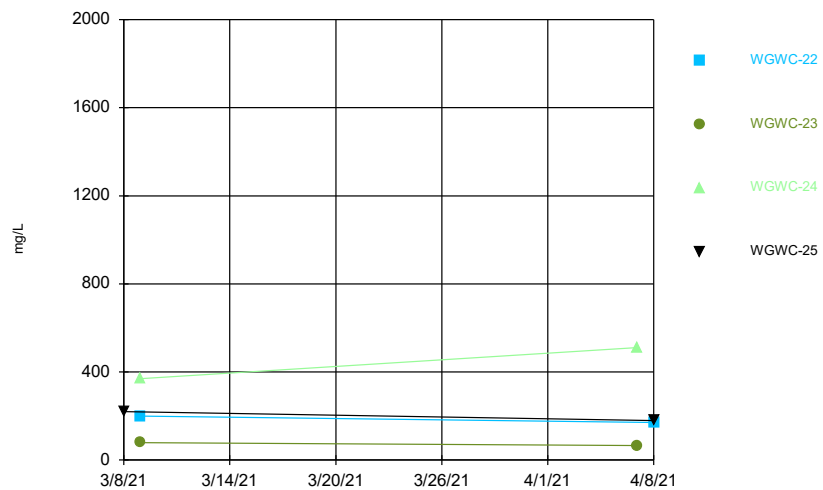
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <0.002 | <0.002 | <0.002 | | | | |
| 5/18/2016 | | | | <0.002 | <0.002 | <0.002 | <0.002 |
| 7/19/2016 | <0.002 | <0.002 | <0.002 | | | <0.002 | <0.002 |
| 7/20/2016 | | | | <0.002 | <0.002 | | |
| 9/13/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | | <0.002 |
| 9/14/2016 | | | | | | <0.002 | |
| 11/9/2016 | <0.002 | <0.002 | <0.002 | | | | <0.002 |
| 11/10/2016 | | | | <0.002 | <0.002 | | |
| 1/17/2017 | <0.002 | | <0.002 | | | | |
| 1/18/2017 | | | | <0.002 | <0.002 | | <0.002 |
| 1/19/2017 | | <0.002 | | | | <0.002 | |
| 3/13/2017 | <0.002 | | <0.002 | | | | |
| 3/14/2017 | | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 4/24/2017 | <0.002 | | <0.002 | | | | |
| 4/25/2017 | | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 8/8/2017 | 0.0022 (J) | <0.002 | <0.002 | <0.002 | | | <0.002 |
| 8/9/2017 | | | | | <0.002 | <0.002 | |
| 3/27/2018 | <0.002 | | <0.002 | | | | |
| 3/28/2018 | | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 2/25/2019 | <0.002 | | <0.002 | | | | |
| 2/26/2019 | | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 2/3/2020 | <0.002 | | <0.002 | | | | |
| 2/4/2020 | | | | <0.002 | <0.002 | <0.002 | <0.002 |
| 2/5/2020 | | <0.002 | | | | | |
| 3/16/2020 | <0.002 | | <0.002 | | | | |
| 3/17/2020 | | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 2/2/2021 | 0.00062 (J) | <0.002 | <0.002 | <0.002 | <0.002 | | |
| 2/3/2021 | | | | | | <0.002 | <0.002 |
| 3/10/2021 | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | |
| 3/11/2021 | <0.002 | | | | | | <0.002 |

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|--------|-------------|---------|---------|------------|---------|
| 5/18/2016 | <0.002 | | | <0.002 | | | |
| 5/19/2016 | | <0.002 | <0.002 | | <0.002 | <0.002 | <0.002 |
| 7/19/2016 | <0.002 | | | | | | |
| 7/20/2016 | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| 9/13/2016 | <0.002 | | | | | | |
| 9/14/2016 | | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| 9/15/2016 | | <0.002 | | | | | |
| 11/10/2016 | <0.002 | | | | | | <0.002 |
| 11/11/2016 | | | | <0.002 | <0.002 | <0.002 | |
| 11/14/2016 | | <0.002 | | | | | |
| 1/18/2017 | <0.002 | | | | | | |
| 1/27/2017 | | | | | <0.002 | <0.002 | <0.002 |
| 2/6/2017 | | <0.002 | | <0.002 | | | |
| 2/9/2017 | | | <0.002 | | | | |
| 3/14/2017 | <0.002 | | | | | | |
| 3/15/2017 | | <0.002 | 0.0011 (J) | <0.002 | <0.002 | <0.002 | <0.002 |
| 4/11/2017 | | | <0.002 | | | | |
| 4/25/2017 | <0.002 | | | | | | |
| 4/26/2017 | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| 8/8/2017 | <0.002 | | | | | | |
| 8/9/2017 | | | | | | | <0.002 |
| 8/10/2017 | | <0.002 | <0.002 | <0.002 | <0.002 | 0.0023 (J) | |
| 3/28/2018 | <0.002 | | | | | | |
| 3/29/2018 | | <0.002 | <0.002 | | <0.002 | <0.002 | <0.002 |
| 3/30/2018 | | | | <0.002 | | | |
| 2/26/2019 | <0.002 | | | | | | |
| 2/27/2019 | | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 2/28/2019 | | | <0.002 | | | | |
| 2/5/2020 | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| 2/7/2020 | | <0.002 | | | | | |
| 3/17/2020 | <0.002 | | | | | | |
| 3/18/2020 | | | | <0.002 | <0.002 | <0.002 | |
| 3/19/2020 | | <0.002 | 0.00041 (J) | | | | <0.002 |
| 2/2/2021 | <0.002 | | | | | | |
| 2/3/2021 | | <0.002 | | | <0.002 | <0.002 | |
| 2/4/2021 | | | 0.00041 (J) | <0.002 | | | <0.002 |
| 3/10/2021 | <0.002 | | | | | | |
| 3/11/2021 | | <0.002 | | <0.002 | | | <0.002 |
| 3/12/2021 | | | <0.002 | | <0.002 | <0.002 | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 |
|------------|----------|---------|---------|---------|---------|
| 5/18/2016 | | <0.002 | <0.002 | <0.002 | |
| 7/19/2016 | | <0.002 | <0.002 | | |
| 7/20/2016 | | | | <0.002 | |
| 9/14/2016 | | <0.002 | <0.002 | <0.002 | |
| 11/10/2016 | | <0.002 | <0.002 | <0.002 | |
| 11/11/2016 | | | | | <0.002 |
| 1/20/2017 | | | | <0.002 | |
| 1/24/2017 | | <0.002 | <0.002 | | |
| 2/6/2017 | | | | | <0.002 |
| 2/8/2017 | <0.002 | | | | |
| 2/23/2017 | <0.002 | | | | |
| 3/14/2017 | | <0.002 | | <0.002 | |
| 3/15/2017 | | | <0.002 | | <0.002 |
| 3/17/2017 | <0.002 | | | | |
| 4/11/2017 | <0.002 | | | | <0.002 |
| 4/25/2017 | | <0.002 | <0.002 | <0.002 | |
| 4/26/2017 | <0.002 | | | | <0.002 |
| 5/17/2017 | <0.002 | | | | |
| 6/7/2017 | <0.002 | | | | <0.002 |
| 7/11/2017 | <0.002 | | | | <0.002 |
| 8/9/2017 | | <0.002 | <0.002 | <0.002 | |
| 8/10/2017 | | | | | <0.002 |
| 3/29/2018 | <0.002 | | <0.002 | | <0.002 |
| 3/30/2018 | | <0.002 | | <0.002 | |
| 2/26/2019 | | | | <0.002 | |
| 2/27/2019 | <0.002 | <0.002 | <0.002 | | |
| 2/28/2019 | | | | | <0.002 |
| 2/5/2020 | <0.002 | | | | |
| 2/7/2020 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 3/18/2020 | | <0.002 | <0.002 | <0.002 | |
| 3/19/2020 | <0.002 | | | | |
| 5/4/2020 | | | | | <0.002 |
| 2/3/2021 | | | | | <0.002 |
| 2/4/2021 | <0.002 | <0.002 | <0.002 | <0.002 | |
| 3/11/2021 | <0.002 | | <0.002 | <0.002 | <0.002 |
| 3/12/2021 | | <0.002 | | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <0.001 | <0.001 | <0.001 | | | | |
| 5/18/2016 | | | | <0.001 | <0.001 | <0.001 | <0.001 |
| 7/19/2016 | <0.001 | 0.00061 (J) | <0.001 | | | <0.001 | <0.001 |
| 7/20/2016 | | | | <0.001 | <0.001 | | |
| 9/13/2016 | <0.001 | 0.00074 (J) | <0.001 | <0.001 | <0.001 | | <0.001 |
| 9/14/2016 | | | | | | 0.00069 (J) | |
| 11/9/2016 | <0.001 | <0.001 | <0.001 | | | | <0.001 |
| 11/10/2016 | | | | <0.001 | 0.00078 (J) | | |
| 1/17/2017 | <0.001 | | 0.00099 (J) | | | | |
| 1/18/2017 | | | | 0.00086 (J) | 0.0012 (J) | | 0.0008 (J) |
| 1/19/2017 | | 0.00079 (J) | | | | <0.001 | |
| 3/13/2017 | <0.001 | | <0.001 | | | | |
| 3/14/2017 | | 0.0014 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 4/24/2017 | <0.001 | | <0.001 | | | | |
| 4/25/2017 | | 0.00062 (J) | | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/8/2017 | <0.001 | <0.001 | <0.001 | <0.001 | | | <0.001 |
| 8/9/2017 | | | | | <0.001 | <0.001 | |
| 3/27/2018 | <0.001 | | <0.001 | | | | |
| 3/28/2018 | | 0.00046 (J) | | <0.001 | <0.001 | <0.001 | <0.001 |
| 6/13/2018 | 0.001 (J) | 0.00057 (J) | | | | <0.001 | <0.001 |
| 6/14/2018 | | | 0.0012 (J) | 0.00087 (J) | 0.0005 (J) | | |
| 9/24/2018 | | | <0.001 | | | | |
| 9/27/2018 | <0.001 | | | | | | |
| 9/28/2018 | | <0.001 | | | | | |
| 10/2/2018 | | | | | | | <0.001 |
| 10/3/2018 | | | | 0.00069 (J) | <0.001 | 0.00085 (J) | |
| 2/25/2019 | <0.001 | | <0.001 | | | | |
| 2/26/2019 | | 0.00054 (J) | | <0.001 | 0.00033 (J) | <0.001 | <0.001 |
| 4/1/2019 | <0.001 | | <0.001 | | | | |
| 4/2/2019 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/16/2019 | <0.001 | | | | | <0.001 | 0.00036 (J) |
| 9/17/2019 | | 0.0004 (J) | 0.00033 (J) | | 0.00035 (J) | | |
| 9/18/2019 | | | | <0.001 | | | |
| 2/3/2020 | <0.001 | | <0.001 | | | | |
| 2/4/2020 | | | | <0.001 | 0.00033 (J) | <0.001 | <0.001 |
| 2/5/2020 | | 0.00058 (J) | | | | | |
| 3/16/2020 | 0.00038 (J) | | 0.00043 (J) | | | | |
| 3/17/2020 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/21/2020 | | | <0.001 | <0.001 | <0.001 | | |
| 9/22/2020 | <0.001 | <0.001 | | | | <0.001 | <0.001 |
| 2/2/2021 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 2/3/2021 | | | | | | <0.001 | <0.001 |
| 3/10/2021 | | <0.001 | 0.00063 (J) | <0.001 | 0.00036 (J) | <0.001 | |
| 3/11/2021 | <0.001 | | | | | | <0.001 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/18/2016 | <0.001 | | | <0.001 | | | |
| 5/19/2016 | | <0.001 | <0.001 | | <0.001 | <0.001 | <0.001 |
| 7/19/2016 | <0.001 | | | | | | |
| 7/20/2016 | | 0.00055 (J) | 0.00078 (J) | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/13/2016 | <0.001 | | | | | | |
| 9/14/2016 | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/15/2016 | | <0.001 | | | | | |
| 11/10/2016 | <0.001 | | | | | | <0.001 |
| 11/11/2016 | | | | <0.001 | <0.001 | <0.001 | |
| 11/14/2016 | | <0.001 | | | | | |
| 1/18/2017 | 0.001 (J) | | | | | | |
| 1/27/2017 | | | | | 0.00047 (J) | <0.001 | 0.00066 (J) |
| 2/6/2017 | | <0.001 | | <0.001 | | | |
| 2/9/2017 | | | 0.0017 | | | | |
| 3/14/2017 | <0.001 | | | | | | |
| 3/15/2017 | | <0.001 | 0.00047 (J) | <0.001 | <0.001 | <0.001 | <0.001 |
| 4/11/2017 | | | <0.001 | | | | |
| 4/25/2017 | <0.001 | | | | | | |
| 4/26/2017 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/8/2017 | <0.001 | | | | | | |
| 8/9/2017 | | | | | | | <0.001 |
| 8/10/2017 | | <0.001 | <0.001 | <0.001 | <0.001 | 0.00048 (J) | |
| 3/28/2018 | <0.001 | | | | | | |
| 3/29/2018 | | <0.001 | <0.001 | | <0.001 | <0.001 | 0.00067 (J) |
| 3/30/2018 | | | | <0.001 | | | |
| 6/14/2018 | 0.0005 (J) | <0.001 | <0.001 | 0.0005 (J) | <0.001 | 0.00052 (J) | 0.00093 (J) |
| 10/3/2018 | <0.001 | | | | | | |
| 10/4/2018 | | 0.0015 | <0.001 | 0.00089 (J) | 0.00054 (J) | <0.001 | 0.0015 |
| 2/26/2019 | <0.001 | | | | | | |
| 2/27/2019 | | 0.00047 (J) | | <0.001 | <0.001 | <0.001 | 0.00036 (J) |
| 2/28/2019 | | | <0.001 | | | | |
| 4/2/2019 | <0.001 | | | | | | |
| 4/3/2019 | | <0.001 | <0.001 | | <0.001 | <0.001 | 0.00053 (J) |
| 4/4/2019 | | | | <0.001 | | | |
| 9/18/2019 | <0.001 | | | | | | 0.00039 (J) |
| 9/19/2019 | | 0.00032 (J) | <0.001 | 0.00038 (J) | <0.001 | <0.001 | |
| 2/5/2020 | <0.001 | | <0.001 | 0.00035 (J) | <0.001 | <0.001 | 0.00048 (J) |
| 2/7/2020 | | 0.0011 | | | | | |
| 3/17/2020 | <0.001 | | | | | | |
| 3/18/2020 | | | | <0.001 | <0.001 | <0.001 | |
| 3/19/2020 | | 0.00071 (J) | <0.001 | | | | 0.00039 (J) |
| 9/22/2020 | <0.001 | 0.0011 | | | | | |
| 9/23/2020 | | | <0.001 | <0.001 | | <0.001 | |
| 9/24/2020 | | | | | 0.00051 (J) | | <0.001 |
| 2/2/2021 | <0.001 | | | | | | |
| 2/3/2021 | | 0.0013 | | | <0.001 | <0.001 | |
| 2/4/2021 | | | <0.001 | <0.001 | | | 0.00038 (J) |
| 3/10/2021 | <0.001 | | | | | | |
| 3/11/2021 | | 0.0009 (J) | | 0.00031 (J) | | | 0.00035 (J) |
| 3/12/2021 | | | <0.001 | | <0.001 | <0.001 | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 |
|------------|-------------|-------------|-------------|-------------|---------|
| 5/18/2016 | | 0.00345 | <0.001 | <0.001 | |
| 7/19/2016 | | 0.0031 | 0.0009 (J) | | |
| 7/20/2016 | | | | 0.00058 (J) | |
| 9/14/2016 | | 0.0024 | 0.0014 | <0.001 | |
| 11/10/2016 | | 0.0023 | 0.0021 | 0.00082 (J) | |
| 11/11/2016 | | | | | <0.001 |
| 1/20/2017 | | | | <0.001 | |
| 1/24/2017 | | 0.0019 | 0.0015 | | |
| 2/6/2017 | | | | | <0.001 |
| 2/8/2017 | <0.001 | | | | |
| 2/23/2017 | <0.001 | | | | |
| 3/14/2017 | | 0.0016 | | <0.001 | |
| 3/15/2017 | | | 0.0014 | | <0.001 |
| 3/17/2017 | 0.0006 (J) | | | | |
| 4/11/2017 | 0.0032 | | | | <0.001 |
| 4/25/2017 | | 0.0019 | 0.0014 | 0.00095 (J) | |
| 4/26/2017 | 0.0019 | | | | <0.001 |
| 5/17/2017 | 0.0014 | | | | |
| 6/7/2017 | 0.0021 | | | | <0.001 |
| 7/11/2017 | 0.00095 (J) | | | | <0.001 |
| 8/9/2017 | | 0.0017 | 0.0013 | <0.001 | |
| 8/10/2017 | | | | | <0.001 |
| 3/29/2018 | <0.001 | | 0.0014 | | <0.001 |
| 3/30/2018 | | 0.0018 | | <0.001 | |
| 6/14/2018 | <0.001 | 0.002 | <0.001 | 0.00076 (J) | <0.001 |
| 10/3/2018 | | 0.0024 | | | |
| 10/4/2018 | 0.0017 | | 0.0013 | 0.00088 (J) | <0.001 |
| 2/26/2019 | | | | 0.0005 (J) | |
| 2/27/2019 | <0.001 | 0.0015 | 0.00046 (J) | | |
| 2/28/2019 | | | | | <0.001 |
| 4/2/2019 | | | | | <0.001 |
| 4/3/2019 | <0.001 | | | | |
| 4/4/2019 | | 0.0019 | <0.001 | <0.001 | |
| 9/18/2019 | <0.001 | 0.0016 | <0.001 | <0.001 | <0.001 |
| 2/5/2020 | <0.001 | | | | |
| 2/7/2020 | | 0.001 | <0.001 | 0.00075 (J) | <0.001 |
| 3/18/2020 | | 0.00088 (J) | <0.001 | 0.00054 (J) | |
| 3/19/2020 | <0.001 | | | | |
| 5/4/2020 | | | | | <0.001 |
| 9/23/2020 | | 0.00061 (J) | <0.001 | 0.00067 (J) | <0.001 |
| 9/24/2020 | <0.001 | | | | |
| 2/3/2021 | | | | | <0.001 |
| 2/4/2021 | <0.001 | 0.00069 (J) | <0.001 | 0.00035 (J) | |
| 3/11/2021 | <0.001 | | <0.001 | <0.001 | <0.001 |
| 3/12/2021 | | 0.00084 (J) | | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | 0.041 | 0.0221 | 0.0308 | | | | |
| 5/18/2016 | | | | 0.0174 | 0.00723 | 0.0198 | 0.00518 |
| 7/19/2016 | 0.038 | 0.018 | 0.022 | | | 0.015 | 0.0049 |
| 7/20/2016 | | | | 0.012 | 0.0051 | | |
| 9/13/2016 | 0.029 | 0.021 | 0.021 | 0.013 | 0.0058 | | 0.006 |
| 9/14/2016 | | | | | | 0.062 | |
| 11/9/2016 | 0.041 | 0.011 | 0.025 | | | | 0.0066 |
| 11/10/2016 | | | | 0.013 | 0.0063 | | |
| 1/17/2017 | 0.044 | | 0.017 | | | | |
| 1/18/2017 | | | | 0.014 | 0.0059 | | 0.007 |
| 1/19/2017 | | 0.012 | | | | 0.034 | |
| 3/13/2017 | 0.042 | | 0.019 | | | | |
| 3/14/2017 | | 0.017 | | 0.014 | 0.0058 | 0.018 | 0.014 |
| 4/24/2017 | 0.039 | | 0.019 | | | | |
| 4/25/2017 | | 0.017 | | 0.015 | 0.0056 | 0.018 | 0.0062 |
| 8/8/2017 | 0.044 | 0.021 | 0.022 | 0.015 | | | 0.0065 |
| 8/9/2017 | | | | | 0.0056 | 0.016 | |
| 3/27/2018 | 0.041 | | 0.021 | | | | |
| 3/28/2018 | | 0.019 | | 0.014 | 0.0052 | 0.015 | 0.0059 |
| 6/13/2018 | 0.045 | 0.013 | | | | 0.016 | 0.0067 |
| 6/14/2018 | | | 0.02 | 0.013 | 0.0057 | | |
| 9/24/2018 | | | 0.02 | | | | |
| 9/27/2018 | 0.047 | | | | | | |
| 9/28/2018 | | 0.014 | | | | | |
| 10/2/2018 | | | | | | | 0.0066 |
| 10/3/2018 | | | | 0.014 | 0.0054 | 0.016 | |
| 2/25/2019 | 0.049 | | 0.027 | | | | |
| 2/26/2019 | | 0.015 | | 0.014 | 0.012 | 0.02 | 0.011 |
| 4/1/2019 | 0.044 | | 0.027 | | | | |
| 4/2/2019 | | 0.014 | | 0.014 | 0.0056 | 0.016 | 0.0069 |
| 9/16/2019 | 0.05 | | | | | 0.027 | 0.0073 (J) |
| 9/17/2019 | | 0.013 | 0.024 | | 0.0063 (J) | | |
| 9/18/2019 | | | | 0.013 | | | |
| 2/3/2020 | 0.053 | | 0.045 | | | | |
| 2/4/2020 | | | | 0.019 | 0.0087 (J) | 0.022 | 0.013 |
| 2/5/2020 | | 0.02 | | | | | |
| 3/16/2020 | 0.046 | | 0.026 | | | | |
| 3/17/2020 | | 0.013 | | 0.013 | 0.0059 (J) | 0.017 | 0.0081 (J) |
| 9/21/2020 | | | 0.024 | 0.015 | 0.006 (J) | | |
| 9/22/2020 | 0.048 | 0.015 | | | | 0.032 | 0.0079 (J) |
| 2/2/2021 | 0.05 | 0.017 | 0.025 | 0.015 | 0.006 (J) | | |
| 2/3/2021 | | | | | | 0.015 | 0.0079 (J) |
| 3/10/2021 | | 0.016 | 0.024 | 0.014 | 0.0057 (J) | 0.016 | |
| 3/11/2021 | 0.046 | | | | | | 0.0077 (J) |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|-------------|-------------|---------|---------|---------|---------|
| 5/18/2016 | 0.0114 | | | 0.0391 | | | |
| 5/19/2016 | | 0.0026 | <0.01 | | 0.031 | 0.0214 | 0.055 |
| 7/19/2016 | 0.012 | | | | | | |
| 7/20/2016 | | 0.0017 (J) | 0.0014 (J) | 0.028 | 0.029 | 0.019 | 0.039 |
| 9/13/2016 | 0.011 | | | | | | |
| 9/14/2016 | | | 0.00092 (J) | 0.035 | 0.031 | 0.02 | 0.04 |
| 9/15/2016 | | 0.0039 | | | | | |
| 11/10/2016 | 0.016 | | | | | | 0.04 |
| 11/11/2016 | | | | 0.042 | 0.034 | 0.022 | |
| 11/14/2016 | | 0.00085 (J) | | | | | |
| 1/18/2017 | 0.013 | | | | | | |
| 1/27/2017 | | | | | 0.042 | 0.023 | 0.042 |
| 2/6/2017 | | 0.0011 (J) | | 0.041 | | | |
| 2/9/2017 | | | 0.0015 (J) | | | | |
| 3/14/2017 | 0.01 | | | | | | |
| 3/15/2017 | | 0.0013 (J) | 0.00054 (J) | 0.04 | 0.032 | 0.024 | 0.058 |
| 4/11/2017 | | | 0.0007 (J) | | | | |
| 4/25/2017 | 0.012 | | | | | | |
| 4/26/2017 | | 0.00098 (J) | <0.01 | 0.039 | 0.03 | 0.004 | 0.054 |
| 8/8/2017 | 0.012 | | | | | | |
| 8/9/2017 | | | | | | | 0.055 |
| 8/10/2017 | | 0.0025 | 0.00053 (J) | 0.038 | 0.03 | 0.017 | |
| 3/28/2018 | 0.01 | | | | | | |
| 3/29/2018 | | 0.00085 (J) | <0.01 | | 0.028 | 0.017 | 0.061 |
| 3/30/2018 | | | | 0.042 | | | |
| 6/14/2018 | 0.012 | 0.0028 | 0.00088 (J) | 0.038 | 0.03 | 0.015 | 0.055 |
| 10/3/2018 | 0.011 | | | | | | |
| 10/4/2018 | | 0.0017 (J) | 0.00076 (J) | 0.04 | 0.035 | 0.017 | 0.046 |
| 2/26/2019 | 0.013 | | | | | | |
| 2/27/2019 | | <0.01 | | 0.04 | 0.04 | 0.016 | 0.054 |
| 2/28/2019 | | | 0.0023 (J) | | | | |
| 4/2/2019 | 0.011 | | | | | | |
| 4/3/2019 | | 0.001 (J) | <0.01 | | 0.035 | 0.015 | 0.056 |
| 4/4/2019 | | | | 0.04 | | | |
| 9/18/2019 | 0.012 | | | | | | 0.062 |
| 9/19/2019 | | <0.01 | 0.0018 (J) | 0.038 | 0.033 | 0.016 | |
| 2/5/2020 | 0.012 | | 0.0022 (J) | 0.061 | 0.047 | 0.016 | 0.052 |
| 2/7/2020 | | <0.01 | | | | | |
| 3/17/2020 | 0.012 | | | | | | |
| 3/18/2020 | | | | 0.035 | 0.038 | 0.016 | |
| 3/19/2020 | | <0.01 | 0.0021 (J) | | | | 0.072 |
| 9/22/2020 | 0.013 | <0.01 | | | | | |
| 9/23/2020 | | | <0.01 | 0.035 | | 0.016 | |
| 9/24/2020 | | | | | 0.061 | | 0.038 |
| 2/2/2021 | 0.012 | | | | | | |
| 2/3/2021 | | <0.01 | | | 0.039 | 0.015 | |
| 2/4/2021 | | | 0.0016 (J) | 0.035 | | | 0.047 |
| 3/10/2021 | 0.011 | | | | | | |
| 3/11/2021 | | <0.01 | | 0.033 | | | 0.049 |
| 3/12/2021 | | | <0.01 | | 0.045 | 0.017 | |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 |
|------------|----------|---------|---------|---------|-------------|
| 5/18/2016 | | 0.0206 | 0.0715 | 0.0219 | |
| 7/19/2016 | | 0.019 | 0.069 | | |
| 7/20/2016 | | | | 0.019 | |
| 9/14/2016 | | 0.02 | 0.066 | 0.017 | |
| 11/10/2016 | | 0.02 | 0.069 | 0.02 | |
| 11/11/2016 | | | | | 0.0022 (J) |
| 1/20/2017 | | | | 0.018 | |
| 1/24/2017 | | 0.017 | 0.068 | | |
| 2/6/2017 | | | | | 0.0018 (J) |
| 2/8/2017 | 0.037 | | | | |
| 2/23/2017 | 0.051 | | | | |
| 3/14/2017 | | 0.018 | | 0.019 | |
| 3/15/2017 | | | 0.065 | | 0.0015 (J) |
| 3/17/2017 | 0.046 | | | | |
| 4/11/2017 | 0.055 | | | | 0.0014 (J) |
| 4/25/2017 | | 0.018 | 0.057 | 0.023 | |
| 4/26/2017 | 0.042 | | | | 0.0014 (J) |
| 5/17/2017 | 0.052 | | | | |
| 6/7/2017 | 0.06 | | | | 0.0014 (J) |
| 7/11/2017 | 0.038 | | | | 0.0013 (J) |
| 8/9/2017 | | 0.02 | 0.069 | 0.017 | |
| 8/10/2017 | | | | | 0.0012 (J) |
| 3/29/2018 | 0.028 | | 0.05 | | 0.00097 (J) |
| 3/30/2018 | | 0.021 | | 0.015 | |
| 6/14/2018 | 0.023 | 0.022 | 0.046 | 0.013 | 0.0011 (J) |
| 10/3/2018 | | 0.024 | | | |
| 10/4/2018 | 0.036 | | 0.046 | 0.013 | 0.0012 (J) |
| 2/26/2019 | | | | 0.012 | |
| 2/27/2019 | 0.028 | 0.023 | 0.028 | | |
| 2/28/2019 | | | | | <0.01 |
| 4/2/2019 | | | | | 0.0013 (J) |
| 4/3/2019 | 0.026 | | | | |
| 4/4/2019 | | 0.022 | 0.027 | 0.011 | |
| 9/18/2019 | 0.025 | 0.026 | 0.032 | 0.011 | <0.01 |
| 2/5/2020 | 0.077 | | | | |
| 2/7/2020 | | 0.022 | 0.034 | 0.011 | 0.0065 (J) |
| 3/18/2020 | | 0.021 | 0.034 | 0.012 | |
| 3/19/2020 | 0.031 | | | | |
| 5/4/2020 | | | | | <0.01 |
| 9/23/2020 | | 0.027 | 0.037 | 0.012 | <0.01 |
| 9/24/2020 | 0.034 | | | | |
| 2/3/2021 | | | | | <0.01 |
| 2/4/2021 | 0.029 | 0.028 | 0.039 | 0.012 | |
| 3/11/2021 | 0.032 | | 0.037 | 0.011 | <0.01 |
| 3/12/2021 | | 0.028 | | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <0.0025 | <0.0025 | <0.0025 | | | | |
| 5/18/2016 | | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 7/19/2016 | <0.0025 | <0.0025 | <0.0025 | | | <0.0025 | <0.0025 |
| 7/20/2016 | | | | <0.0025 | <0.0025 | | |
| 9/13/2016 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | | <0.0025 |
| 9/14/2016 | | | | | | <0.0025 | |
| 11/9/2016 | <0.0025 | <0.0025 | <0.0025 | | | | <0.0025 |
| 11/10/2016 | | | | <0.0025 | <0.0025 | | |
| 1/17/2017 | <0.0025 | | <0.0025 | | | | |
| 1/18/2017 | | | | <0.0025 | <0.0025 | | <0.0025 |
| 1/19/2017 | | <0.0025 | | | | <0.0025 | |
| 3/13/2017 | <0.0025 | | <0.0025 | | | | |
| 3/14/2017 | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/24/2017 | <0.0025 | | <0.0025 | | | | |
| 4/25/2017 | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 8/8/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | | | <0.0025 |
| 8/9/2017 | | | | | <0.0025 | <0.0025 | |
| 3/27/2018 | <0.0025 | | <0.0025 | | | | |
| 3/28/2018 | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 6/13/2018 | <0.0025 | <0.0025 | | | | <0.0025 | <0.0025 |
| 6/14/2018 | | | <0.0025 | <0.0025 | <0.0025 | | |
| 9/24/2018 | | | <0.0025 | | | | |
| 9/27/2018 | <0.0025 | | | | | | |
| 9/28/2018 | | <0.0025 | | | | | |
| 10/2/2018 | | | | | | | <0.0025 |
| 10/3/2018 | | | | <0.0025 | <0.0025 | <0.0025 | |
| 2/25/2019 | <0.0025 | | <0.0025 | | | | |
| 2/26/2019 | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/1/2019 | <0.0025 | | <0.0025 | | | | |
| 4/2/2019 | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 9/16/2019 | 0.00032 (J) | | | | | 0.00036 (J) | 0.0011 |
| 9/17/2019 | | <0.0025 | 0.00019 (J) | | <0.0025 | | |
| 9/18/2019 | | | | <0.0025 | | | |
| 2/3/2020 | <0.0025 | | <0.0025 | | | | |
| 2/4/2020 | | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 2/5/2020 | | <0.0025 | | | | | |
| 3/16/2020 | 0.00071 (J) | | 0.00076 (J) | | | | |
| 3/17/2020 | | <0.0025 | | 0.00021 (J) | <0.0025 | <0.0025 | <0.0025 |
| 9/21/2020 | | | <0.0025 | <0.0025 | <0.0025 | | |
| 9/22/2020 | <0.0025 | <0.0025 | | | | <0.0025 | <0.0025 |
| 2/2/2021 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | | |
| 2/3/2021 | | | | | | <0.0025 | <0.0025 |
| 3/10/2021 | | <0.0025 | 0.00065 (J) | 0.00019 (J) | <0.0025 | <0.0025 | |
| 3/11/2021 | 0.00029 (J) | | | | | | <0.0025 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|-------------|-------------|---------|---------|---------|---------|
| 5/18/2016 | <0.0025 | | | <0.0025 | | | |
| 5/19/2016 | | 0.00102 (J) | <0.0025 | | <0.0025 | <0.0025 | <0.0025 |
| 7/19/2016 | <0.0025 | | | | | | |
| 7/20/2016 | | 0.0014 (J) | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 9/13/2016 | <0.0025 | | | | | | |
| 9/14/2016 | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 9/15/2016 | | 0.00093 (J) | | | | | |
| 11/10/2016 | <0.0025 | | | | | | <0.0025 |
| 11/11/2016 | | | | <0.0025 | <0.0025 | <0.0025 | |
| 11/14/2016 | | 0.0014 (J) | | | | | |
| 1/18/2017 | <0.0025 | | | | | | |
| 1/27/2017 | | | | | <0.0025 | <0.0025 | <0.0025 |
| 2/6/2017 | | 0.0017 (J) | | <0.0025 | | | |
| 2/9/2017 | | | 0.00041 (J) | | | | |
| 3/14/2017 | <0.0025 | | | | | | |
| 3/15/2017 | | 0.0016 (J) | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/11/2017 | | | <0.0025 | | | | |
| 4/25/2017 | <0.0025 | | | | | | |
| 4/26/2017 | | 0.0017 (J) | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 8/8/2017 | <0.0025 | | | | | | |
| 8/9/2017 | | | | | | | <0.0025 |
| 8/10/2017 | | 0.0017 (J) | 0.00034 (J) | <0.0025 | <0.0025 | <0.0025 | |
| 3/28/2018 | <0.0025 | | | | | | |
| 3/29/2018 | | 0.0018 (J) | <0.0025 | | <0.0025 | <0.0025 | <0.0025 |
| 3/30/2018 | | | | <0.0025 | | | |
| 6/14/2018 | <0.0025 | 0.0015 (J) | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 10/3/2018 | <0.0025 | | | | | | |
| 10/4/2018 | | 0.0019 (J) | 0.00036 (J) | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 2/26/2019 | <0.0025 | | | | | | |
| 2/27/2019 | | 0.0021 (J) | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 2/28/2019 | | | 0.00031 (J) | | | | |
| 4/2/2019 | <0.0025 | | | | | | |
| 4/3/2019 | | 0.0019 (J) | <0.0025 | | <0.0025 | <0.0025 | <0.0025 |
| 4/4/2019 | | | | <0.0025 | | | |
| 9/18/2019 | <0.0025 | | | | | | <0.0025 |
| 9/19/2019 | | 0.0019 | 0.00041 (J) | <0.0025 | <0.0025 | <0.0025 | |
| 2/5/2020 | 0.00041 (J) | | 0.0004 (J) | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 2/7/2020 | | 0.0023 | | | | | |
| 3/17/2020 | <0.0025 | | | | | | |
| 3/18/2020 | | | | <0.0025 | <0.0025 | <0.0025 | |
| 3/19/2020 | | 0.0028 | 0.00056 (J) | | | | <0.0025 |
| 9/22/2020 | <0.0025 | 0.0025 | | | | | |
| 9/23/2020 | | | 0.00034 (J) | <0.0025 | | <0.0025 | |
| 9/24/2020 | | | | | <0.0025 | | <0.0025 |
| 2/2/2021 | <0.0025 | | | | | | |
| 2/3/2021 | | 0.0025 | | | <0.0025 | <0.0025 | |
| 2/4/2021 | | | 0.00039 (J) | <0.0025 | | | <0.0025 |
| 3/10/2021 | <0.0025 | | | | | | |
| 3/11/2021 | | 0.0022 (J) | | <0.0025 | | | <0.0025 |
| 3/12/2021 | | | 0.00034 (J) | | <0.0025 | <0.0025 | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 |
|------------|-------------|---------|-------------|---------|---------|
| 5/18/2016 | | <0.0025 | <0.0025 | <0.0025 | |
| 7/19/2016 | | <0.0025 | <0.0025 | | |
| 7/20/2016 | | | | <0.0025 | |
| 9/14/2016 | | <0.0025 | <0.0025 | <0.0025 | |
| 11/10/2016 | | <0.0025 | <0.0025 | <0.0025 | |
| 11/11/2016 | | | | | <0.0025 |
| 1/20/2017 | | | | <0.0025 | |
| 1/24/2017 | | <0.0025 | <0.0025 | | |
| 2/6/2017 | | | | | <0.0025 |
| 2/8/2017 | <0.0025 | | | | |
| 2/23/2017 | <0.0025 | | | | |
| 3/14/2017 | | <0.0025 | | <0.0025 | |
| 3/15/2017 | | | <0.0025 | | <0.0025 |
| 3/17/2017 | <0.0025 | | | | |
| 4/11/2017 | <0.0025 | | | | <0.0025 |
| 4/25/2017 | | <0.0025 | <0.0025 | <0.0025 | |
| 4/26/2017 | <0.0025 | | | | <0.0025 |
| 5/17/2017 | <0.0025 | | | | |
| 6/7/2017 | <0.0025 | | | | <0.0025 |
| 7/11/2017 | <0.0025 | | | | <0.0025 |
| 8/9/2017 | | <0.0025 | <0.0025 | <0.0025 | |
| 8/10/2017 | | | | | <0.0025 |
| 3/29/2018 | <0.0025 | | <0.0025 | | <0.0025 |
| 3/30/2018 | | <0.0025 | | <0.0025 | |
| 6/14/2018 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 10/3/2018 | | <0.0025 | | | |
| 10/4/2018 | <0.0025 | | <0.0025 | <0.0025 | <0.0025 |
| 2/26/2019 | | | | <0.0025 | |
| 2/27/2019 | 0.00017 (J) | <0.0025 | 0.00022 (J) | | |
| 2/28/2019 | | | | | <0.0025 |
| 4/2/2019 | | | | | <0.0025 |
| 4/3/2019 | <0.0025 | | | | |
| 4/4/2019 | | <0.0025 | <0.0025 | <0.0025 | |
| 9/18/2019 | 0.00032 (J) | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 2/5/2020 | 0.00024 (J) | | | | |
| 2/7/2020 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 3/18/2020 | | <0.0025 | <0.0025 | <0.0025 | |
| 3/19/2020 | 0.00025 (J) | | | | |
| 5/4/2020 | | | | | <0.0025 |
| 9/23/2020 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 9/24/2020 | 0.00024 (J) | | | | |
| 2/3/2021 | | | | | <0.0025 |
| 2/4/2021 | 0.00026 (J) | <0.0025 | <0.0025 | <0.0025 | |
| 3/11/2021 | <0.0025 | | <0.0025 | <0.0025 | <0.0025 |
| 3/12/2021 | | <0.0025 | | | |

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <0.08 | <0.08 | <0.08 | | | | |
| 5/18/2016 | | | | <0.08 | <0.08 | <0.08 | <0.08 |
| 7/19/2016 | <0.08 | <0.08 | <0.08 | | | <0.08 | <0.08 |
| 7/20/2016 | | | | <0.08 | <0.08 | | |
| 9/13/2016 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | | <0.08 |
| 9/14/2016 | | | | | | <0.08 | |
| 11/9/2016 | <0.08 | <0.08 | <0.08 | | | | <0.08 |
| 11/10/2016 | | | | <0.08 | <0.08 | | |
| 1/17/2017 | <0.08 | | <0.08 | | | | |
| 1/18/2017 | | | | <0.08 | <0.08 | | <0.08 |
| 1/19/2017 | | <0.08 | | | | <0.08 | |
| 3/13/2017 | <0.08 | | <0.08 | | | | |
| 3/14/2017 | | <0.08 | | <0.08 | <0.08 | <0.08 | <0.08 |
| 4/24/2017 | <0.08 | | <0.08 | | | | |
| 4/25/2017 | | <0.08 | | <0.08 | <0.08 | <0.08 | <0.08 |
| 8/8/2017 | <0.08 | <0.08 | <0.08 | <0.08 | | | <0.08 |
| 8/9/2017 | | | | | <0.08 | <0.08 | |
| 10/10/2017 | <0.08 | | <0.08 | | | | |
| 10/11/2017 | | <0.08 | | <0.08 | <0.08 | <0.08 | <0.08 |
| 6/13/2018 | <0.08 | <0.08 | | | | <0.08 | <0.08 |
| 6/14/2018 | | | <0.08 | <0.08 | <0.08 | | |
| 9/24/2018 | | | <0.08 | | | | |
| 9/27/2018 | <0.08 | | | | | | |
| 9/28/2018 | | <0.08 | | | | | |
| 10/2/2018 | | | | | | | <0.08 |
| 10/3/2018 | | | | <0.08 | <0.08 | <0.08 | |
| 4/1/2019 | <0.08 | | <0.08 | | | | |
| 4/2/2019 | | <0.08 | | <0.08 | <0.08 | <0.08 | <0.08 |
| 9/16/2019 | <0.08 | | | | | <0.08 | <0.08 |
| 9/17/2019 | | <0.08 | <0.08 | | <0.08 | | |
| 9/18/2019 | | | | <0.08 | | | |
| 3/16/2020 | <0.08 | | 0.048 (J) | | | | |
| 3/17/2020 | | <0.08 | | <0.08 | <0.08 | <0.08 | <0.08 |
| 9/21/2020 | | | <0.08 | <0.08 | <0.08 | | |
| 9/22/2020 | <0.08 | <0.08 | | | | <0.08 | <0.08 |
| 3/10/2021 | | <0.08 | 0.039 (J) | <0.08 | <0.08 | <0.08 | |
| 3/11/2021 | <0.08 | | | | | | <0.08 |

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|--------|--------|-----------|-----------|-----------|------------|
| 5/18/2016 | <0.08 | | | <0.08 | | | |
| 5/19/2016 | | 1.42 | 0.314 | | <0.08 | <0.08 | 0.0252 (J) |
| 7/19/2016 | <0.08 | | | | | | |
| 7/20/2016 | | 1.4 | 0.25 | <0.08 | <0.08 | <0.08 | <0.08 |
| 9/13/2016 | <0.08 | | | | | | |
| 9/14/2016 | | | 0.3 | <0.08 | <0.08 | <0.08 | <0.08 |
| 9/15/2016 | | 1.2 | | | | | |
| 11/10/2016 | <0.08 | | | | | | <0.08 |
| 11/11/2016 | | | | <0.08 | <0.08 | <0.08 | |
| 11/14/2016 | | 1.3 | | | | | |
| 1/18/2017 | <0.08 | | | | | | |
| 1/27/2017 | | | | | 0.021 (J) | 0.047 (J) | 0.033 (J) |
| 2/6/2017 | | 1.8 | | <0.08 | | | |
| 2/9/2017 | | | 0.61 | | | | |
| 3/14/2017 | <0.08 | | | | | | |
| 3/15/2017 | | 1.7 | 0.42 | 0.032 (J) | 0.058 | 0.024 (J) | <0.08 |
| 4/11/2017 | | | 0.37 | | | | |
| 4/25/2017 | <0.08 | | | | | | |
| 4/26/2017 | | 2 | 0.38 | <0.08 | <0.08 | <0.08 | <0.08 |
| 8/8/2017 | <0.08 | | | | | | |
| 8/9/2017 | | | | | | | <0.08 |
| 8/10/2017 | | 1.8 | 0.29 | <0.08 | <0.08 | <0.08 | |
| 10/11/2017 | <0.08 | | | | | | |
| 10/12/2017 | | 1.8 | 0.36 | <0.08 | <0.08 | <0.08 | <0.08 |
| 6/14/2018 | <0.08 | 1.7 | 0.39 | <0.08 | <0.08 | <0.08 | <0.08 |
| 10/3/2018 | <0.08 | | | | | | |
| 10/4/2018 | | 1.9 | 0.37 | <0.08 | <0.08 | <0.08 | <0.08 |
| 4/2/2019 | <0.08 | | | | | | |
| 4/3/2019 | | 1.7 | 0.35 | | <0.08 | <0.08 | <0.08 |
| 4/4/2019 | | | | 0.024 (J) | | | |
| 9/18/2019 | <0.08 | | | | | | <0.08 |
| 9/19/2019 | | 1.7 | 0.39 | <0.08 | <0.08 | <0.08 | |
| 3/17/2020 | <0.08 | | | | | | |
| 3/18/2020 | | | | 0.049 (J) | <0.08 | 0.039 (J) | |
| 3/19/2020 | | 2.2 | 0.55 | | | | 0.053 (J) |
| 9/22/2020 | <0.08 | 2.5 | | | | | |
| 9/23/2020 | | | 0.68 | <0.08 | | <0.08 | |
| 9/24/2020 | | | | | <0.08 | | <0.08 |
| 3/10/2021 | <0.08 | | | | | | |
| 3/11/2021 | | 2.4 | | <0.08 | | | <0.08 |
| 3/12/2021 | | | 0.64 | | <0.08 | <0.08 | |

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-22 | WGWC-23 | WGWC-24 | WGWC-25 |
|----------|---------|-----------|---------|---------|
| 3/8/2021 | | | | 0.48 |
| 3/9/2021 | 0.33 | 0.073 (J) | 1.8 | |
| 4/7/2021 | | <0.08 | 1.9 | |
| 4/8/2021 | 0.21 | | | 0.43 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <0.0025 | <0.0025 | <0.0025 | | | | |
| 5/18/2016 | | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 7/19/2016 | <0.0025 | <0.0025 | <0.0025 | | | <0.0025 | <0.0025 |
| 7/20/2016 | | | | <0.0025 | <0.0025 | | |
| 9/13/2016 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | | <0.0025 |
| 9/14/2016 | | | | | | <0.0025 | |
| 11/9/2016 | <0.0025 | <0.0025 | <0.0025 | | | | <0.0025 |
| 11/10/2016 | | | | <0.0025 | <0.0025 | | |
| 1/17/2017 | <0.0025 | | <0.0025 | | | | |
| 1/18/2017 | | | | <0.0025 | <0.0025 | | <0.0025 |
| 1/19/2017 | | <0.0025 | | | | <0.0025 | |
| 3/13/2017 | <0.0025 | | <0.0025 | | | | |
| 3/14/2017 | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/24/2017 | <0.0025 | | <0.0025 | | | | |
| 4/25/2017 | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 8/8/2017 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | | | <0.0025 |
| 8/9/2017 | | | | | <0.0025 | <0.0025 | |
| 3/27/2018 | <0.0025 | | <0.0025 | | | | |
| 3/28/2018 | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 6/13/2018 | <0.0025 | <0.0025 | | | | <0.0025 | <0.0025 |
| 6/14/2018 | | | <0.0025 | <0.0025 | <0.0025 | | |
| 9/24/2018 | | | <0.0025 | | | | |
| 9/27/2018 | <0.0025 | | | | | | |
| 9/28/2018 | | <0.0025 | | | | | |
| 10/2/2018 | | | | | | | <0.0025 |
| 10/3/2018 | | | | <0.0025 | <0.0025 | <0.0025 | |
| 2/25/2019 | <0.0025 | | <0.0025 | | | | |
| 2/26/2019 | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/1/2019 | <0.0025 | | <0.0025 | | | | |
| 4/2/2019 | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 9/16/2019 | <0.0025 | | | | | <0.0025 | <0.0025 |
| 9/17/2019 | | <0.0025 | <0.0025 | | <0.0025 | | |
| 9/18/2019 | | | | <0.0025 | | | |
| 2/3/2020 | <0.0025 | | <0.0025 | | | | |
| 2/4/2020 | | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 2/5/2020 | | <0.0025 | | | | | |
| 3/16/2020 | <0.0025 | | <0.0025 | | | | |
| 3/17/2020 | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 9/21/2020 | | | <0.0025 | <0.0025 | <0.0025 | | |
| 9/22/2020 | <0.0025 | <0.0025 | | | | <0.0025 | <0.0025 |
| 2/2/2021 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | | |
| 2/3/2021 | | | | | | <0.0025 | <0.0025 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|---------|---------|-------------|---------|---------|---------|
| 5/18/2016 | <0.0025 | | | <0.0025 | | | |
| 5/19/2016 | | <0.0025 | <0.0025 | | <0.0025 | <0.0025 | <0.0025 |
| 7/19/2016 | <0.0025 | | | | | | |
| 7/20/2016 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 9/13/2016 | <0.0025 | | | | | | |
| 9/14/2016 | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 9/15/2016 | | <0.0025 | | | | | |
| 11/10/2016 | <0.0025 | | | | | | <0.0025 |
| 11/11/2016 | | | | <0.0025 | <0.0025 | <0.0025 | |
| 11/14/2016 | | <0.0025 | | | | | |
| 1/18/2017 | <0.0025 | | | | | | |
| 1/27/2017 | | | | | <0.0025 | <0.0025 | <0.0025 |
| 2/6/2017 | | <0.0025 | | <0.0025 | | | |
| 2/9/2017 | | | <0.0025 | | | | |
| 3/14/2017 | <0.0025 | | | | | | |
| 3/15/2017 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 4/11/2017 | | | <0.0025 | | | | |
| 4/25/2017 | <0.0025 | | | | | | |
| 4/26/2017 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 8/8/2017 | <0.0025 | | | | | | |
| 8/9/2017 | | | | | | | <0.0025 |
| 8/10/2017 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | |
| 3/28/2018 | <0.0025 | | | | | | |
| 3/29/2018 | | <0.0025 | <0.0025 | | <0.0025 | <0.0025 | <0.0025 |
| 3/30/2018 | | | | <0.0025 | | | |
| 6/14/2018 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 10/3/2018 | <0.0025 | | | | | | |
| 10/4/2018 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 2/26/2019 | <0.0025 | | | | | | |
| 2/27/2019 | | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 2/28/2019 | | | <0.0025 | | | | |
| 4/2/2019 | <0.0025 | | | | | | |
| 4/3/2019 | | <0.0025 | <0.0025 | | <0.0025 | <0.0025 | <0.0025 |
| 4/4/2019 | | | | <0.0025 | | | |
| 9/18/2019 | <0.0025 | | | | | | <0.0025 |
| 9/19/2019 | | <0.0025 | <0.0025 | 0.00021 (J) | <0.0025 | <0.0025 | |
| 2/5/2020 | <0.0025 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 2/7/2020 | | <0.0025 | | | | | |
| 3/17/2020 | <0.0025 | | | | | | |
| 3/18/2020 | | | | <0.0025 | <0.0025 | <0.0025 | |
| 3/19/2020 | | <0.0025 | <0.0025 | | | | <0.0025 |
| 9/22/2020 | <0.0025 | <0.0025 | | | | | |
| 9/23/2020 | | | <0.0025 | <0.0025 | | <0.0025 | |
| 9/24/2020 | | | | | <0.0025 | | <0.0025 |
| 2/2/2021 | <0.0025 | | | | | | |
| 2/3/2021 | | <0.0025 | | | <0.0025 | <0.0025 | |
| 2/4/2021 | | | <0.0025 | <0.0025 | | | <0.0025 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 |
|------------|----------|---------|--------------|---------|---------|
| 5/18/2016 | | <0.0025 | 0.000362 (J) | <0.0025 | |
| 7/19/2016 | | <0.0025 | <0.0025 | | |
| 7/20/2016 | | | | <0.0025 | |
| 9/14/2016 | | <0.0025 | 0.00037 (J) | <0.0025 | |
| 11/10/2016 | | <0.0025 | <0.0025 | <0.0025 | |
| 11/11/2016 | | | | | <0.0025 |
| 1/20/2017 | | | | <0.0025 | |
| 1/24/2017 | | <0.0025 | 0.00055 (J) | | |
| 2/6/2017 | | | | | <0.0025 |
| 2/8/2017 | <0.0025 | | | | |
| 2/23/2017 | <0.0025 | | | | |
| 3/14/2017 | | <0.0025 | | <0.0025 | |
| 3/15/2017 | | | 0.00067 (J) | | <0.0025 |
| 3/17/2017 | <0.0025 | | | | |
| 4/11/2017 | <0.0025 | | | | <0.0025 |
| 4/25/2017 | | <0.0025 | 0.00058 (J) | <0.0025 | |
| 4/26/2017 | <0.0025 | | | | <0.0025 |
| 5/17/2017 | <0.0025 | | | | |
| 6/7/2017 | <0.0025 | | | | <0.0025 |
| 7/11/2017 | <0.0025 | | | | <0.0025 |
| 8/9/2017 | | <0.0025 | 0.00054 (J) | <0.0025 | |
| 8/10/2017 | | | | | <0.0025 |
| 3/29/2018 | <0.0025 | | 0.00082 (J) | | <0.0025 |
| 3/30/2018 | | <0.0025 | | <0.0025 | |
| 6/14/2018 | <0.0025 | <0.0025 | 0.0007 (J) | <0.0025 | <0.0025 |
| 10/3/2018 | | <0.0025 | | | |
| 10/4/2018 | <0.0025 | | 0.00065 (J) | <0.0025 | <0.0025 |
| 2/26/2019 | | | | <0.0025 | |
| 2/27/2019 | <0.0025 | <0.0025 | 0.00055 (J) | | |
| 2/28/2019 | | | | | <0.0025 |
| 4/2/2019 | | | | | <0.0025 |
| 4/3/2019 | <0.0025 | | | | |
| 4/4/2019 | | <0.0025 | 0.00047 (J) | <0.0025 | |
| 9/18/2019 | <0.0025 | <0.0025 | 0.00017 (J) | <0.0025 | <0.0025 |
| 2/5/2020 | <0.0025 | | | | |
| 2/7/2020 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 3/18/2020 | | <0.0025 | 0.00022 (J) | <0.0025 | |
| 3/19/2020 | <0.0025 | | | | |
| 5/4/2020 | | | | | <0.0025 |
| 9/23/2020 | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 9/24/2020 | <0.0025 | | | | |
| 2/3/2021 | | | | | <0.0025 |
| 2/4/2021 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | |

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | 0.927 | 23.7 | 12.2 | | | | |
| 5/18/2016 | | | | 2.1 | 17.9 | 1.7 | 27 |
| 7/19/2016 | 1 | 23 | 13 | | | 1.5 | 23 |
| 7/20/2016 | | | | 1.7 | 15 | | |
| 9/13/2016 | 0.44 | 23 | 13 | 1.3 | 16 | | 25 |
| 9/14/2016 | | | | | | 52 | |
| 11/9/2016 | 1.1 | 6.7 | 19 | | | | 25 |
| 11/10/2016 | | | | 1.6 | 15 | | |
| 1/17/2017 | 1.4 | | 28 | | | | |
| 1/18/2017 | | | | 1.7 | 17 | | 26 |
| 1/19/2017 | | 8.5 | | | | 13 | |
| 3/13/2017 | 1.1 | | 14 | | | | |
| 3/14/2017 | | 13 | | 1.8 | 17 | 1.6 | 20 |
| 4/24/2017 | 1.1 | | 12 | | | | |
| 4/25/2017 | | 23 | | 2 | 17 | 1.5 | 28 |
| 8/8/2017 | 1.1 | 24 | 18 | 2 | | | 26 |
| 8/9/2017 | | | | | 15 | 1.3 | |
| 10/10/2017 | 1.2 | | 21 | | | | |
| 10/11/2017 | | 23 | | 2.1 | 17 | 1.5 | 29 |
| 6/13/2018 | 1.1 | 11 | | | | 1.2 | 25 |
| 6/14/2018 | | | 12 | 2 | 15 | | |
| 9/24/2018 | | | 11 | | | | |
| 9/27/2018 | 1.2 | | | | | | |
| 9/28/2018 | | 11 | | | | | |
| 10/2/2018 | | | | | | | 26 |
| 10/3/2018 | | | | 1.8 | 16 | 1.4 | |
| 4/1/2019 | 1 | | 12 | | | | |
| 4/2/2019 | | 20 | | 1.8 | 15 | 1.1 | 25 |
| 9/16/2019 | 1.3 | | | | | 36 | 25 |
| 9/17/2019 | | 10 | 13 | | 16 | | |
| 9/18/2019 | | | | 1.6 | | | |
| 3/16/2020 | 1.1 | | 10 | | | | |
| 3/17/2020 | | 10 | | 1.7 | 15 | 1.4 | 26 |
| 9/21/2020 | | | 13 | 1.8 | 16 | | |
| 9/22/2020 | 1.2 | 19 | | | | 58 | 25 |
| 3/10/2021 | | 7.7 | 11 | 1.9 | 16 | 1.3 | |
| 3/11/2021 | 1.3 | | | | | | 26 |

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|--------|--------|---------|---------|---------|---------|
| 5/18/2016 | 1.36 | | | 7.17 | | | |
| 5/19/2016 | | 31.4 | 8.53 | | 1.95 | 15.8 | 11.4 |
| 7/19/2016 | 0.88 | | | | | | |
| 7/20/2016 | | 28 | 8.2 | 7 | 1.5 | 14 | 7.1 |
| 9/13/2016 | 0.93 | | | | | | |
| 9/14/2016 | | | 8.8 | 7.7 | 1.8 | 16 | 7.4 |
| 9/15/2016 | | 27 | | | | | |
| 11/10/2016 | 6.1 | | | | | | 6.4 |
| 11/11/2016 | | | | 8.2 | 1.7 | 15 | |
| 11/14/2016 | | 32 | | | | | |
| 1/18/2017 | 10 | | | | | | |
| 1/27/2017 | | | | | 3.5 | 16 | 6.2 |
| 2/6/2017 | | 41 | | 9.1 | | | |
| 2/9/2017 | | | 10 | | | | |
| 3/14/2017 | 1.3 | | | | | | |
| 3/15/2017 | | 38 | 8.6 | 9 | 3.8 | 16 | 6.7 |
| 4/11/2017 | | | 8.6 | | | | |
| 4/25/2017 | 1.9 | | | | | | |
| 4/26/2017 | | 39 | 7.1 | 8.1 | 4 | 3 | 6.5 |
| 8/8/2017 | 4.8 | | | | | | |
| 8/9/2017 | | | | | | | 7 |
| 8/10/2017 | | 53 | 7.5 | 8.1 | 3.5 | 15 | |
| 10/11/2017 | 0.93 | | | | | | |
| 10/12/2017 | | 60 | 8.2 | 8.6 | 2.7 | 16 | 7 |
| 6/14/2018 | 0.94 | 52 | 7.5 | 7.7 | 2.2 | 13 | 5.5 |
| 10/3/2018 | 1.2 | | | | | | |
| 10/4/2018 | | 65 | 8 | 8.5 | 2 | 15 | 5.9 |
| 4/2/2019 | 1.1 | | | | | | |
| 4/3/2019 | | 61 | 7.2 | | 1.7 | 14 | 4.7 |
| 4/4/2019 | | | | 7.9 | | | |
| 9/18/2019 | 1.5 | | | | | | 4.9 |
| 9/19/2019 | | 57 | 8.1 | 7.5 | 1.4 | 14 | |
| 3/17/2020 | 0.82 | | | | | | |
| 3/18/2020 | | | | 7.5 | 1.6 | 14 | |
| 3/19/2020 | | 79 | 9.3 | | | | 5 |
| 9/22/2020 | 0.89 | 81 | | | | | |
| 9/23/2020 | | | 10 | 7.7 | | 13 | |
| 9/24/2020 | | | | | 5.2 | | 1.4 |
| 3/10/2021 | 0.89 | | | | | | |
| 3/11/2021 | | 83 | | 7.9 | | | 4 |
| 3/12/2021 | | | 11 | | 1.6 | 15 | |

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 | WGWC-20 | WGWC-21 |
|------------|----------|---------|---------|---------|---------|---------|---------|
| 5/18/2016 | | 32.5 | 168 | 8.24 | | | |
| 7/19/2016 | | 30 | 190 | | | | |
| 7/20/2016 | | | | 11 | | | |
| 9/14/2016 | | 37 | 230 | 12 | | | |
| 11/10/2016 | | 29 | 240 | 11 | | | |
| 11/11/2016 | | | | | 12 | | |
| 1/20/2017 | | | | 10 | | | |
| 1/24/2017 | | 28 | 280 | | | | |
| 2/6/2017 | | | | | 11 | | |
| 2/8/2017 | 3.2 | | | | | | |
| 2/23/2017 | 4.1 | | | | | | |
| 3/14/2017 | | 29 | | 8.8 | | | |
| 3/15/2017 | | | 260 | | 10 | | |
| 3/17/2017 | 2.4 | | | | | | |
| 4/11/2017 | 4.1 | | | | 11 | | |
| 4/25/2017 | | 32 | 300 | 12 | | | |
| 4/26/2017 | 2.5 | | | | 8.4 | | |
| 5/17/2017 | 5.2 | | | | | | |
| 6/7/2017 | 5.2 | | | | 9 | | |
| 7/11/2017 | 2.3 | | | | 9.5 | | |
| 8/9/2017 | | 30 | 350 | 11 | | | |
| 8/10/2017 | | | | | 8.8 | | |
| 10/11/2017 | 3.8 | 31 | 360 | 10 | | | |
| 10/12/2017 | | | | | 9.5 | | |
| 6/14/2018 | 1.1 | 29 | 260 | 6.2 | 8.9 | | |
| 10/3/2018 | | 31 | | | | | |
| 10/4/2018 | 2 | | 250 | 6.4 | 10 | | |
| 4/2/2019 | | | | | 11 | | |
| 4/3/2019 | 0.84 | | | | | | |
| 4/4/2019 | | 30 | 110 | 5.6 | | | |
| 9/18/2019 | 0.85 | 31 | 62 | 5.5 | 8.8 | | |
| 3/18/2020 | | 30 | 66 | 6.3 | | | |
| 3/19/2020 | 0.89 | | | | | | |
| 5/4/2020 | | | | | 15 | | |
| 9/23/2020 | | 32 | 43 | 5.9 | 13 | | |
| 9/24/2020 | 0.99 | | | | | | |
| 3/8/2021 | | | | | | 90 | |
| 3/9/2021 | | | | | | | 66 |
| 3/11/2021 | 0.79 | | 32 | 5.7 | 15 | | |
| 3/12/2021 | | 31 | | | | | |
| 4/7/2021 | | | | | | | 67 |
| 4/8/2021 | | | | | | 88 | |

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-22 | WGWC-23 | WGWC-24 | WGWC-25 |
|----------|---------|---------|---------|---------|
| 3/8/2021 | | | | 14 |
| 3/9/2021 | 15 | 3.2 | 65 | |
| 4/7/2021 | | 2.7 | 71 | |
| 4/8/2021 | 14 | | | 16 |

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | 3.8 | 6.05 | 2.5 | | | | |
| 5/18/2016 | | | | 1.92 | 1.45 | 2.14 | 1.58 |
| 7/19/2016 | 3.9 | 4 | 2.6 | | | 2.4 | 1.6 |
| 7/20/2016 | | | | 1.8 | 1.4 | | |
| 9/13/2016 | 3.6 | 3.1 | 2.4 | 1.7 | 1.4 | | 1.4 |
| 9/14/2016 | | | | | | 2.1 | |
| 11/9/2016 | 3.9 | 2.3 | 2.3 | | | | 1.5 |
| 11/10/2016 | | | | 1.6 | 1.3 | | |
| 1/17/2017 | 3.8 | | 2.3 | | | | |
| 1/18/2017 | | | | 1.7 | 1.3 | | 1.5 |
| 1/19/2017 | | 2 | | | | 1.8 | |
| 3/13/2017 | 3.4 | | 2.2 | | | | |
| 3/14/2017 | | 1.9 | | 1.6 | 1.2 | 2 | 2.5 |
| 4/24/2017 | 3.4 | | 2.2 | | | | |
| 4/25/2017 | | 1.9 | | 1.6 | 1.2 | 1.8 | 1.3 |
| 8/8/2017 | 3.6 | 2 | 2.3 | 1.7 | | | 1.4 |
| 8/9/2017 | | | | | 1.2 | 1.9 | |
| 10/10/2017 | 3.6 | | 2.5 | | | | |
| 10/11/2017 | | 1.9 | | 1.6 | 1.2 | 2.1 | 1.3 |
| 6/13/2018 | 3.8 | 2 | | | | 1.7 | 1.4 |
| 6/14/2018 | | | 2.3 | 1.6 | 1.2 | | |
| 9/24/2018 | | | 2.4 | | | | |
| 9/27/2018 | 4 | | | | | | |
| 9/28/2018 | | 2.1 | | | | | |
| 10/2/2018 | | | | | | | 1.4 |
| 10/3/2018 | | | | 1.6 | 1.2 | 1.8 | |
| 4/1/2019 | 4 | | 2.4 | | | | |
| 4/2/2019 | | 2.6 | | 1.7 | 1.2 | 1.7 | 1.5 |
| 9/16/2019 | 4 | | | | | 1.8 | 1.5 |
| 9/17/2019 | | 2 | 2.4 | | 1.2 | | |
| 9/18/2019 | | | | 1.7 | | | |
| 3/16/2020 | 4.3 | | 2.7 | | | | |
| 3/17/2020 | | 2.3 | | 1.8 | 1.4 | 1.6 | 1.7 |
| 9/21/2020 | | | 2.5 | 1.5 | 1.2 | | |
| 9/22/2020 | 4 | 2.1 | | | | 1.5 | 1.4 |
| 3/10/2021 | | 1.9 | 2.6 | 1.8 | 1.2 | 1.8 | |
| 3/11/2021 | 4.5 | | | | | | 1.5 |

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|--------|--------|---------|---------|---------|---------|
| 5/18/2016 | 2.06 | | | 1.45 | | | |
| 5/19/2016 | | 17.5 | 1.46 | | 3.21 | 3.8 | 2.26 |
| 7/19/2016 | 2.1 | | | | | | |
| 7/20/2016 | | 19 | 1.5 | 1.6 | 3.4 | 3.8 | 1.9 |
| 9/13/2016 | 2 | | | | | | |
| 9/14/2016 | | | 1.4 | 1.5 | 3.1 | 3.7 | 1.6 |
| 9/15/2016 | | 19 | | | | | |
| 11/10/2016 | 1.8 | | | | | | 1.4 |
| 11/11/2016 | | | | 1.5 | 3.2 | 3.5 | |
| 11/14/2016 | | 25 | | | | | |
| 1/18/2017 | 1.8 | | | | | | |
| 1/27/2017 | | | | | 3.4 | 3.1 | 1.4 |
| 2/6/2017 | | 33 | | 1.4 | | | |
| 2/9/2017 | | | 1.5 | | | | |
| 3/14/2017 | 1.8 | | | | | | |
| 3/15/2017 | | 38 | 1.3 | 1.4 | 3.1 | 3.2 | 1.4 |
| 4/11/2017 | | | 1.2 | | | | |
| 4/25/2017 | 1.8 | | | | | | |
| 4/26/2017 | | 42 | 1.2 | 1.3 | 3.1 | 3.2 | 1.3 |
| 8/8/2017 | 1.9 | | | | | | |
| 8/9/2017 | | | | | | | 1.4 |
| 8/10/2017 | | 48 | 1.3 | 1.4 | 3.1 | 3.4 | |
| 10/11/2017 | 1.8 | | | | | | |
| 10/12/2017 | | 60 | 1.4 | 1.3 | 3 | 3.1 | 1.2 |
| 6/14/2018 | 1.7 | 58 | 1.2 | 1.3 | 3 | 3 | 1.2 |
| 10/3/2018 | 1.8 | | | | | | |
| 10/4/2018 | | 300 | 1.2 | 1.3 | 3.1 | 3.1 | 1.2 |
| 4/2/2019 | 1.9 | | | | | | |
| 4/3/2019 | | 70 | 2 | | 3.3 | 3 | 1.2 |
| 4/4/2019 | | | | 1.4 | | | |
| 9/18/2019 | 2 | | | | | | 1.2 |
| 9/19/2019 | | 70 | 1.5 | 1.5 | 3.2 | 3.2 | |
| 3/17/2020 | 2.2 | | | | | | |
| 3/18/2020 | | | | 1.5 | 3.2 | 3.2 | |
| 3/19/2020 | | 98 | 2.1 | | | | 1.3 |
| 9/22/2020 | 1.8 | 100 | | | | | |
| 9/23/2020 | | | 2.4 | 1.3 | | 2.8 | |
| 9/24/2020 | | | | | 1 | | 1.6 |
| 3/10/2021 | 1.9 | | | | | | |
| 3/11/2021 | | 110 | | 1.7 | | | 1.2 |
| 3/12/2021 | | | 3.4 | | 3.6 | 3.5 | |

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 | WGWC-20 | WGWC-21 |
|------------|----------|---------|---------|---------|---------|---------|---------|
| 5/18/2016 | | 4.59 | 217 | 2.72 | | | |
| 7/19/2016 | | 5.9 | 250 | | | | |
| 7/20/2016 | | | | 1.9 | | | |
| 9/14/2016 | | 7.9 | 260 | 1.6 | | | |
| 11/10/2016 | | 6.5 | 290 | 1.6 | | | |
| 11/11/2016 | | | | | 2.6 | | |
| 1/20/2017 | | | | 1.5 | | | |
| 1/24/2017 | | 4.1 | 310 | | | | |
| 2/6/2017 | | | | | 2.6 | | |
| 2/8/2017 | 2.5 | | | | | | |
| 2/23/2017 | 4.3 | | | | | | |
| 3/14/2017 | | 4.4 | | 1.5 | | | |
| 3/15/2017 | | | 330 | | 2.4 | | |
| 3/17/2017 | 4.8 | | | | | | |
| 4/11/2017 | 3.8 | | | | 2.3 | | |
| 4/25/2017 | | 4 | 330 | 1.8 | | | |
| 4/26/2017 | 4.8 | | | | 2.3 | | |
| 5/17/2017 | 3.9 | | | | | | |
| 6/7/2017 | 3.2 | | | | 2.5 | | |
| 7/11/2017 | 4.1 | | | | 2.3 | | |
| 8/9/2017 | | 3.6 | 330 | 1.4 | | | |
| 8/10/2017 | | | | | 2.5 | | |
| 10/11/2017 | 2.2 | 5 | 320 | 1.5 | | | |
| 10/12/2017 | | | | | 2.3 | | |
| 6/14/2018 | 2.8 | 4.3 | 290 | 1.5 | 2.4 | | |
| 10/3/2018 | | 4.8 | | | | | |
| 10/4/2018 | 2.2 | | 290 | 1.5 | 2.6 | | |
| 4/2/2019 | | | | | 2.5 | | |
| 4/3/2019 | 2.4 | | | | | | |
| 4/4/2019 | | 3.7 | 170 | 1.4 | | | |
| 9/18/2019 | 2.2 | 3.2 | 100 | 1.5 | 2.7 | | |
| 3/18/2020 | | 1.7 | 93 | 1.5 | | | |
| 3/19/2020 | 1.9 | | | | | | |
| 5/4/2020 | | | | | 2.8 | | |
| 9/23/2020 | | 1.5 | 58 | 1.2 | 2.6 | | |
| 9/24/2020 | 3.1 | | | | | | |
| 3/8/2021 | | | | | | 70 | |
| 3/9/2021 | | | | | | | 58 |
| 3/11/2021 | 2.6 | | 49 | 1.3 | 2.9 | | |
| 3/12/2021 | | 1.6 | | | | | |
| 4/7/2021 | | | | | | | 50 |
| 4/8/2021 | | | | | | 57 | |

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-22 | WGWC-23 | WGWC-24 | WGWC-25 |
|----------|---------|---------|---------|---------|
| 3/8/2021 | | | | 74 |
| 3/9/2021 | 2.9 | 3.5 | 110 | |
| 4/7/2021 | | 3.7 | 110 | |
| 4/8/2021 | 2.4 | | | 77 |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <0.002 | <0.002 | <0.002 | | | | |
| 5/18/2016 | | | | <0.002 | <0.002 | <0.002 | <0.002 |
| 7/19/2016 | <0.002 | <0.002 | <0.002 | | | <0.002 | <0.002 |
| 7/20/2016 | | | | <0.002 | <0.002 | | |
| 9/13/2016 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | | <0.002 |
| 9/14/2016 | | | | | | 0.0031 | |
| 11/9/2016 | <0.002 | <0.002 | <0.002 | | | | <0.002 |
| 11/10/2016 | | | | <0.002 | <0.002 | | |
| 1/17/2017 | <0.002 | | <0.002 | | | | |
| 1/18/2017 | | | | <0.002 | <0.002 | | <0.002 |
| 1/19/2017 | | <0.002 | | | | <0.002 | |
| 3/13/2017 | <0.002 | | <0.002 | | | | |
| 3/14/2017 | | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 4/24/2017 | <0.002 | | <0.002 | | | | |
| 4/25/2017 | | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 8/8/2017 | <0.002 | <0.002 | <0.002 | <0.002 | | | <0.002 |
| 8/9/2017 | | | | | <0.002 | <0.002 | |
| 3/27/2018 | <0.002 | | <0.002 | | | | |
| 3/28/2018 | | 0.0049 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 6/13/2018 | <0.002 | <0.002 | | | | <0.002 | <0.002 |
| 6/14/2018 | | | <0.002 | <0.002 | <0.002 | | |
| 9/24/2018 | | | <0.002 | | | | |
| 9/27/2018 | <0.002 | | | | | | |
| 9/28/2018 | | <0.002 | | | | | |
| 10/2/2018 | | | | | | | <0.002 |
| 10/3/2018 | | | | <0.002 | <0.002 | <0.002 | |
| 2/25/2019 | 0.0016 (J) | | <0.002 | | | | |
| 2/26/2019 | | 0.0016 (J) | | <0.002 | 0.0021 (J) | <0.002 | 0.0023 (J) |
| 4/1/2019 | <0.002 | | <0.002 | | | | |
| 4/2/2019 | | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 9/16/2019 | 0.0016 (J) | | | | | <0.002 | <0.002 |
| 9/17/2019 | | <0.002 | 0.0017 (J) | | <0.002 | | |
| 9/18/2019 | | | | <0.002 | | | |
| 2/3/2020 | <0.002 | | <0.002 | | | | |
| 2/4/2020 | | | | <0.002 | <0.002 | <0.002 | <0.002 |
| 2/5/2020 | | <0.002 | | | | | |
| 3/16/2020 | <0.002 | | <0.002 | | | | |
| 3/17/2020 | | <0.002 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 9/21/2020 | | | <0.002 | <0.002 | <0.002 | | |
| 9/22/2020 | <0.002 | <0.002 | | | | <0.002 | <0.002 |
| 2/2/2021 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | | |
| 2/3/2021 | | | | | | <0.002 | <0.002 |
| 3/10/2021 | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | |
| 3/11/2021 | <0.002 | | | | | | <0.002 |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|--------|--------|------------|------------|---------|------------|
| 5/18/2016 | <0.002 | | | <0.002 | | | |
| 5/19/2016 | | <0.002 | <0.002 | | <0.002 | <0.002 | <0.002 |
| 7/19/2016 | <0.002 | | | | | | |
| 7/20/2016 | | <0.002 | <0.002 | 0.0012 (J) | <0.002 | <0.002 | <0.002 |
| 9/13/2016 | <0.002 | | | | | | |
| 9/14/2016 | | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| 9/15/2016 | | <0.002 | | | | | |
| 11/10/2016 | <0.002 | | | | | | <0.002 |
| 11/11/2016 | | | | 0.0015 (J) | <0.002 | <0.002 | |
| 11/14/2016 | | <0.002 | | | | | |
| 1/18/2017 | <0.002 | | | | | | |
| 1/27/2017 | | | | | <0.002 | <0.002 | <0.002 |
| 2/6/2017 | | <0.002 | | 0.0011 (J) | | | |
| 2/9/2017 | | | <0.002 | | | | |
| 3/14/2017 | <0.002 | | | | | | |
| 3/15/2017 | | <0.002 | <0.002 | 0.0015 (J) | <0.002 | <0.002 | <0.002 |
| 4/11/2017 | | | <0.002 | | | | |
| 4/25/2017 | <0.002 | | | | | | |
| 4/26/2017 | | <0.002 | <0.002 | 0.0013 (J) | 0.0011 (J) | <0.002 | <0.002 |
| 8/8/2017 | <0.002 | | | | | | |
| 8/9/2017 | | | | | | | <0.002 |
| 8/10/2017 | | <0.002 | <0.002 | 0.0016 (J) | <0.002 | <0.002 | |
| 3/28/2018 | <0.002 | | | | | | |
| 3/29/2018 | | <0.002 | <0.002 | | 0.0012 (J) | <0.002 | <0.002 |
| 3/30/2018 | | | | 0.0027 | | | |
| 6/14/2018 | <0.002 | <0.002 | <0.002 | 0.0023 (J) | <0.002 | <0.002 | <0.002 |
| 10/3/2018 | <0.002 | | | | | | |
| 10/4/2018 | | <0.002 | <0.002 | 0.0031 | <0.002 | <0.002 | <0.002 |
| 2/26/2019 | <0.002 | | | | | | |
| 2/27/2019 | | <0.002 | | 0.0031 | 0.0021 (J) | <0.002 | 0.0018 (J) |
| 2/28/2019 | | | 0.0025 | | | | |
| 4/2/2019 | <0.002 | | | | | | |
| 4/3/2019 | | <0.002 | <0.002 | | <0.002 | <0.002 | <0.002 |
| 4/4/2019 | | | | 0.0021 (J) | | | |
| 9/18/2019 | <0.002 | | | | | | <0.002 |
| 9/19/2019 | | <0.002 | <0.002 | 0.0022 | <0.002 | <0.002 | |
| 2/5/2020 | <0.002 | | <0.002 | 0.0022 | <0.002 | <0.002 | <0.002 |
| 2/7/2020 | | <0.002 | | | | | |
| 3/17/2020 | <0.002 | | | | | | |
| 3/18/2020 | | | | <0.002 | <0.002 | <0.002 | |
| 3/19/2020 | | <0.002 | <0.002 | | | | <0.002 |
| 9/22/2020 | <0.002 | <0.002 | | | | | |
| 9/23/2020 | | | <0.002 | 0.0018 (J) | | <0.002 | |
| 9/24/2020 | | | | | <0.002 | | <0.002 |
| 2/2/2021 | <0.002 | | | | | | |
| 2/3/2021 | | <0.002 | | | <0.002 | <0.002 | |
| 2/4/2021 | | | <0.002 | 0.0018 (J) | | | <0.002 |
| 3/10/2021 | <0.002 | | | | | | |
| 3/11/2021 | | <0.002 | | 0.0023 | | | 0.0019 (J) |
| 3/12/2021 | | | <0.002 | | 0.0017 (J) | <0.002 | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 |
|------------|------------|------------|---------|---------|---------|
| 5/18/2016 | | <0.002 | <0.002 | <0.002 | |
| 7/19/2016 | | <0.002 | <0.002 | | |
| 7/20/2016 | | | | <0.002 | |
| 9/14/2016 | | <0.002 | <0.002 | <0.002 | |
| 11/10/2016 | | <0.002 | <0.002 | <0.002 | |
| 11/11/2016 | | | | | <0.002 |
| 1/20/2017 | | | | <0.002 | |
| 1/24/2017 | | <0.002 | <0.002 | | |
| 2/6/2017 | | | | | <0.002 |
| 2/8/2017 | <0.002 | | | | |
| 2/23/2017 | <0.002 | | | | |
| 3/14/2017 | | <0.002 | | <0.002 | |
| 3/15/2017 | | | <0.002 | | <0.002 |
| 3/17/2017 | <0.002 | | | | |
| 4/11/2017 | <0.002 | | | | <0.002 |
| 4/25/2017 | | <0.002 | <0.002 | <0.002 | |
| 4/26/2017 | <0.002 | | | | <0.002 |
| 5/17/2017 | <0.002 | | | | |
| 6/7/2017 | <0.002 | | | | <0.002 |
| 7/11/2017 | <0.002 | | | | <0.002 |
| 8/9/2017 | | <0.002 | <0.002 | <0.002 | |
| 8/10/2017 | | | | | <0.002 |
| 3/29/2018 | <0.002 | | <0.002 | | <0.002 |
| 3/30/2018 | | <0.002 | | <0.002 | |
| 6/14/2018 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| 10/3/2018 | | <0.002 | | | |
| 10/4/2018 | <0.002 | | <0.002 | <0.002 | <0.002 |
| 2/26/2019 | | | | <0.002 | |
| 2/27/2019 | <0.002 | 0.0015 (J) | <0.002 | | |
| 2/28/2019 | | | | | <0.002 |
| 4/2/2019 | | | | | <0.002 |
| 4/3/2019 | <0.002 | | | | |
| 4/4/2019 | | <0.002 | <0.002 | <0.002 | |
| 9/18/2019 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| 2/5/2020 | 0.0017 (J) | | | | |
| 2/7/2020 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 3/18/2020 | | <0.002 | <0.002 | <0.002 | |
| 3/19/2020 | <0.002 | | | | |
| 5/4/2020 | | | | | <0.002 |
| 9/23/2020 | | <0.002 | <0.002 | <0.002 | <0.002 |
| 9/24/2020 | <0.002 | | | | |
| 2/3/2021 | | | | | <0.002 |
| 2/4/2021 | <0.002 | <0.002 | <0.002 | <0.002 | |
| 3/11/2021 | <0.002 | | <0.002 | <0.002 | <0.002 |
| 3/12/2021 | | <0.002 | | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <0.0025 | <0.0025 | <0.0025 | | | | |
| 5/18/2016 | | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| 7/19/2016 | 0.0014 (J) | 0.0019 (J) | 0.00086 (J) | | | 0.0014 (J) | <0.0025 |
| 7/20/2016 | | | | <0.0025 | <0.0025 | | |
| 9/13/2016 | 0.0015 (J) | 0.0032 | 0.00095 (J) | <0.0025 | <0.0025 | | <0.0025 |
| 9/14/2016 | | | | | | 0.013 | |
| 11/9/2016 | 0.0012 (J) | 0.0039 | 0.0011 (J) | | | | <0.0025 |
| 11/10/2016 | | | | <0.0025 | <0.0025 | | |
| 1/17/2017 | 0.001 (J) | | <0.0025 | | | | |
| 1/18/2017 | | | | <0.0025 | <0.0025 | | <0.0025 |
| 1/19/2017 | | 0.0032 | | | | 0.064 (O) | |
| 3/13/2017 | 0.0011 (J) | | 0.00087 (J) | | | | |
| 3/14/2017 | | 0.0045 | | <0.0025 | <0.0025 | 0.0066 | 0.0018 (J) |
| 4/24/2017 | 0.001 (J) | | 0.0014 (J) | | | | |
| 4/25/2017 | | 0.002 (J) | | <0.0025 | <0.0025 | 0.0026 | <0.0025 |
| 8/8/2017 | 0.0011 (J) | 0.0031 | 0.0012 (J) | <0.0025 | | | <0.0025 |
| 8/9/2017 | | | | | <0.0025 | 0.0025 | |
| 3/27/2018 | 0.00091 (J) | | 0.0012 (J) | | | | |
| 3/28/2018 | | 0.0013 (J) | | <0.0025 | <0.0025 | 0.0015 (J) | <0.0025 |
| 6/13/2018 | 0.00094 (J) | 0.0021 (J) | | | | 0.0011 (J) | <0.0025 |
| 6/14/2018 | | | 0.00085 (J) | <0.0025 | <0.0025 | | |
| 9/24/2018 | | | 0.00085 (J) | | | | |
| 9/27/2018 | 0.00085 (J) | | | | | | |
| 9/28/2018 | | 0.0024 (J) | | | | | |
| 10/2/2018 | | | | | | | <0.0025 |
| 10/3/2018 | | | | <0.0025 | <0.0025 | 0.0013 (J) | |
| 2/25/2019 | 0.00085 (J) | | 0.00083 (J) | | | | |
| 2/26/2019 | | 0.00026 (J) | | <0.0025 | 0.00029 (J) | 0.0006 (J) | 0.00031 (J) |
| 4/1/2019 | 0.00079 (J) | | 0.00082 (J) | | | | |
| 4/2/2019 | | <0.0025 | | <0.0025 | <0.0025 | 0.00046 (J) | <0.0025 |
| 9/16/2019 | 0.00082 | | | | | 0.0035 | 9.1E-05 (J) |
| 9/17/2019 | | 0.0012 | 0.00063 | | <0.0025 | | |
| 9/18/2019 | | | | <0.0025 | | | |
| 2/3/2020 | 0.00062 | | 0.00068 | | | | |
| 2/4/2020 | | | | <0.0025 | <0.0025 | 0.00082 | <0.0025 |
| 2/5/2020 | | 0.0027 | | | | | |
| 3/16/2020 | 0.00092 (J) | | 0.00066 (J) | | | | |
| 3/17/2020 | | 0.0017 (J) | | <0.0025 | <0.0025 | 0.00066 (J) | 0.00014 (J) |
| 9/21/2020 | | | 0.00054 (J) | <0.0025 | <0.0025 | | |
| 9/22/2020 | 0.00072 (J) | 0.00033 (J) | | | | 0.0065 | <0.0025 |
| 2/2/2021 | 0.00082 (J) | 0.0018 (J) | 0.00069 (J) | <0.0025 | <0.0025 | | |
| 2/3/2021 | | | | | | 0.0015 (J) | <0.0025 |
| 3/10/2021 | | 0.0015 (J) | 0.00073 (J) | <0.0025 | <0.0025 | 0.0011 (J) | |
| 3/11/2021 | 0.00081 (J) | | | | | | <0.0025 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/18/2016 | <0.0025 | | | 0.00201 (J) | | | |
| 5/19/2016 | | <0.0025 | <0.0025 | | <0.0025 | <0.0025 | <0.0025 |
| 7/19/2016 | <0.0025 | | | | | | |
| 7/20/2016 | | <0.0025 | <0.0025 | 0.00066 (J) | 0.0025 | 0.0013 (J) | <0.0025 |
| 9/13/2016 | <0.0025 | | | | | | |
| 9/14/2016 | | | <0.0025 | 0.00095 (J) | <0.0025 | 0.00098 (J) | <0.0025 |
| 9/15/2016 | | <0.0025 | | | | | |
| 11/10/2016 | 0.00055 (J) | | | | | | <0.0025 |
| 11/11/2016 | | | | 0.001 (J) | 0.00052 (J) | 0.0017 (J) | |
| 11/14/2016 | | <0.0025 | | | | | |
| 1/18/2017 | 0.00097 (J) | | | | | | |
| 1/27/2017 | | | | | 0.00049 (J) | 0.0022 (J) | <0.0025 |
| 2/6/2017 | | <0.0025 | | 0.00072 (J) | | | |
| 2/9/2017 | | | 0.00073 (J) | | | | |
| 3/14/2017 | <0.0025 | | | | | | |
| 3/15/2017 | | <0.0025 | <0.0025 | 0.00062 (J) | 0.00064 (J) | 0.0016 (J) | <0.0025 |
| 4/11/2017 | | | <0.0025 | | | | |
| 4/25/2017 | <0.0025 | | | | | | |
| 4/26/2017 | | <0.0025 | <0.0025 | 0.0014 (J) | 0.001 (J) | 0.00026 (J) | <0.0025 |
| 8/8/2017 | <0.0025 | | | | | | |
| 8/9/2017 | | | | | | | 0.0004 (J) |
| 8/10/2017 | | <0.0025 | <0.0025 | <0.0025 | 0.0011 (J) | 0.00049 (J) | |
| 3/28/2018 | <0.0025 | | | | | | |
| 3/29/2018 | | 0.00066 (J) | <0.0025 | | <0.0025 | 0.0008 (J) | 0.0008 (J) |
| 3/30/2018 | | | | 0.0035 | | | |
| 6/14/2018 | <0.0025 | 0.0011 (J) | <0.0025 | 0.0012 (J) | <0.0025 | 0.00067 (J) | 0.00054 (J) |
| 10/3/2018 | <0.0025 | | | | | | |
| 10/4/2018 | | <0.0025 | <0.0025 | 0.00086 (J) | <0.0025 | 0.00079 (J) | <0.0025 |
| 2/26/2019 | 0.00017 (J) | | | | | | |
| 2/27/2019 | | 0.0019 (J) | | 0.0005 (J) | 0.0022 (J) | 0.0006 (J) | 0.00013 (J) |
| 2/28/2019 | | | <0.0025 | | | | |
| 4/2/2019 | <0.0025 | | | | | | |
| 4/3/2019 | | 0.0037 | <0.0025 | | 0.00081 (J) | 0.00043 (J) | <0.0025 |
| 4/4/2019 | | | | 0.0017 (J) | | | |
| 9/18/2019 | 0.0002 (J) | | | | | | <0.0025 |
| 9/19/2019 | | 0.0028 | <0.0025 | 0.0023 | <0.0025 | 0.00028 (J) | |
| 2/5/2020 | 0.00021 (J) | | <0.0025 | 0.0013 | 0.00026 (J) | 0.00058 | <0.0025 |
| 2/7/2020 | | 0.0011 | | | | | |
| 3/17/2020 | 0.00065 (J) | | | | | | |
| 3/18/2020 | | | | 0.0012 (J) | 0.00069 (J) | 0.00071 (J) | |
| 3/19/2020 | | 0.00092 (J) | <0.0025 | | | | <0.0025 |
| 9/22/2020 | 0.00015 (J) | 0.00065 (J) | | | | | |
| 9/23/2020 | | | <0.0025 | 0.00062 (J) | | 0.00039 (J) | |
| 9/24/2020 | | | | | <0.0025 | | 0.00032 (J) |
| 2/2/2021 | <0.0025 | | | | | | |
| 2/3/2021 | | 0.00014 (J) | | | 0.00072 (J) | 0.00017 (J) | |
| 2/4/2021 | | | <0.0025 | 0.00059 (J) | | | <0.0025 |
| 3/10/2021 | <0.0025 | | | | | | |
| 3/11/2021 | | 0.00043 (J) | | 0.00058 (J) | | | <0.0025 |
| 3/12/2021 | | | <0.0025 | | 0.0022 (J) | 0.00042 (J) | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 |
|------------|----------|-------------|-------------|-------------|-------------|
| 5/18/2016 | | <0.0025 | 0.0069 | 0.00245 (J) | |
| 7/19/2016 | | <0.0025 | 0.012 | | |
| 7/20/2016 | | | | 0.0018 (J) | |
| 9/14/2016 | | <0.0025 | 0.013 | 0.0014 (J) | |
| 11/10/2016 | | <0.0025 | 0.016 | 0.0016 (J) | |
| 11/11/2016 | | | | | <0.0025 |
| 1/20/2017 | | | | 0.0014 (J) | |
| 1/24/2017 | | <0.0025 | 0.015 | | |
| 2/6/2017 | | | | | 0.00058 (J) |
| 2/8/2017 | 0.0051 | | | | |
| 2/23/2017 | 0.014 | | | | |
| 3/14/2017 | | <0.0025 | | 0.0023 (J) | |
| 3/15/2017 | | | 0.014 | | 0.00045 (J) |
| 3/17/2017 | 0.013 | | | | |
| 4/11/2017 | 0.016 | | | | <0.0025 |
| 4/25/2017 | | <0.0025 | 0.014 | 0.0023 (J) | |
| 4/26/2017 | 0.01 | | | | <0.0025 |
| 5/17/2017 | 0.011 | | | | |
| 6/7/2017 | 0.01 | | | | <0.0025 |
| 7/11/2017 | 0.0085 | | | | <0.0025 |
| 8/9/2017 | | <0.0025 | 0.016 | 0.0011 (J) | |
| 8/10/2017 | | | | | 0.00049 (J) |
| 3/29/2018 | 0.015 | | 0.0092 | | <0.0025 |
| 3/30/2018 | | <0.0025 | | 0.0016 (J) | |
| 6/14/2018 | 0.011 | <0.0025 | 0.0035 | 0.00055 (J) | <0.0025 |
| 10/3/2018 | | <0.0025 | | | |
| 10/4/2018 | 0.0055 | | 0.0078 | 0.00041 (J) | <0.0025 |
| 2/26/2019 | | | | 0.00086 (J) | |
| 2/27/2019 | 0.0049 | <0.0025 | 0.00084 (J) | | |
| 2/28/2019 | | | | | 0.00019 (J) |
| 4/2/2019 | | | | | <0.0025 |
| 4/3/2019 | 0.0056 | | | | |
| 4/4/2019 | | <0.0025 | 0.00077 (J) | <0.0025 | |
| 9/18/2019 | 0.005 | <0.0025 | 0.00011 (J) | 0.00018 (J) | 0.00045 (J) |
| 2/5/2020 | 0.0044 | | | | |
| 2/7/2020 | | <0.0025 | 0.00016 (J) | 0.00077 | 0.00024 (J) |
| 3/18/2020 | | <0.0025 | 0.00016 (J) | 0.00052 (J) | |
| 3/19/2020 | 0.0039 | | | | |
| 5/4/2020 | | | | | 0.00018 (J) |
| 9/23/2020 | | <0.0025 | <0.0025 | 0.0009 (J) | 0.00024 (J) |
| 9/24/2020 | 0.0035 | | | | |
| 2/3/2021 | | | | | 0.00025 (J) |
| 2/4/2021 | 0.0041 | 0.00015 (J) | 0.00026 (J) | 0.00042 (J) | |
| 3/11/2021 | 0.0037 | | 0.00013 (J) | 0.00035 (J) | 0.00022 (J) |
| 3/12/2021 | | <0.0025 | | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | 0.0525 (U) | 0.184 (U) | 0.13 (U) | | | | |
| 5/18/2016 | | | | 0.025 (U) | 1.04 | 0.325 (U) | 8 |
| 7/19/2016 | 7.25 (O) | 0.27 (U) | 0.121 (U) | | | 0.433 (U) | 7.69 |
| 7/20/2016 | | | | 0.398 (U) | 0.812 | | |
| 9/13/2016 | 0.592 (U) | 0.194 (U) | 0.372 (U) | 0.215 (U) | 0.958 | | 6.98 |
| 11/9/2016 | 0.221 (U) | 0.219 (U) | 0.217 (U) | | | | 8.78 |
| 11/10/2016 | | | | 0.421 | 1.13 | | |
| 1/17/2017 | 0.295 (U) | | 0.595 | | | | |
| 1/18/2017 | | | | 0.434 (U) | 1.76 | | 10.4 |
| 1/19/2017 | | 0.0745 (U) | | | | 0.216 (U) | |
| 3/13/2017 | -0.13 (U) | | -0.147 (U) | | | | |
| 3/14/2017 | | 0.194 (U) | | 0.167 (U) | 0.788 | 0.119 (U) | 0.589 (O) |
| 4/24/2017 | 0.36 (U) | | 0.367 | | | | |
| 4/25/2017 | | 0.109 (U) | | 0.224 (U) | 1.13 | 0.105 (U) | 8.22 |
| 8/8/2017 | 0.382 | 0.0842 (U) | 0.402 | 0.127 (U) | | | 7.21 |
| 8/9/2017 | | | | | 1.31 | 0.385 (U) | |
| 3/27/2018 | 0.475 | | 0.453 | | | | |
| 3/28/2018 | | 0.424 | | 0.15 (U) | 1.32 | 0.492 | 7.52 |
| 6/13/2018 | -0.0181 (U) | 0.401 | | | | 0.275 (U) | 8.77 |
| 6/14/2018 | | | 0.402 | 0.258 (U) | 0.857 | | |
| 9/24/2018 | | | 0.318 | | | | |
| 9/27/2018 | 0.342 | | | | | | |
| 9/28/2018 | | 0.381 | | | | | |
| 10/2/2018 | | | | | | | 8.72 |
| 10/3/2018 | | | | 0.178 (U) | 0.943 | 0.72 | |
| 2/25/2019 | 0.394 | | 0.44 | | | | |
| 2/26/2019 | | 0.307 (U) | | 0.179 (U) | 0.65 | 0.113 (U) | 8.93 |
| 4/1/2019 | 0.169 (U) | | -0.00216 (U) | | | | |
| 4/2/2019 | | 0.0436 (U) | | 0.361 | 0.602 | 0.255 (U) | 7.8 |
| 9/16/2019 | 0.31 (U) | | | | | 0.318 (U) | 8.55 |
| 9/17/2019 | | 0.263 (U) | 0.165 (U) | | 0.788 | | |
| 9/18/2019 | | | | 0.189 (U) | | | |
| 2/3/2020 | 0.283 (U) | | 0.0879 (U) | | | | |
| 2/4/2020 | | | | -0.107 (U) | 1.49 | 0.198 (U) | 8.3 |
| 2/5/2020 | | 0.327 (U) | | | | | |
| 3/16/2020 | 0.394 (U) | | 0.289 (U) | | | | |
| 3/17/2020 | | 0.6 (U) | | -0.139 (U) | 0.964 | 0.207 (U) | 8.88 |
| 9/21/2020 | | | 0.418 (U) | 0.0688 (U) | 1.07 | | |
| 9/22/2020 | 0.729 | 0.557 (U) | | | | 0.954 | 7.65 |
| 2/2/2021 | 0.243 (U) | 0.354 (U) | 0.202 (U) | 0.182 (U) | 1.05 | | |
| 2/3/2021 | | | | | | -0.314 (U) | 9.99 |
| 3/10/2021 | | 0.218 (U) | 0.378 (U) | -0.177 (U) | 1.47 | 0.144 (U) | |
| 3/11/2021 | 0.046 (U) | | | | | | 9.2 |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|-----------|------------|------------|------------|-------------|-----------|
| 5/18/2016 | 0.268 (U) | | | 0.182 (U) | | | |
| 5/19/2016 | | 0.711 (U) | 0.209 (U) | | 0.431 (U) | 0.0698 (U) | 0.219 (U) |
| 7/19/2016 | 0.369 (U) | | | | | | |
| 7/20/2016 | | 1.14 | -0.084 (U) | -0.135 (U) | -0.263 (U) | -0.0646 (U) | 0.404 (U) |
| 9/13/2016 | 0.527 (U) | | | | | | |
| 9/14/2016 | | | 0.42 (U) | 0.311 (U) | 0.13 (U) | 0.199 (U) | 0.692 |
| 9/15/2016 | | 1.26 | | | | | |
| 11/10/2016 | 0.871 | | | | | | 1 |
| 11/11/2016 | | | | 0.542 | 0.0257 (U) | 0.467 | |
| 11/14/2016 | | 0.749 | | | | | |
| 1/18/2017 | 0.213 (U) | | | | | | |
| 1/27/2017 | | | | | 0.898 | 0.836 | 0.668 |
| 2/6/2017 | | 1.05 | | 0.104 (U) | | | |
| 2/9/2017 | | | 0.393 | | | | |
| 3/14/2017 | 0.0192 (U) | | | | | | |
| 3/15/2017 | | 1.32 | 0.271 (U) | 0.523 | 0.121 (U) | 0.254 (U) | 0.847 |
| 4/11/2017 | | | 0.488 (U) | | | | |
| 4/25/2017 | 0.0872 (U) | | | | | | |
| 4/26/2017 | | 1.07 | 0.14 (U) | 0.069 (U) | 0.0309 (U) | 0.267 (U) | 0.408 (U) |
| 8/8/2017 | 0.219 (U) | | | | | | |
| 8/9/2017 | | | | | | | 0.816 |
| 8/10/2017 | | 1.88 | 0.379 | 0.189 (U) | 0.326 (U) | 0.912 | |
| 3/28/2018 | 0.315 (U) | | | | | | |
| 3/29/2018 | | 2.31 | 0.278 (U) | | 0.461 | 0.419 | 0.51 |
| 3/30/2018 | | | | 0.575 | | | |
| 6/14/2018 | 0.41 | 1.86 | 0.157 (U) | 0.523 | 0.275 (U) | -0.263 (U) | 0.463 |
| 10/3/2018 | 0.65 | | | | | | |
| 10/4/2018 | | 2.44 | 0.48 | 0.84 | 1.18 | 1.29 | 0.99 |
| 2/26/2019 | 0.395 | | | | | | |
| 2/27/2019 | | 2.42 | | 0.236 (U) | 0.374 | 0.415 | 1.08 |
| 2/28/2019 | | | 0.271 (U) | | | | |
| 4/2/2019 | 0.182 (U) | | | | | | |
| 4/3/2019 | | 1.55 | 0.0621 (U) | | 0.187 (U) | 0.264 (U) | 0.446 |
| 4/4/2019 | | | | 0.233 (U) | | | |
| 9/18/2019 | 0.299 (U) | | | | | | 0.392 |
| 9/19/2019 | | 2.06 | 0.537 | 0.124 (U) | 0.338 (U) | 0.329 (U) | |
| 2/5/2020 | -0.0263 (U) | | -0.137 (U) | 0.0961 (U) | 0.163 (U) | 0.225 (U) | 0.609 |
| 2/7/2020 | | 1.66 | | | | | |
| 3/17/2020 | 0.258 (U) | | | | | | |
| 3/18/2020 | | | | 0.461 (U) | 0.866 | -0.0262 (U) | |
| 3/19/2020 | | 1.21 | 0.23 (U) | | | | 0.47 |
| 9/22/2020 | 0.0523 (U) | 1.75 | | | | | |
| 9/23/2020 | | | 0.0587 (U) | 0.442 (U) | | 0.785 | |
| 9/24/2020 | | | | | 1.2 | | 1.02 |
| 2/2/2021 | 0.167 (U) | | | | | | |
| 2/3/2021 | | 2 | | | 0.718 | 0.322 (U) | |
| 2/4/2021 | | | 0.353 (U) | 0.0332 (U) | | | 0.139 (U) |
| 3/10/2021 | 0.224 (U) | | | | | | |
| 3/11/2021 | | 2.38 | | 0.42 (U) | | | 0.473 |
| 3/12/2021 | | | 0.831 | | 0.0729 (U) | 0.633 | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 |
|------------|-----------|------------|-----------|-------------|------------|
| 5/18/2016 | | 0.569 | 1.03 | 0.116 (U) | |
| 7/19/2016 | | 0.29 (U) | 2.39 | | |
| 7/20/2016 | | | | 0.247 (U) | |
| 9/14/2016 | | 0.412 (U) | 3.05 | 0.594 | |
| 11/10/2016 | | 0.709 | 2.87 | 0.431 | |
| 11/11/2016 | | | | | -0.11 (U) |
| 1/20/2017 | | | | 1.35 | |
| 1/24/2017 | | 0.779 | 2.68 | | |
| 2/6/2017 | | | | | 0.471 |
| 2/8/2017 | 0.958 | | | | |
| 2/23/2017 | 0.771 | | | | |
| 3/14/2017 | | 0.247 (U) | | -0.107 (U) | |
| 3/15/2017 | | | 1.64 | | 0.255 (U) |
| 3/17/2017 | 1.7 | | | | |
| 4/11/2017 | 0.901 | | | | 0.19 (U) |
| 4/25/2017 | | 0.515 | 0.878 | 0.228 (U) | |
| 4/26/2017 | 0.434 | | | | 0.22 (U) |
| 5/17/2017 | 0.632 | | | | |
| 6/7/2017 | 1.06 | | | | 0.126 (U) |
| 7/11/2017 | 0.716 | | | | 0.511 |
| 8/9/2017 | | 1.7 | 2.5 | -0.0246 (U) | |
| 8/10/2017 | | | | | 0.882 |
| 3/29/2018 | 0.58 | | 1.6 | | 0.252 (U) |
| 3/30/2018 | | 0.0985 (U) | | 0.135 (U) | |
| 6/14/2018 | 0.55 | 0.171 (U) | 1.09 | -0.373 (U) | 0.0458 (U) |
| 10/3/2018 | | 0.766 | | | |
| 10/4/2018 | 0.563 | | 1.99 | 0.775 | 0.381 |
| 2/26/2019 | | | | 0.431 | |
| 2/27/2019 | 0.538 | 0.363 (U) | 0.721 | | |
| 2/28/2019 | | | | | 0.254 (U) |
| 4/2/2019 | | | | | 0.209 (U) |
| 4/3/2019 | 0.497 | | | | |
| 4/4/2019 | | 0.418 | 0.632 | 0.386 | |
| 9/18/2019 | 0.376 (U) | 0.484 | 0.278 (U) | 0.167 (U) | 0.403 (U) |
| 2/5/2020 | 0.5 | | | | |
| 2/7/2020 | | 0.125 (U) | 0.797 | 0.244 (U) | 0.2 (U) |
| 3/18/2020 | | 0.303 (U) | 0.437 | 0.0655 (U) | |
| 3/19/2020 | 0.376 (U) | | | | |
| 5/4/2020 | | | | | 0.0697 (U) |
| 9/23/2020 | | 0.448 (U) | 0.276 (U) | 0.643 | 1.18 |
| 9/24/2020 | 0.796 | | | | |
| 2/3/2021 | | | | | 0.684 |
| 2/4/2021 | 0.564 | 0.488 (U) | 0.727 | 0.438 (U) | |
| 3/11/2021 | 0.764 | | 0.942 | 0.247 (U) | 0.286 (U) |
| 3/12/2021 | | 0.591 | | | |

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | 0.0131 (J) | 0.284 (J) | 0.0538 (J) | | | | |
| 5/18/2016 | | | | 0.029 (J) | 0.164 (J) | 0.014 (J) | 0.106 (J) |
| 7/19/2016 | <0.1 | 0.21 | <0.1 | | | <0.1 | 0.11 (J) |
| 7/20/2016 | | | | <0.1 | 0.17 (J) | | |
| 9/13/2016 | <0.1 | 0.15 (J) | <0.1 | <0.1 | 0.15 (J) | | 0.11 (J) |
| 9/14/2016 | | | | | | 0.095 (J) | |
| 11/9/2016 | <0.1 | <0.1 | 0.085 (J) | | | | 0.1 (J) |
| 11/10/2016 | | | | <0.1 | 0.12 (J) | | |
| 1/17/2017 | <0.1 | | <0.1 | | | | |
| 1/18/2017 | | | | <0.1 | 0.15 (J) | | 0.11 (J) |
| 1/19/2017 | | 0.087 (J) | | | | <0.1 | |
| 3/13/2017 | <0.1 | | <0.1 | | | | |
| 3/14/2017 | | <0.1 | | <0.1 | 0.13 (J) | <0.1 | <0.1 |
| 4/24/2017 | <0.1 | | <0.1 | | | | |
| 4/25/2017 | | <0.1 | | <0.1 | 0.12 (J) | <0.1 | <0.1 |
| 8/8/2017 | <0.1 | 0.087 (J) | <0.1 | <0.1 | | | 0.099 (J) |
| 8/9/2017 | | | | | 0.14 (J) | <0.1 | |
| 10/10/2017 | <0.1 | | 0.18 (J) | | | | |
| 10/11/2017 | | 0.09 (J) | | <0.1 | 0.14 (J) | <0.1 | 0.098 (J) |
| 3/27/2018 | <0.1 | | <0.1 | | | | |
| 3/28/2018 | | 0.11 (J) | | <0.1 | 0.12 (J) | <0.1 | 0.088 (J) |
| 6/13/2018 | <0.1 | 0.085 (J) | | | | <0.1 | 0.093 (J) |
| 6/14/2018 | | | <0.1 | <0.1 | 0.12 (J) | | |
| 9/24/2018 | | | <0.1 | | | | |
| 9/27/2018 | <0.1 | | | | | | |
| 9/28/2018 | | 0.082 (J) | | | | | |
| 10/2/2018 | | | | | | | 0.13 (J) |
| 10/3/2018 | | | | <0.1 | 0.13 (J) | <0.1 | |
| 2/25/2019 | <0.1 | | 0.032 (J) | | | | |
| 2/26/2019 | | 0.23 | | <0.1 | 0.14 (J) | <0.1 | 0.074 (J) |
| 4/1/2019 | <0.1 | | 0.061 (J) | | | | |
| 4/2/2019 | | 0.21 | | 0.039 (J) | 0.14 (J) | <0.1 | 0.09 (J) |
| 9/16/2019 | 0.03 (J) | | | | | <0.1 | 0.1 (J) |
| 9/17/2019 | | 0.079 (J) | 0.061 (J) | | 0.14 (J) | | |
| 9/18/2019 | | | | 0.033 (J) | | | |
| 2/3/2020 | 0.032 (J) | | 0.061 (J) | | | | |
| 2/4/2020 | | | | 0.031 (J) | 0.13 | <0.1 | 0.13 |
| 2/5/2020 | | 0.12 | | | | | |
| 3/16/2020 | 0.042 (J) | | 0.052 (J) | | | | |
| 3/17/2020 | | <0.1 | | 0.04 (J) | 0.11 | <0.1 | 0.037 (J) |
| 9/21/2020 | | | 0.037 (J) | <0.1 | 0.091 (J) | | |
| 9/22/2020 | <0.1 | 0.1 | | | | <0.1 | 0.068 (J) |
| 2/2/2021 | 0.028 (J) | 0.071 (J) | 0.065 (J) | 0.035 (J) | 0.15 | | |
| 2/3/2021 | | | | | | <0.1 | 0.088 (J) |
| 3/10/2021 | | 0.046 (J) | 0.045 (J) | <0.1 | 0.12 | <0.1 | |
| 3/11/2021 | <0.1 | | | | | | 0.092 (J) |

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|-----------|--------|-----------|-----------|-----------|---------|
| 5/18/2016 | 0.018 (J) | | | 0.206 | | | |
| 5/19/2016 | | 0.304 | 1.58 | | 0.039 (J) | 0.12 (J) | 0.384 |
| 7/19/2016 | <0.1 | | | | | | |
| 7/20/2016 | | 0.27 | 2 | 0.23 | <0.1 | 0.11 (J) | 0.34 |
| 9/13/2016 | <0.1 | | | | | | |
| 9/14/2016 | | | 1.8 | 0.17 (J) | <0.1 | 0.095 (J) | 0.31 |
| 9/15/2016 | | 0.24 | | | | | |
| 11/10/2016 | <0.1 | | | | | | 0.26 |
| 11/11/2016 | | | | 0.14 (J) | <0.1 | <0.1 | |
| 11/14/2016 | | 0.2 | | | | | |
| 1/18/2017 | <0.1 | | | | | | |
| 1/27/2017 | | | | | <0.1 | <0.1 | 0.28 |
| 2/6/2017 | | 0.27 | | 0.15 (J) | | | |
| 2/9/2017 | | | 1.3 | | | | |
| 3/14/2017 | <0.1 | | | | | | |
| 3/15/2017 | | 0.25 | 1.3 | 0.16 (J) | <0.1 | <0.1 | 0.3 |
| 4/11/2017 | | | 1.4 | | | | |
| 4/25/2017 | <0.1 | | | | | | |
| 4/26/2017 | | 0.31 | 1.5 | 0.17 (J) | <0.1 | <0.1 | 0.33 |
| 8/8/2017 | <0.1 | | | | | | |
| 8/9/2017 | | | | | | | 0.32 |
| 8/10/2017 | | 0.37 | 1.6 | 0.2 | <0.1 | 0.11 (J) | |
| 10/11/2017 | <0.1 | | | | | | |
| 10/12/2017 | | 0.35 | 1.5 | 0.14 (J) | <0.1 | 0.091 (J) | 0.28 |
| 3/28/2018 | <0.1 | | | | | | |
| 3/29/2018 | | 0.36 | 1.4 | | <0.1 | 0.089 (J) | 0.27 |
| 3/30/2018 | | | | 0.13 (J) | | | |
| 6/14/2018 | <0.1 | 0.56 | 1.4 | 0.15 (J) | <0.1 | 0.1 (J) | 0.27 |
| 10/3/2018 | <0.1 | | | | | | |
| 10/4/2018 | | 0.27 | 1.4 | 0.18 (J) | <0.1 | 0.12 (J) | 0.23 |
| 2/26/2019 | <0.1 | | | | | | |
| 2/27/2019 | | 0.054 (J) | | 0.21 | 0.047 (J) | 0.06 (J) | 0.25 |
| 2/28/2019 | | | 1.4 | | | | |
| 4/2/2019 | <0.1 | | | | | | |
| 4/3/2019 | | 0.5 | 1.3 | | 0.048 (J) | 0.084 (J) | 0.24 |
| 4/4/2019 | | | | 0.13 (J) | | | |
| 9/18/2019 | 0.027 (J) | | | | | | 0.22 |
| 9/19/2019 | | 0.42 | 1.3 | 0.13 (J) | 0.037 (J) | 0.093 (J) | |
| 2/5/2020 | 0.026 (J) | | 1.3 | 0.14 | 0.045 (J) | 0.098 (J) | 0.2 |
| 2/7/2020 | | 0.25 | | | | | |
| 3/17/2020 | 0.044 (J) | | | | | | |
| 3/18/2020 | | | | 0.052 (J) | <0.1 | 0.033 (J) | |
| 3/19/2020 | | 0.057 (J) | 1 | | | | 0.15 |
| 9/22/2020 | <0.1 | 0.14 | | | | | |
| 9/23/2020 | | | 0.82 | 0.09 (J) | | 0.064 (J) | |
| 9/24/2020 | | | | | 0.18 | | <0.1 |
| 2/2/2021 | <0.1 | | | | | | |
| 2/3/2021 | | 0.15 | | | 0.027 (J) | 0.082 (J) | |
| 2/4/2021 | | | 0.91 | 0.12 | | | 0.16 |
| 3/10/2021 | <0.1 | | | | | | |
| 3/11/2021 | | 0.16 | | 0.15 | | | 0.18 |
| 3/12/2021 | | | 0.98 | | 0.044 (J) | 0.096 (J) | |

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 | WGWC-20 | WGWC-21 |
|------------|-----------|---------|-----------|-----------|---------|---------|---------|
| 5/18/2016 | | 0.779 | 0.1 (J) | 0.121 (J) | | | |
| 7/19/2016 | | 0.97 | 0.14 (J) | | | | |
| 7/20/2016 | | | | 0.16 (J) | | | |
| 9/14/2016 | | 0.89 | 0.18 (J) | 0.19 (J) | | | |
| 11/10/2016 | | 0.88 | 0.11 (J) | 0.15 (J) | | | |
| 11/11/2016 | | | | | 0.32 | | |
| 1/20/2017 | | | | 0.18 (J) | | | |
| 1/24/2017 | | 0.92 | 0.15 (J) | | | | |
| 2/6/2017 | | | | | 0.45 | | |
| 2/8/2017 | <0.1 | | | | | | |
| 2/23/2017 | <0.1 | | | | | | |
| 3/14/2017 | | 0.77 | | 0.11 (J) | | | |
| 3/15/2017 | | | 0.1 (J) | | 0.37 | | |
| 3/17/2017 | <0.1 | | | | | | |
| 4/11/2017 | <0.1 | | | | 0.37 | | |
| 4/25/2017 | | 0.95 | 0.13 (J) | 0.13 (J) | | | |
| 4/26/2017 | <0.1 | | | | 0.4 | | |
| 5/17/2017 | <0.1 | | | | | | |
| 6/7/2017 | <0.1 | | | | 0.35 | | |
| 7/11/2017 | <0.1 | | | | 0.39 | | |
| 8/9/2017 | | 0.91 | 0.18 (J) | 0.19 (J) | | | |
| 8/10/2017 | | | | | 0.42 | | |
| 10/11/2017 | <0.1 | 0.88 | <0.1 | 0.14 (J) | | | |
| 10/12/2017 | | | | | 0.36 | | |
| 3/29/2018 | <0.1 | | 0.13 (J) | | 0.34 | | |
| 3/30/2018 | | 0.79 | | 0.095 (J) | | | |
| 6/14/2018 | <0.1 | 0.79 | <0.1 | 0.11 (J) | 0.35 | | |
| 10/3/2018 | | 0.79 | | | | | |
| 10/4/2018 | <0.1 | | 0.85 (J) | 0.11 (J) | 0.35 | | |
| 2/26/2019 | | | | 0.068 (J) | | | |
| 2/27/2019 | <0.1 | 0.81 | 0.47 | | | | |
| 2/28/2019 | | | | | 0.28 | | |
| 4/2/2019 | | | | | 0.33 | | |
| 4/3/2019 | 0.048 (J) | | | | | | |
| 4/4/2019 | | 0.78 | 0.08 (J) | 0.087 (J) | | | |
| 9/18/2019 | 0.035 (J) | 0.81 | 0.058 (J) | 0.066 (J) | 0.32 | | |
| 2/5/2020 | 0.04 (J) | | | | | | |
| 2/7/2020 | | 0.79 | 0.072 (J) | 0.079 (J) | 0.35 | | |
| 3/18/2020 | | 0.71 | 0.084 (J) | <0.1 | | | |
| 3/19/2020 | <0.1 | | | | | | |
| 5/4/2020 | | | | | 0.36 | | |
| 9/23/2020 | | 0.63 | 0.049 (J) | 0.05 (J) | 0.25 | | |
| 9/24/2020 | 0.028 (J) | | | | | | |
| 2/3/2021 | | | | | 0.3 | | |
| 2/4/2021 | 0.033 (J) | 0.69 | 0.052 (J) | 0.064 (J) | | | |
| 3/8/2021 | | | | | 1.8 | | |
| 3/9/2021 | | | | | | | 1.7 |
| 3/11/2021 | 0.04 (J) | | 0.061 (J) | 0.05 (J) | 0.31 | | |
| 3/12/2021 | | 0.88 | | | | | |
| 4/7/2021 | | | | | | | 1.6 |
| 4/8/2021 | | | | | 1.7 | | |

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-22 | WGWC-23 | WGWC-24 | WGWC-25 |
|----------|---------|-----------|---------|-----------|
| 3/8/2021 | | | | <0.1 |
| 3/9/2021 | 1.1 | 0.092 (J) | 1 | |
| 4/7/2021 | | 0.093 (J) | 1.1 | |
| 4/8/2021 | 1.4 | | | 0.028 (J) |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <0.001 | <0.001 | <0.001 | | | | |
| 5/18/2016 | | | | <0.001 | <0.001 | <0.001 | <0.001 |
| 7/19/2016 | <0.001 | <0.001 | <0.001 | | | <0.001 | <0.001 |
| 7/20/2016 | | | | <0.001 | <0.001 | | |
| 9/13/2016 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 |
| 9/14/2016 | | | | | | <0.001 | |
| 11/9/2016 | <0.001 | <0.001 | <0.001 | | | | <0.001 |
| 11/10/2016 | | | | <0.001 | <0.001 | | |
| 1/17/2017 | <0.001 | | <0.001 | | | | |
| 1/18/2017 | | | | <0.001 | <0.001 | | <0.001 |
| 1/19/2017 | | <0.001 | | | | <0.001 | |
| 3/13/2017 | <0.001 | | <0.001 | | | | |
| 3/14/2017 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 4/24/2017 | <0.001 | | <0.001 | | | | |
| 4/25/2017 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/8/2017 | <0.001 | <0.001 | <0.001 | <0.001 | | | <0.001 |
| 8/9/2017 | | | | | <0.001 | <0.001 | |
| 3/27/2018 | <0.001 | | <0.001 | | | | |
| 3/28/2018 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/25/2019 | <0.001 | | 0.00019 (J) | | | | |
| 2/26/2019 | | <0.001 | | <0.001 | 0.00046 (J) | 0.00028 (J) | 0.00037 (J) |
| 4/1/2019 | <0.001 | | <0.001 | | | | |
| 4/2/2019 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/16/2019 | <0.001 | | | | | <0.001 | <0.001 |
| 9/17/2019 | | <0.001 | <0.001 | | <0.001 | | |
| 9/18/2019 | | | | <0.001 | | | |
| 2/3/2020 | <0.001 | | 0.00013 (J) | | | | |
| 2/4/2020 | | | | 0.00013 (J) | 0.00019 (J) | 0.00024 (J) | <0.001 |
| 2/5/2020 | | <0.001 | | | | | |
| 3/16/2020 | 0.00021 (J) | | 0.00018 (J) | | | | |
| 3/17/2020 | | <0.001 | | 0.00019 (J) | 0.00016 (J) | <0.001 | 0.00017 (J) |
| 9/21/2020 | | | <0.001 | <0.001 | <0.001 | | |
| 9/22/2020 | <0.001 | <0.001 | | | | <0.001 | <0.001 |
| 2/2/2021 | 0.00015 (J) | <0.001 | 0.00015 (J) | <0.001 | <0.001 | | |
| 2/3/2021 | | | | | | 0.00019 (J) | <0.001 |
| 3/10/2021 | | <0.001 | 0.00019 (J) | <0.001 | <0.001 | <0.001 | |
| 3/11/2021 | <0.001 | | | | | | <0.001 |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|-------------|-------------|-------------|-------------|---------|-------------|
| 5/18/2016 | <0.001 | | | <0.001 | | | |
| 5/19/2016 | | <0.001 | <0.001 | | <0.001 | <0.001 | <0.001 |
| 7/19/2016 | <0.001 | | | | | | |
| 7/20/2016 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/13/2016 | <0.001 | | | | | | |
| 9/14/2016 | | | <0.001 | <0.001 | <0.001 | <0.001 | 0.00055 (J) |
| 9/15/2016 | | <0.001 | | | | | |
| 11/10/2016 | <0.001 | | | | | | 0.00047 (J) |
| 11/11/2016 | | | | <0.001 | <0.001 | <0.001 | |
| 11/14/2016 | | <0.001 | | | | | |
| 1/18/2017 | <0.001 | | | | | | |
| 1/27/2017 | | | | | <0.001 | <0.001 | <0.001 |
| 2/6/2017 | | <0.001 | | <0.001 | | | |
| 2/9/2017 | | | <0.001 | | | | |
| 3/14/2017 | <0.001 | | | | | | |
| 3/15/2017 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 4/11/2017 | | | <0.001 | | | | |
| 4/25/2017 | <0.001 | | | | | | |
| 4/26/2017 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/8/2017 | <0.001 | | | | | | |
| 8/9/2017 | | | | | | | <0.001 |
| 8/10/2017 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 3/28/2018 | <0.001 | | | | | | |
| 3/29/2018 | | <0.001 | <0.001 | | <0.001 | <0.001 | <0.001 |
| 3/30/2018 | | | | <0.001 | | | |
| 2/26/2019 | <0.001 | | | | | | |
| 2/27/2019 | | 0.00017 (J) | | 0.00023 (J) | 0.00058 (J) | <0.001 | 0.00068 (J) |
| 2/28/2019 | | | 0.00014 (J) | | | | |
| 4/2/2019 | <0.001 | | | | | | |
| 4/3/2019 | | <0.001 | <0.001 | | <0.001 | <0.001 | 0.00047 (J) |
| 4/4/2019 | | | | <0.001 | | | |
| 9/18/2019 | <0.001 | | | | | | 0.00045 (J) |
| 9/19/2019 | | <0.001 | <0.001 | 0.00041 (J) | <0.001 | <0.001 | |
| 2/5/2020 | <0.001 | | <0.001 | 0.00016 (J) | <0.001 | <0.001 | 0.00045 (J) |
| 2/7/2020 | | <0.001 | | | | | |
| 3/17/2020 | <0.001 | | | | | | |
| 3/18/2020 | | | | 0.00021 (J) | <0.001 | <0.001 | |
| 3/19/2020 | | 0.00016 (J) | <0.001 | | | | 0.0006 (J) |
| 9/22/2020 | <0.001 | 0.00013 (J) | | | | | |
| 9/23/2020 | | | <0.001 | 0.00013 (J) | | <0.001 | |
| 9/24/2020 | | | | | 0.00037 (J) | | <0.001 |
| 2/2/2021 | <0.001 | | | | | | |
| 2/3/2021 | | 0.00013 (J) | | | <0.001 | <0.001 | |
| 2/4/2021 | | | <0.001 | 0.00019 (J) | | | 0.00038 (J) |
| 3/10/2021 | <0.001 | | | | | | |
| 3/11/2021 | | <0.001 | | 0.00032 (J) | | | 0.00075 (J) |
| 3/12/2021 | | | <0.001 | | 0.00038 (J) | <0.001 | |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 |
|------------|-------------|------------|-------------|-------------|---------|
| 5/18/2016 | | <0.001 | <0.001 | <0.001 | |
| 7/19/2016 | | <0.001 | <0.001 | | |
| 7/20/2016 | | | | <0.001 | |
| 9/14/2016 | | <0.001 | <0.001 | <0.001 | |
| 11/10/2016 | | <0.001 | <0.001 | <0.001 | |
| 11/11/2016 | | | | | <0.001 |
| 1/20/2017 | | | | <0.001 | |
| 1/24/2017 | | <0.001 | <0.001 | | |
| 2/6/2017 | | | | | <0.001 |
| 2/8/2017 | <0.001 | | | | |
| 2/23/2017 | <0.001 | | | | |
| 3/14/2017 | | <0.001 | | <0.001 | |
| 3/15/2017 | | | <0.001 | | <0.001 |
| 3/17/2017 | <0.001 | | | | |
| 4/11/2017 | <0.001 | | | | <0.001 |
| 4/25/2017 | | <0.001 | <0.001 | <0.001 | |
| 4/26/2017 | <0.001 | | | | <0.001 |
| 5/17/2017 | <0.001 | | | | |
| 6/7/2017 | <0.001 | | | | <0.001 |
| 7/11/2017 | <0.001 | | | | <0.001 |
| 8/9/2017 | | <0.001 | <0.001 | <0.001 | |
| 8/10/2017 | | | | | <0.001 |
| 3/29/2018 | <0.001 | | <0.001 | | <0.001 |
| 3/30/2018 | | <0.001 | | <0.001 | |
| 2/26/2019 | | | | 0.00033 (J) | |
| 2/27/2019 | <0.001 | <0.001 | 0.00014 (J) | | |
| 2/28/2019 | | | | | <0.001 |
| 4/2/2019 | | | | | <0.001 |
| 4/3/2019 | <0.001 | | | | |
| 4/4/2019 | | <0.001 | <0.001 | <0.001 | |
| 9/18/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/5/2020 | <0.001 | | | | |
| 2/7/2020 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 3/18/2020 | | <0.001 | <0.001 | 0.0002 (J) | |
| 3/19/2020 | 0.00017 (J) | | | | |
| 5/4/2020 | | | | | <0.001 |
| 9/23/2020 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/24/2020 | 0.00018 (J) | | | | |
| 2/3/2021 | | | | | <0.001 |
| 2/4/2021 | 0.00013 (J) | 0.0003 (J) | 0.00013 (J) | <0.001 | |
| 3/11/2021 | 0.00031 (J) | | <0.001 | <0.001 | <0.001 |
| 3/12/2021 | | <0.001 | | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <0.05 (O) | <0.05 (O) | <0.05 (O) | | | | |
| 5/18/2016 | | | | <0.05 (O) | <0.05 (O) | <0.05 (O) | <0.05 (O) |
| 7/19/2016 | <0.005 | <0.005 | 0.005 | | | <0.005 | 0.0043 (J) |
| 7/20/2016 | | | | <0.005 | 0.0041 (J) | | |
| 9/13/2016 | <0.005 | <0.005 | 0.0075 | <0.005 | 0.0042 (J) | | 0.0045 (J) |
| 9/14/2016 | | | | | | <0.005 | |
| 11/9/2016 | 0.0032 (J) | <0.005 | 0.0078 | | | | 0.0036 (J) |
| 11/10/2016 | | | | <0.005 | 0.0048 (J) | | |
| 1/17/2017 | <0.005 | | 0.009 | | | | |
| 1/18/2017 | | | | <0.005 | 0.0033 (J) | | 0.0046 (J) |
| 1/19/2017 | | <0.005 | | | | <0.005 | |
| 3/13/2017 | <0.005 | | 0.0069 | | | | |
| 3/14/2017 | | <0.005 | | <0.005 | 0.0033 (J) | <0.005 | 0.0038 (J) |
| 4/24/2017 | <0.005 | | 0.0049 (J) | | | | |
| 4/25/2017 | | <0.005 | | <0.005 | 0.0037 (J) | <0.005 | <0.005 |
| 8/8/2017 | 0.0032 (J) | <0.005 | 0.0075 | <0.005 | | | 0.0043 (J) |
| 8/9/2017 | | | | | 0.0042 (J) | <0.005 | |
| 3/27/2018 | 0.0045 (J) | | 0.0081 | | | | |
| 3/28/2018 | | 0.0012 (J) | | 0.0013 (J) | 0.0056 | <0.005 | 0.0064 |
| 6/13/2018 | 0.0033 (J) | <0.005 | | | | <0.005 | 0.0041 (J) |
| 6/14/2018 | | | 0.0072 | 0.0012 (J) | 0.0045 (J) | | |
| 9/24/2018 | | | 0.0082 | | | | |
| 9/27/2018 | 0.0042 (J) | | | | | | |
| 9/28/2018 | | 0.0013 (J) | | | | | |
| 10/2/2018 | | | | | | | 0.0038 (J) |
| 10/3/2018 | | | | 0.0012 (J) | 0.005 | <0.005 | |
| 2/25/2019 | 0.0049 (J) | | 0.0072 | | | | |
| 2/26/2019 | | <0.005 | | <0.005 | 0.0069 | <0.005 | 0.0068 |
| 4/1/2019 | 0.0044 (J) | | 0.0055 | | | | |
| 4/2/2019 | | 0.0012 (J) | | <0.005 | 0.0036 (J) | 0.0016 (J) | 0.0052 |
| 9/16/2019 | 0.004 (J) | | | | | 0.028 (O) | 0.032 (O) |
| 9/17/2019 | | <0.005 | 0.0083 | | 0.0049 (J) | | |
| 9/18/2019 | | | | <0.005 | | | |
| 2/3/2020 | <0.005 | | 0.0085 | | | | |
| 2/4/2020 | | | | <0.005 | 0.0055 | <0.005 | 0.0053 |
| 2/5/2020 | | <0.005 | | | | | |
| 3/16/2020 | 0.0053 | | 0.0083 | | | | |
| 3/17/2020 | | <0.005 | | <0.005 | 0.0059 | <0.005 | 0.0055 |
| 9/21/2020 | | | 0.0075 | <0.005 | 0.005 | | |
| 9/22/2020 | 0.0036 (J) | <0.005 | | | | <0.005 | 0.0049 (J) |
| 2/2/2021 | <0.005 | <0.005 | 0.0065 | <0.005 | 0.0039 (J) | | |
| 2/3/2021 | | | | | | <0.005 | 0.0047 (J) |
| 3/10/2021 | | <0.005 | 0.0075 | <0.005 | 0.0049 (J) | <0.005 | |
| 3/11/2021 | 0.0039 (J) | | | | | | 0.005 |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|--------|--------|------------|------------|---------|------------|
| 5/18/2016 | <0.05 (O) | | | 0.032 | | | |
| 5/19/2016 | | 0.0215 | 0.0335 | | <0.005 | <0.005 | <0.005 |
| 7/19/2016 | <0.005 | | | | | | |
| 7/20/2016 | | 0.026 | 0.024 | 0.021 | <0.005 | 0.0057 | <0.005 |
| 9/13/2016 | <0.005 | | | | | | |
| 9/14/2016 | | | 0.039 | 0.02 | <0.005 | 0.0077 | <0.005 |
| 9/15/2016 | | 0.057 | | | | | |
| 11/10/2016 | <0.005 | | | | | | 0.0038 (J) |
| 11/11/2016 | | | | 0.017 | <0.005 | 0.007 | |
| 11/14/2016 | | 0.017 | | | | | |
| 1/18/2017 | <0.005 | | | | | | |
| 1/27/2017 | | | | | <0.005 | 0.0074 | <0.005 |
| 2/6/2017 | | 0.012 | | 0.016 | | | |
| 2/9/2017 | | | 0.04 | | | | |
| 3/14/2017 | <0.005 | | | | | | |
| 3/15/2017 | | 0.014 | 0.035 | 0.014 | <0.005 | 0.0077 | <0.005 |
| 4/11/2017 | | | 0.034 | | | | |
| 4/25/2017 | <0.005 | | | | | | |
| 4/26/2017 | | 0.0091 | 0.029 | 0.011 | <0.005 | 0.0011 | <0.005 |
| 8/8/2017 | <0.005 | | | | | | |
| 8/9/2017 | | | | | | | <0.005 |
| 8/10/2017 | | 0.013 | 0.038 | 0.011 | <0.005 | 0.0064 | |
| 3/28/2018 | 0.0014 (J) | | | | | | |
| 3/29/2018 | | 0.018 | 0.048 | | 0.0018 (J) | 0.01 | 0.0022 (J) |
| 3/30/2018 | | | | 0.016 | | | |
| 6/14/2018 | <0.005 | 0.015 | 0.034 | 0.0084 | 0.0011 (J) | 0.0062 | 0.0018 (J) |
| 10/3/2018 | <0.005 | | | | | | |
| 10/4/2018 | | 0.013 | 0.039 | 0.0085 | 0.0014 (J) | 0.0066 | 0.0025 (J) |
| 2/26/2019 | <0.005 | | | | | | |
| 2/27/2019 | | 0.014 | | 0.0068 | <0.005 | 0.0068 | <0.005 |
| 2/28/2019 | | | 0.037 | | | | |
| 4/2/2019 | <0.005 | | | | | | |
| 4/3/2019 | | 0.015 | 0.035 | | <0.005 | 0.0075 | <0.005 |
| 4/4/2019 | | | | 0.0059 | | | |
| 9/18/2019 | <0.005 | | | | | | <0.005 |
| 9/19/2019 | | 0.014 | 0.036 | 0.0075 | <0.005 | 0.0067 | |
| 2/5/2020 | <0.005 | | 0.034 | 0.0061 | <0.005 | 0.0063 | <0.005 |
| 2/7/2020 | | 0.014 | | | | | |
| 3/17/2020 | <0.005 | | | | | | |
| 3/18/2020 | | | | 0.0071 | <0.005 | 0.0081 | |
| 3/19/2020 | | 0.015 | 0.039 | | | | <0.005 |
| 9/22/2020 | <0.005 | 0.013 | | | | | |
| 9/23/2020 | | | 0.033 | 0.0054 | | 0.007 | |
| 9/24/2020 | | | | | <0.005 | | <0.005 |
| 2/2/2021 | <0.005 | | | | | | |
| 2/3/2021 | | 0.014 | | | <0.005 | 0.0075 | |
| 2/4/2021 | | | 0.035 | 0.0049 (J) | | | <0.005 |
| 3/10/2021 | <0.005 | | | | | | |
| 3/11/2021 | | 0.013 | | 0.0051 | | | 0.0037 (J) |
| 3/12/2021 | | | 0.034 | | <0.005 | 0.0089 | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 | WGWC-20 | WGWC-21 |
|------------|------------|------------|---------|------------|---------|---------|---------|
| 5/18/2016 | | <0.005 | <0.005 | <0.005 | | | |
| 7/19/2016 | | 0.0036 (J) | 0.0091 | | | | |
| 7/20/2016 | | | | 0.0042 (J) | | | |
| 9/14/2016 | | <0.005 | 0.012 | 0.0058 | | | |
| 11/10/2016 | | 0.0064 | 0.013 | 0.0066 | | | |
| 11/11/2016 | | | | | 0.045 | | |
| 1/20/2017 | | | | 0.0044 (J) | | | |
| 1/24/2017 | | 0.0075 | 0.011 | | | | |
| 2/6/2017 | | | | | 0.05 | | |
| 2/8/2017 | 0.0039 (J) | | | | | | |
| 2/23/2017 | <0.005 | | | | | | |
| 3/14/2017 | | 0.0057 | | 0.0048 (J) | | | |
| 3/15/2017 | | | 0.01 | | 0.052 | | |
| 3/17/2017 | <0.005 | | | | | | |
| 4/11/2017 | <0.005 | | | | 0.048 | | |
| 4/25/2017 | | 0.0059 | 0.0081 | 0.0049 (J) | | | |
| 4/26/2017 | <0.005 | | | | 0.044 | | |
| 5/17/2017 | 0.0033 (J) | | | | | | |
| 6/7/2017 | <0.005 | | | | 0.047 | | |
| 7/11/2017 | <0.005 | | | | 0.045 | | |
| 8/9/2017 | | 0.0068 | 0.013 | 0.0067 | | | |
| 8/10/2017 | | | | | 0.056 | | |
| 3/29/2018 | 0.0025 (J) | | 0.015 | | 0.072 | | |
| 3/30/2018 | | 0.0077 | | 0.0067 | | | |
| 6/14/2018 | 0.0018 (J) | 0.0052 | 0.009 | 0.0046 (J) | 0.048 | | |
| 10/3/2018 | | 0.006 | | | | | |
| 10/4/2018 | 0.0016 (J) | | 0.012 | 0.005 | 0.062 | | |
| 2/26/2019 | | | | 0.0063 | | | |
| 2/27/2019 | <0.005 | 0.0055 | 0.0075 | | | | |
| 2/28/2019 | | | | | 0.045 | | |
| 4/2/2019 | | | | | 0.052 | | |
| 4/3/2019 | 0.0015 (J) | | | | | | |
| 4/4/2019 | | 0.0054 | 0.0077 | 0.0042 (J) | | | |
| 9/18/2019 | <0.005 | 0.0054 | 0.0056 | 0.0047 (J) | 0.052 | | |
| 2/5/2020 | <0.005 | | | | | | |
| 2/7/2020 | | 0.0068 | 0.0053 | 0.0045 (J) | 0.044 | | |
| 3/18/2020 | | 0.0086 | 0.0057 | 0.0054 | | | |
| 3/19/2020 | <0.005 | | | | | | |
| 5/4/2020 | | | | | 0.049 | | |
| 9/23/2020 | | 0.0071 | 0.0059 | 0.0056 | 0.056 | | |
| 9/24/2020 | <0.005 | | | | | | |
| 2/3/2021 | | | | | 0.06 | | |
| 2/4/2021 | <0.005 | 0.0086 | 0.0051 | 0.0047 (J) | | | |
| 3/8/2021 | | | | | 0.11 | | |
| 3/9/2021 | | | | | | | 0.022 |
| 3/11/2021 | 0.0035 (J) | | 0.005 | 0.0049 (J) | 0.051 | | |
| 3/12/2021 | | 0.0096 | | | | | |
| 4/7/2021 | | | | | | | 0.031 |
| 4/8/2021 | | | | | 0.11 | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-22 | WGWC-23 | WGWC-24 | WGWC-25 |
|----------|---------|---------|---------|------------|
| 3/8/2021 | | | | 0.0046 (J) |
| 3/9/2021 | 0.011 | <0.005 | 0.0084 | |
| 4/7/2021 | | <0.005 | 0.0077 | |
| 4/8/2021 | 0.0081 | | | 0.0044 (J) |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 5/18/2016 | | | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 7/19/2016 | <0.0002 | 8.2E-05 (J) | 8.1E-05 (J) | | | 8.5E-05 (J) | 8.4E-05 (J) |
| 7/20/2016 | | | | 7.7E-05 (J) | 8.1E-05 (J) | | |
| 9/13/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | <0.0002 |
| 9/14/2016 | | | | | | <0.0002 | |
| 11/9/2016 | <0.0002 | <0.0002 | <0.0002 | | | | <0.0002 |
| 11/10/2016 | | | | 0.00015 (J) | 0.00016 (J) | | |
| 1/17/2017 | <0.0002 | | <0.0002 | | | | |
| 1/18/2017 | | | | <0.0002 | <0.0002 | | <0.0002 |
| 1/19/2017 | | <0.0002 | | | | <0.0002 | |
| 3/13/2017 | <0.0002 | | <0.0002 | | | | |
| 3/14/2017 | | 7.1E-05 (J) | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 4/24/2017 | <0.0002 | | <0.0002 | | | | |
| 4/25/2017 | | <0.0002 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 8/8/2017 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | | <0.0002 |
| 8/9/2017 | | | | | <0.0002 | <0.0002 | |
| 3/27/2018 | <0.0002 | | <0.0002 | | | | |
| 3/28/2018 | | <0.0002 | | <0.0002 | <0.0002 | 8.9E-05 (J) | <0.0002 |
| 6/13/2018 | <0.0002 | <0.0002 | | | | <0.0002 | <0.0002 |
| 6/14/2018 | | | <0.0002 | <0.0002 | <0.0002 | | |
| 9/24/2018 | | | <0.0002 | | | | |
| 9/27/2018 | <0.0002 | | | | | | |
| 9/28/2018 | | <0.0002 | | | | | |
| 10/2/2018 | | | | | | | <0.0002 |
| 10/3/2018 | | | | <0.0002 | <0.0002 | <0.0002 | |
| 2/25/2019 | <0.0002 | | <0.0002 | | | | |
| 2/26/2019 | | <0.0002 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 2/3/2020 | <0.0002 | | <0.0002 | | | | |
| 2/4/2020 | | | | 0.00016 (J) | 0.00011 (J) | <0.0002 | <0.0002 |
| 2/5/2020 | | <0.0002 | | | | | |
| 3/16/2020 | <0.0002 | | <0.0002 | | | | |
| 3/17/2020 | | <0.0002 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 9/21/2020 | | | <0.0002 | <0.0002 | <0.0002 | | |
| 9/22/2020 | <0.0002 | <0.0002 | | | | <0.0002 | <0.0002 |
| 2/2/2021 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | |
| 2/3/2021 | | | | | | <0.0002 | <0.0002 |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/18/2016 | <0.0002 | | | <0.0002 | | | |
| 5/19/2016 | | <0.0002 | <0.0002 | | <0.0002 | <0.0002 | <0.0002 |
| 7/19/2016 | 7.2E-05 (J) | | | | | | |
| 7/20/2016 | | <0.0002 | <0.0002 | 8.2E-05 (J) | 8.2E-05 (J) | 0.00011 (J) | 8.1E-05 (J) |
| 9/13/2016 | <0.0002 | | | | | | |
| 9/14/2016 | | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 9/15/2016 | | 0.00011 (J) | | | | | |
| 11/10/2016 | 8.7E-05 (J) | | | | | | 8.3E-05 (J) |
| 11/11/2016 | | | | 8.5E-05 (J) | 0.00011 (J) | 7.9E-05 (J) | |
| 11/14/2016 | | <0.0002 | | | | | |
| 1/18/2017 | <0.0002 | | | | | | |
| 1/27/2017 | | | | | <0.0002 | <0.0002 | <0.0002 |
| 2/6/2017 | | 7.8E-05 (J) | | 8.3E-05 (J) | | | |
| 2/9/2017 | | | <0.0002 | | | | |
| 3/14/2017 | <0.0002 | | | | | | |
| 3/15/2017 | | 0.00013 (J) | 0.00013 (J) | 0.00013 (J) | <0.0002 | 0.00018 (J) | <0.0002 |
| 4/11/2017 | | | <0.0002 | | | | |
| 4/25/2017 | <0.0002 | | | | | | |
| 4/26/2017 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 8/8/2017 | <0.0002 | | | | | | |
| 8/9/2017 | | | | | | | <0.0002 |
| 8/10/2017 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 3/28/2018 | <0.0002 | | | | | | |
| 3/29/2018 | | <0.0002 | <0.0002 | | <0.0002 | 0.00011 (J) | <0.0002 |
| 3/30/2018 | | | | <0.0002 | | | |
| 6/14/2018 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 10/3/2018 | <0.0002 | | | | | | |
| 10/4/2018 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 2/26/2019 | <0.0002 | | | | | | |
| 2/27/2019 | | <0.0002 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 2/28/2019 | | | <0.0002 | | | | |
| 2/5/2020 | <0.0002 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 2/7/2020 | | <0.0002 | | | | | |
| 3/17/2020 | <0.0002 | | | | | | |
| 3/18/2020 | | | | <0.0002 | <0.0002 | <0.0002 | |
| 3/19/2020 | | <0.0002 | <0.0002 | | | | <0.0002 |
| 9/22/2020 | <0.0002 | <0.0002 | | | | | |
| 9/23/2020 | | | <0.0002 | <0.0002 | | <0.0002 | |
| 9/24/2020 | | | | | <0.0002 | | <0.0002 |
| 2/2/2021 | <0.0002 | | | | | | |
| 2/3/2021 | | <0.0002 | | | <0.0002 | <0.0002 | |
| 2/4/2021 | | | <0.0002 | <0.0002 | | | <0.0002 |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 |
|------------|-------------|-------------|-------------|-------------|-------------|
| 5/18/2016 | | <0.0002 | <0.0002 | <0.0002 | |
| 7/19/2016 | | 9.3E-05 (J) | <0.0002 | | |
| 7/20/2016 | | | | 7.4E-05 (J) | |
| 9/14/2016 | | <0.0002 | <0.0002 | <0.0002 | |
| 11/10/2016 | | 8.5E-05 (J) | 0.00012 (J) | <0.0002 | |
| 11/11/2016 | | | | | 7.6E-05 (J) |
| 1/20/2017 | | | | <0.0002 | |
| 1/24/2017 | | <0.0002 | 7E-05 (J) | | |
| 2/6/2017 | | | | | 0.00012 (J) |
| 2/8/2017 | <0.0002 | | | | |
| 2/23/2017 | <0.0002 | | | | |
| 3/14/2017 | | 7.1E-05 (J) | | <0.0002 | |
| 3/15/2017 | | | <0.0002 | | <0.0002 |
| 3/17/2017 | 0.00013 (J) | | | | |
| 4/11/2017 | <0.0002 | | | | <0.0002 |
| 4/25/2017 | | <0.0002 | 0.00019 (J) | <0.0002 | |
| 4/26/2017 | <0.0002 | | | | <0.0002 |
| 5/17/2017 | <0.0002 | | | | |
| 6/7/2017 | <0.0002 | | | | <0.0002 |
| 7/11/2017 | <0.0002 | | | | <0.0002 |
| 8/9/2017 | | <0.0002 | <0.0002 | <0.0002 | |
| 8/10/2017 | | | | | <0.0002 |
| 3/29/2018 | <0.0002 | | <0.0002 | | <0.0002 |
| 3/30/2018 | | 8.6E-05 (J) | | <0.0002 | |
| 6/14/2018 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 10/3/2018 | | <0.0002 | | | |
| 10/4/2018 | <0.0002 | | <0.0002 | <0.0002 | <0.0002 |
| 2/26/2019 | | | | <0.0002 | |
| 2/27/2019 | <0.0002 | <0.0002 | <0.0002 | | |
| 2/28/2019 | | | | | <0.0002 |
| 2/5/2020 | <0.0002 | | | | |
| 2/7/2020 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 3/18/2020 | | <0.0002 | <0.0002 | <0.0002 | |
| 3/19/2020 | <0.0002 | | | | |
| 5/4/2020 | | | | | <0.0002 |
| 9/23/2020 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 9/24/2020 | <0.0002 | | | | |
| 2/3/2021 | | | | | <0.0002 |
| 2/4/2021 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <0.015 | 0.00367 (J) | <0.015 | | | | |
| 5/18/2016 | | | | <0.015 | <0.015 | <0.015 | <0.015 |
| 7/19/2016 | <0.015 | 0.002 (J) | <0.015 | | | <0.015 | <0.015 |
| 7/20/2016 | | | | <0.015 | <0.015 | | |
| 9/13/2016 | <0.015 | 0.0014 (J) | <0.015 | <0.015 | <0.015 | | <0.015 |
| 9/14/2016 | | | | | | 0.016 (O) | |
| 11/9/2016 | <0.015 | <0.015 | <0.015 | | | | <0.015 |
| 11/10/2016 | | | | <0.015 | <0.015 | | |
| 1/17/2017 | <0.015 | | <0.015 | | | | |
| 1/18/2017 | | | | <0.015 | <0.015 | | <0.015 |
| 1/19/2017 | | <0.015 | | | | <0.015 | |
| 3/13/2017 | <0.015 | | <0.015 | | | | |
| 3/14/2017 | | 0.0072 (J) | | 0.00087 (J) | <0.015 | <0.015 | <0.015 |
| 4/24/2017 | <0.015 | | <0.015 | | | | |
| 4/25/2017 | | 0.0036 (J) | | 0.00098 (J) | <0.015 | <0.015 | <0.015 |
| 8/8/2017 | 0.0017 (J) | <0.015 | <0.015 | <0.015 | | | <0.015 |
| 8/9/2017 | | | | | <0.015 | <0.015 | |
| 3/27/2018 | <0.015 | | <0.015 | | | | |
| 3/28/2018 | | 0.00089 (J) | | <0.015 | <0.015 | <0.015 | <0.015 |
| 6/13/2018 | <0.015 | <0.015 | | | | <0.015 | <0.015 |
| 6/14/2018 | | | <0.015 | <0.015 | <0.015 | | |
| 9/24/2018 | | | <0.015 | | | | |
| 9/27/2018 | <0.015 | | | | | | |
| 9/28/2018 | | <0.015 | | | | | |
| 10/2/2018 | | | | | | | <0.015 |
| 10/3/2018 | | | | <0.015 | <0.015 | <0.015 | |
| 2/25/2019 | <0.015 | | <0.015 | | | | |
| 2/26/2019 | | 0.0019 (J) | | <0.015 | <0.015 | <0.015 | <0.015 |
| 4/1/2019 | <0.015 | | <0.015 | | | | |
| 4/2/2019 | | <0.015 | | <0.015 | <0.015 | <0.015 | <0.015 |
| 9/16/2019 | <0.015 | | | | | 0.001 (J) | 0.001 (J) |
| 9/17/2019 | | <0.015 | <0.015 | | <0.015 | | |
| 9/18/2019 | | | | <0.015 | | | |
| 2/3/2020 | <0.015 | | <0.015 | | | | |
| 2/4/2020 | | | | <0.015 | <0.015 | <0.015 | <0.015 |
| 2/5/2020 | | <0.015 | | | | | |
| 3/16/2020 | <0.015 | | <0.015 | | | | |
| 3/17/2020 | | <0.015 | | <0.015 | <0.015 | <0.015 | <0.015 |
| 9/21/2020 | | | <0.015 | <0.015 | <0.015 | | |
| 9/22/2020 | <0.015 | 0.00097 (J) | | | | 0.0025 (J) | <0.015 |
| 2/2/2021 | <0.015 | <0.015 | <0.015 | <0.015 | <0.015 | | |
| 2/3/2021 | | | | | | <0.015 | <0.015 |
| 3/10/2021 | | <0.015 | <0.015 | <0.015 | <0.015 | <0.015 | |
| 3/11/2021 | <0.015 | | | | | | <0.015 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|--------|-------------|-------------|------------|-------------|-------------|
| 5/18/2016 | <0.015 | | | <0.015 | | | |
| 5/19/2016 | | <0.015 | 0.00762 (J) | | <0.015 | <0.015 | 0.00491 (J) |
| 7/19/2016 | <0.015 | | | | | | |
| 7/20/2016 | | <0.015 | 0.0084 (J) | <0.015 | <0.015 | 0.00095 (J) | 0.0025 (J) |
| 9/13/2016 | <0.015 | | | | | | |
| 9/14/2016 | | | 0.0071 (J) | 0.00091 (J) | <0.015 | 0.0009 (J) | 0.0028 (J) |
| 9/15/2016 | | <0.015 | | | | | |
| 11/10/2016 | <0.015 | | | | | | 0.0016 (J) |
| 11/11/2016 | | | | <0.015 | <0.015 | <0.015 | |
| 11/14/2016 | | <0.015 | | | | | |
| 1/18/2017 | 0.001 (J) | | | | | | |
| 1/27/2017 | | | | | <0.015 | <0.015 | 0.0023 (J) |
| 2/6/2017 | | <0.015 | | <0.015 | | | |
| 2/9/2017 | | | 0.018 | | | | |
| 3/14/2017 | 0.0014 (J) | | | | | | |
| 3/15/2017 | | <0.015 | 0.0057 (J) | <0.015 | <0.015 | <0.015 | 0.0022 (J) |
| 4/11/2017 | | | 0.0047 (J) | | | | |
| 4/25/2017 | <0.015 | | | | | | |
| 4/26/2017 | | <0.015 | 0.004 (J) | <0.015 | <0.015 | <0.015 | 0.0019 (J) |
| 8/8/2017 | <0.015 | | | | | | |
| 8/9/2017 | | | | | | | 0.0028 (J) |
| 8/10/2017 | | <0.015 | 0.0046 (J) | 0.00093 (J) | 0.0011 (J) | 0.0046 (J) | |
| 3/28/2018 | <0.015 | | | | | | |
| 3/29/2018 | | <0.015 | 0.0048 (J) | | <0.015 | <0.015 | 0.0028 (J) |
| 3/30/2018 | | | | <0.015 | | | |
| 6/14/2018 | <0.015 | <0.015 | 0.0046 (J) | <0.015 | <0.015 | <0.015 | 0.0018 (J) |
| 10/3/2018 | <0.015 | | | | | | |
| 10/4/2018 | | <0.015 | 0.003 (J) | <0.015 | <0.015 | <0.015 | <0.015 |
| 2/26/2019 | <0.015 | | | | | | |
| 2/27/2019 | | <0.015 | | <0.015 | <0.015 | 0.00063 (J) | 0.0019 (J) |
| 2/28/2019 | | | 0.0053 | | | | |
| 4/2/2019 | <0.015 | | | | | | |
| 4/3/2019 | | <0.015 | 0.0026 (J) | | <0.015 | <0.015 | <0.015 |
| 4/4/2019 | | | | <0.015 | | | |
| 9/18/2019 | <0.015 | | | | | | 0.0021 (J) |
| 9/19/2019 | | <0.015 | 0.0048 (J) | <0.015 | <0.015 | 0.00073 (J) | |
| 2/5/2020 | <0.015 | | 0.0044 (J) | <0.015 | <0.015 | <0.015 | 0.0012 (J) |
| 2/7/2020 | | <0.015 | | | | | |
| 3/17/2020 | <0.015 | | | | | | |
| 3/18/2020 | | | | <0.015 | <0.015 | <0.015 | |
| 3/19/2020 | | <0.015 | 0.0042 (J) | | | | 0.0018 (J) |
| 9/22/2020 | <0.015 | <0.015 | | | | | |
| 9/23/2020 | | | 0.0027 (J) | <0.015 | | <0.015 | |
| 9/24/2020 | | | | | 0.0017 (J) | | <0.015 |
| 2/2/2021 | <0.015 | | | | | | |
| 2/3/2021 | | <0.015 | | | <0.015 | <0.015 | |
| 2/4/2021 | | | 0.003 (J) | <0.015 | | | 0.0012 (J) |
| 3/10/2021 | <0.015 | | | | | | |
| 3/11/2021 | | <0.015 | | <0.015 | | | 0.0013 (J) |
| 3/12/2021 | | | 0.003 (J) | | <0.015 | 0.00062 (J) | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 |
|------------|-----------|------------|---------|-------------|------------|
| 5/18/2016 | | 0.0153 | <0.015 | 0.00526 (J) | |
| 7/19/2016 | | 0.0093 (J) | <0.015 | | |
| 7/20/2016 | | | | 0.0066 (J) | |
| 9/14/2016 | | 0.012 (J) | <0.015 | 0.0081 (J) | |
| 11/10/2016 | | 0.0065 (J) | <0.015 | 0.0076 (J) | |
| 11/11/2016 | | | | | <0.015 |
| 1/20/2017 | | | | 0.0094 (J) | |
| 1/24/2017 | | 0.0049 (J) | <0.015 | | |
| 2/6/2017 | | | | | 0.001 (J) |
| 2/8/2017 | <0.015 | | | | |
| 2/23/2017 | <0.015 | | | | |
| 3/14/2017 | | 0.0034 (J) | | 0.0044 (J) | |
| 3/15/2017 | | | <0.015 | | <0.015 |
| 3/17/2017 | <0.015 | | | | |
| 4/11/2017 | <0.015 | | | | <0.015 |
| 4/25/2017 | | 0.004 (J) | <0.015 | 0.0074 (J) | |
| 4/26/2017 | <0.015 | | | | <0.015 |
| 5/17/2017 | <0.015 | | | | |
| 6/7/2017 | 0.001 (J) | | | | 0.0015 (J) |
| 7/11/2017 | <0.015 | | | | <0.015 |
| 8/9/2017 | | 0.0042 (J) | <0.015 | 0.0066 (J) | |
| 8/10/2017 | | | | | 0.0016 (J) |
| 3/29/2018 | <0.015 | | <0.015 | | 0.0012 (J) |
| 3/30/2018 | | 0.0049 (J) | | 0.0024 (J) | |
| 6/14/2018 | <0.015 | 0.0056 (J) | <0.015 | 0.0026 (J) | 0.0014 (J) |
| 10/3/2018 | | 0.0041 (J) | | | |
| 10/4/2018 | <0.015 | | <0.015 | 0.00085 (J) | <0.015 |
| 2/26/2019 | | | | 0.0032 (J) | |
| 2/27/2019 | <0.015 | 0.0061 | <0.015 | | |
| 2/28/2019 | | | | | 0.0013 (J) |
| 4/2/2019 | | | | | <0.015 |
| 4/3/2019 | <0.015 | | | | |
| 4/4/2019 | | 0.0039 (J) | <0.015 | 0.002 (J) | |
| 9/18/2019 | <0.015 | 0.0052 | <0.015 | 0.0026 (J) | 0.0011 (J) |
| 2/5/2020 | <0.015 | | | | |
| 2/7/2020 | | 0.0024 (J) | <0.015 | 0.0025 (J) | 0.0014 (J) |
| 3/18/2020 | | 0.002 (J) | <0.015 | 0.0024 (J) | |
| 3/19/2020 | <0.015 | | | | |
| 5/4/2020 | | | | | 0.0013 (J) |
| 9/23/2020 | | 0.0031 (J) | <0.015 | 0.0027 (J) | 0.0013 (J) |
| 9/24/2020 | <0.015 | | | | |
| 2/3/2021 | | | | | 0.0013 (J) |
| 2/4/2021 | <0.015 | 0.0022 (J) | <0.015 | 0.0025 (J) | |
| 3/11/2021 | <0.015 | | <0.015 | 0.0022 (J) | 0.0012 (J) |
| 3/12/2021 | | 0.0019 (J) | | | |

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | 5.24 | 7.81 | 6.23 | | | | |
| 5/18/2016 | | | | 5.55 | 7.23 | 5.47 | 7.92 |
| 7/18/2016 | 5.434038 | | | | | | |
| 7/19/2016 | | | 6.285413 | | | 5.336672 | 7.154587 |
| 7/20/2016 | | | | 5.656628 | 7.281557 | | |
| 9/13/2016 | 5.22 | 7.18 | 6.3 | 5.63 | 7.15 | | 7.96 |
| 9/14/2016 | | | | | | 7.29 | |
| 11/9/2016 | 5.57 | 6.03 | 6.26 | | | | 7.27 |
| 11/10/2016 | | | | 5.61 | 6.33 | | |
| 1/17/2017 | 5.48 | | 6.8 | | | | |
| 1/18/2017 | | | | 5.81 | 6.94 | | 7.72 |
| 1/19/2017 | | 6.71 | | | | 6.59 | |
| 3/13/2017 | 5.4 | | 6.18 | | | | |
| 3/14/2017 | | 6.45 | | 5.53 | 6.75 | 5.86 | |
| 4/24/2017 | 5.4 | | 6.35 | | | | |
| 4/25/2017 | | 6.93 | | 5.59 | 6.84 | 5.35 | 7.73 |
| 8/8/2017 | 5.32 | 6.72 | 6.23 | 5.52 | | | 7.74 |
| 8/9/2017 | | | | | 6.67 | 5.25 | |
| 8/25/2017 | | | | | | 5.44 | |
| 10/10/2017 | 5.26 | | 6.32 | | | | |
| 10/11/2017 | | 6.75 | | 5.51 | 6.75 | 6.99 | 7.71 |
| 3/27/2018 | 5.39 | | 6.14 | | | | |
| 3/28/2018 | | 6.84 | | 5.6 | 6.79 | 5.95 | 7.28 |
| 6/13/2018 | 5.33 | 6.31 | | | | 5.13 | 7.78 |
| 6/14/2018 | | | 6.02 | 5.58 | 6.67 | | |
| 9/24/2018 | | | 6.1 | | | | |
| 9/27/2018 | 5.33 | | | | | | |
| 9/28/2018 | | 6.26 | | | | | |
| 10/2/2018 | | | | | | | 7.52 |
| 10/3/2018 | | | | 5.45 | 6.92 | 5.22 | |
| 2/25/2019 | 5.25 | | 6.02 | | | | |
| 2/26/2019 | | 7.66 | | 5.6 | 6.74 | 5.21 | 7.87 |
| 4/1/2019 | 5.31 | | 6.09 | | | | |
| 4/2/2019 | | 7.53 | | 5.69 | 6.81 | 5.25 | 7.94 |
| 9/16/2019 | 5.28 | | | | | 6.94 | 7.55 |
| 9/17/2019 | | 6.47 | 6.25 | | 6.93 | | |
| 9/18/2019 | | | | 5.62 | | | |
| 2/3/2020 | 5.4 | | 6.09 | | | | |
| 2/4/2020 | | | | 5.66 | 7.29 | 5.31 | 7.74 |
| 2/5/2020 | | 6.73 | | | | | |
| 3/16/2020 | 5.29 | | 6.01 | | | | |
| 3/17/2020 | | 6.36 | | 5.61 | 6.83 | 5.34 | 7.96 |
| 9/21/2020 | | | 6.05 | 5.35 | 6.81 | | |
| 9/22/2020 | 5.09 | 7.18 | | | | 6.78 | 7.4 |
| 2/2/2021 | 5.36 | 6.48 | 6.1 | 5.78 | 6.61 | | |
| 2/3/2021 | | | | | | 5.3 | 7.76 |
| 3/10/2021 | | 5.8 | 6.11 | 5.49 | 7.19 | 5.22 | |
| 3/11/2021 | 5.26 | | | | | | 7.93 |

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|----------|-----------|---------|---------|----------|----------|
| 5/18/2016 | 5.5 | | | 8.96 | | | |
| 5/19/2016 | | 5.99 | 6.31 | | 5.93 | 6.91 | 6.85 |
| 7/18/2016 | | | | | 5.9661 | | |
| 7/19/2016 | 5.43 | | | | | | |
| 7/20/2016 | | 6.194334 | 6.345061 | 8.56774 | | 6.962608 | 6.705264 |
| 9/1/2016 | | | | | | 6.96 | |
| 9/13/2016 | 5.57 | | | | | | |
| 9/14/2016 | | | 6.33 | | | | 6.7 |
| 9/15/2016 | | 6.38 | | | | | |
| 11/10/2016 | 6.93 | | | | | | 6.5 |
| 11/11/2016 | | | | 6.96 | 6.03 | 6.76 | |
| 11/14/2016 | | 5.7 | | | | | |
| 1/18/2017 | 7.16 | | | | | | |
| 1/27/2017 | | | | | 6.21 | 6.66 | 6.47 |
| 2/6/2017 | | 5.66 | | 6.93 | | | |
| 3/14/2017 | 5.82 | | | | | | |
| 3/15/2017 | | 5.77 | 5.99 | 6.82 | 5.97 | 6.3 | 6.75 |
| 4/25/2017 | 5.57 | | | | | | |
| 4/26/2017 | | 5.39 | 6.03 | 6.73 | 6.17 | 6.67 | 6.57 |
| 8/8/2017 | 5.6 | | | | | | |
| 8/9/2017 | | | | | | | 6.55 |
| 8/10/2017 | | 5.59 | 5.86 | 6.66 | 6.05 | 6.7 | |
| 10/11/2017 | 5.43 | | | | | | |
| 10/12/2017 | | 5.46 | 6.09 | 6.67 | 6.89 | 6.89 | 6.67 |
| 3/28/2018 | 5.29 | | | | | | |
| 3/29/2018 | | 5.43 | 5.89 | | 6.85 | 7.08 | 6.99 |
| 3/30/2018 | | | | 6.98 | | | |
| 6/14/2018 | 5.39 | 5.76 | 6.47 | 6.56 | 5.89 | 6.73 | 6.39 |
| 10/3/2018 | 5.33 | | | | | | |
| 10/4/2018 | | 5.39 | 6.17 | 6.4 | 5.81 | 6.79 | 6.5 |
| 2/26/2019 | 5.62 | | | | | | |
| 2/27/2019 | | | | 6.23 | 5.78 | 6.7 | 6.47 |
| 2/28/2019 | | | 6.045 (D) | | | | |
| 4/2/2019 | 5.6 | | | | | | |
| 4/3/2019 | | 5.55 | 6.1 | | 6.07 | 6.91 | 6.47 |
| 4/4/2019 | | | | 6.46 | | | |
| 9/18/2019 | 5.6 | | | | | | 6.46 |
| 9/19/2019 | | 5.39 | 6.38 | 6.45 | 5.82 | 6.63 | |
| 2/5/2020 | 5.54 | | 6.54 | 6.42 | 5.89 | 6.76 | 6.44 |
| 2/7/2020 | | 5.38 | | | | | |
| 3/17/2020 | 5.32 | | | | | | |
| 3/18/2020 | | | | 6.4 | 5.89 | 6.94 | |
| 3/19/2020 | | 6.43 | 6.64 | | | | 6.56 |
| 9/22/2020 | 5.36 | 5.17 | | | | | |
| 9/23/2020 | | | 5.8 | 6.14 | | 6.42 | |
| 9/24/2020 | | | | | 5.5 | | 6.29 |
| 2/2/2021 | 5.84 | | | | | | |
| 2/3/2021 | | 5.08 | | | 5.21 | 6.15 | |
| 2/4/2021 | | | 6.22 | 6.21 | | | 6.34 |
| 3/10/2021 | 4.96 | | | | | | |
| 3/11/2021 | | 5.35 | | 6.56 | | | 5.95 |
| 3/12/2021 | | | 5.88 | | 5.46 | 6.66 | |

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 | WGWC-20 | WGWC-21 |
|------------|----------|----------|----------|----------|---------|---------|---------|
| 5/18/2016 | | 7.75 | 6.06 | 6.41 | | | |
| 7/18/2016 | | | 5.884339 | | | | |
| 7/19/2016 | | 7.876073 | | | | | |
| 7/20/2016 | | | | 6.662463 | | | |
| 9/14/2016 | | 7.79 | 5.89 | 6.7 | | | |
| 11/10/2016 | | 7.76 | 5.6 | 6.51 | | | |
| 11/11/2016 | | | | | 6.93 | | |
| 1/20/2017 | | | | 6.55 | | | |
| 1/24/2017 | | 7.71 | 5.54 | | | | |
| 2/6/2017 | | | | | 6.8 | | |
| 2/8/2017 | 5.81 | | | | | | |
| 2/23/2017 | 5.8 | | | | | | |
| 3/14/2017 | | 7.57 | | 6.27 | | | |
| 3/15/2017 | | | 5.39 | | 6.78 | | |
| 3/17/2017 | 5.97 | | | | | | |
| 4/11/2017 | 6.18 | | | | 6.79 | | |
| 4/25/2017 | | 7.47 | 5.28 | 6.26 | | | |
| 4/26/2017 | 6.09 | | | | 6.82 | | |
| 5/17/2017 | 6.26 | | | | | | |
| 6/7/2017 | 6.21 | | | | 6.76 | | |
| 7/11/2017 | 6 | | | | 6.99 | | |
| 8/9/2017 | | 7.37 | 5.46 | 6.47 | | | |
| 8/10/2017 | | | | | 6.59 | | |
| 10/11/2017 | 6.97 | 7.42 | 5.45 | 6.47 | | | |
| 10/12/2017 | | | | | 6.7 | | |
| 3/29/2018 | 6.51 | | 5.33 | | 6.88 | | |
| 3/30/2018 | | 7.48 | | 6.71 | | | |
| 6/14/2018 | 5.76 | 7.5 | 5.35 | 6.15 | 6.72 | | |
| 10/3/2018 | | 7.11 | | | | | |
| 10/4/2018 | 5.97 | | 5.28 | 6.14 | 6.67 | | |
| 2/26/2019 | | | | 6.17 | | | |
| 2/27/2019 | 5.73 | 7.4 | 5.08 | | | | |
| 2/28/2019 | | | | | 6.98 | | |
| 4/2/2019 | | | | | 6.75 | | |
| 4/3/2019 | 5.68 | | | | | | |
| 4/4/2019 | | 7.58 | 5.19 | 6.16 | | | |
| 9/18/2019 | 5.5 | 7.8 | 5.19 | 6.17 | 6.71 | | |
| 2/5/2020 | 5.52 | | | | | | |
| 2/7/2020 | | 7.66 | 5.17 | 6.34 | 7.08 | | |
| 3/18/2020 | | 7.73 | 5.08 | 6.28 | | | |
| 3/19/2020 | 5.49 | | | | | | |
| 5/4/2020 | | | | | 6.9 | | |
| 9/23/2020 | | 7.35 | 5.05 | 5.89 | 6.59 | | |
| 9/24/2020 | 5.16 | | | | | | |
| 2/3/2021 | | | | | 6.75 | | |
| 2/4/2021 | 5.76 | 7.77 | 5.42 | 6.31 | | | |
| 3/8/2021 | | | | | | 5.54 | |
| 3/9/2021 | | | | | | | 7.29 |
| 3/11/2021 | 5.1 | | 5.21 | 5.96 | 7.12 | | |
| 3/12/2021 | | 7.72 | | | | | |
| 4/7/2021 | | | | | | | 7.05 |
| 4/8/2021 | | | | | | 5.6 | |

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-22 | WGWC-23 | WGWC-24 | WGWC-25 |
|----------|---------|---------|---------|---------|
| 3/8/2021 | | | | 5.36 |
| 3/9/2021 | 5.56 | 5.81 | 4.29 | |
| 4/7/2021 | | 5.57 | 4.43 | |
| 4/8/2021 | 6.01 | | | 5.39 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <0.005 | <0.005 | <0.005 | | | | |
| 5/18/2016 | | | | <0.005 | <0.005 | <0.005 | <0.005 |
| 7/19/2016 | <0.005 | <0.005 | <0.005 | | | <0.005 | <0.005 |
| 7/20/2016 | | | | <0.005 | <0.005 | | |
| 9/13/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 |
| 9/14/2016 | | | | | | <0.005 | |
| 11/9/2016 | <0.005 | <0.005 | <0.005 | | | | <0.005 |
| 11/10/2016 | | | | <0.005 | <0.005 | | |
| 1/17/2017 | <0.005 | | <0.005 | | | | |
| 1/18/2017 | | | | <0.005 | <0.005 | | <0.005 |
| 1/19/2017 | | <0.005 | | | | <0.005 | |
| 3/13/2017 | <0.005 | | <0.005 | | | | |
| 3/14/2017 | | 0.0028 | | 0.00026 (J) | <0.005 | <0.005 | <0.005 |
| 4/24/2017 | <0.005 | | <0.005 | | | | |
| 4/25/2017 | | 0.0018 | | 0.00035 (J) | <0.005 | <0.005 | <0.005 |
| 8/8/2017 | 0.0013 | <0.005 | <0.005 | <0.005 | | | <0.005 |
| 8/9/2017 | | | | | <0.005 | <0.005 | |
| 3/27/2018 | 0.00055 (J) | | <0.005 | | | | |
| 3/28/2018 | | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 |
| 6/13/2018 | <0.005 | <0.005 | | | | 0.00025 (J) | <0.005 |
| 6/14/2018 | | | <0.005 | <0.005 | 0.00032 (J) | | |
| 9/24/2018 | | | <0.005 | | | | |
| 9/27/2018 | <0.005 | | | | | | |
| 9/28/2018 | | <0.005 | | | | | |
| 10/2/2018 | | | | | | | <0.005 |
| 10/3/2018 | | | | <0.005 | <0.005 | <0.005 | |
| 2/25/2019 | <0.005 | | <0.005 | | | | |
| 2/26/2019 | | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 |
| 4/1/2019 | <0.005 | | <0.005 | | | | |
| 4/2/2019 | | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/16/2019 | <0.005 | | | | | <0.005 | <0.005 |
| 9/17/2019 | | <0.005 | <0.005 | | <0.005 | | |
| 9/18/2019 | | | | <0.005 | | | |
| 2/3/2020 | <0.005 | | <0.005 | | | | |
| 2/4/2020 | | | | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/5/2020 | | <0.005 | | | | | |
| 3/16/2020 | <0.005 | | 0.0026 (J) | | | | |
| 3/17/2020 | | <0.005 | | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/21/2020 | | | <0.005 | <0.005 | <0.005 | | |
| 9/22/2020 | <0.005 | <0.005 | | | | <0.005 | <0.005 |
| 2/2/2021 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 2/3/2021 | | | | | | <0.005 | <0.005 |
| 3/10/2021 | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 3/11/2021 | <0.005 | | | | | | <0.005 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|------------|------------|-------------|-------------|---------|---------|
| 5/18/2016 | <0.005 | | | <0.005 | | | |
| 5/19/2016 | | 0.00518 | 0.00228 | | <0.005 | <0.005 | <0.005 |
| 7/19/2016 | <0.005 | | | | | | |
| 7/20/2016 | | 0.0038 | 0.0016 | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/13/2016 | <0.005 | | | | | | |
| 9/14/2016 | | | 0.0024 | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/15/2016 | | 0.0034 | | | | | |
| 11/10/2016 | <0.005 | | | | | | <0.005 |
| 11/11/2016 | | | | <0.005 | <0.005 | <0.005 | |
| 11/14/2016 | | 0.0033 | | | | | |
| 1/18/2017 | <0.005 | | | | | | |
| 1/27/2017 | | | | | <0.005 | <0.005 | <0.005 |
| 2/6/2017 | | 0.0033 | | <0.005 | | | |
| 2/9/2017 | | | 0.0023 | | | | |
| 3/14/2017 | <0.005 | | | | | | |
| 3/15/2017 | | 0.003 | 0.0031 | <0.005 | <0.005 | <0.005 | <0.005 |
| 4/11/2017 | | | 0.0023 | | | | |
| 4/25/2017 | <0.005 | | | | | | |
| 4/26/2017 | | 0.0032 | 0.0019 | <0.005 | <0.005 | <0.005 | <0.005 |
| 8/8/2017 | <0.005 | | | | | | |
| 8/9/2017 | | | | | | | <0.005 |
| 8/10/2017 | | 0.0031 | 0.0021 | 0.00031 (J) | 0.00049 (J) | 0.0021 | |
| 3/28/2018 | <0.005 | | | | | | |
| 3/29/2018 | | 0.0034 | 0.0021 | | <0.005 | <0.005 | <0.005 |
| 3/30/2018 | | | | <0.005 | | | |
| 6/14/2018 | <0.005 | 0.0031 | 0.0025 | <0.005 | <0.005 | <0.005 | <0.005 |
| 10/3/2018 | <0.005 | | | | | | |
| 10/4/2018 | | 0.0033 | 0.002 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/26/2019 | <0.005 | | | | | | |
| 2/27/2019 | | 0.0035 | | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/28/2019 | | | 0.0027 | | | | |
| 4/2/2019 | <0.005 | | | | | | |
| 4/3/2019 | | 0.0031 | 0.0019 | | <0.005 | <0.005 | <0.005 |
| 4/4/2019 | | | | <0.005 | | | |
| 9/18/2019 | <0.005 | | | | | | <0.005 |
| 9/19/2019 | | 0.0021 (J) | 0.0026 (J) | <0.005 | <0.005 | <0.005 | |
| 2/5/2020 | <0.005 | | 0.0033 (J) | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/7/2020 | | 0.0048 (J) | | | | | |
| 3/17/2020 | <0.005 | | | | | | |
| 3/18/2020 | | | | <0.005 | <0.005 | <0.005 | |
| 3/19/2020 | | 0.0037 (J) | 0.0033 (J) | | | | <0.005 |
| 9/22/2020 | <0.005 | 0.0039 (J) | | | | | |
| 9/23/2020 | | | 0.0029 (J) | <0.005 | | <0.005 | |
| 9/24/2020 | | | | | <0.005 | | <0.005 |
| 2/2/2021 | <0.005 | | | | | | |
| 2/3/2021 | | 0.0036 (J) | | | <0.005 | <0.005 | |
| 2/4/2021 | | | 0.003 (J) | <0.005 | | | <0.005 |
| 3/10/2021 | <0.005 | | | | | | |
| 3/11/2021 | | 0.0038 (J) | | <0.005 | | | <0.005 |
| 3/12/2021 | | | 0.0034 (J) | | <0.005 | <0.005 | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 |
|------------|------------|------------|------------|---------|-------------|
| 5/18/2016 | | <0.005 | 0.00735 | <0.005 | |
| 7/19/2016 | | <0.005 | 0.0075 | | |
| 7/20/2016 | | | | <0.005 | |
| 9/14/2016 | | <0.005 | 0.0091 | <0.005 | |
| 11/10/2016 | | <0.005 | 0.0056 | <0.005 | |
| 11/11/2016 | | | | | <0.005 |
| 1/20/2017 | | | | <0.005 | |
| 1/24/2017 | | <0.005 | 0.012 | | |
| 2/6/2017 | | | | | <0.005 |
| 2/8/2017 | <0.005 | | | | |
| 2/23/2017 | <0.005 | | | | |
| 3/14/2017 | | <0.005 | | <0.005 | |
| 3/15/2017 | | | 0.012 | | <0.005 |
| 3/17/2017 | <0.005 | | | | |
| 4/11/2017 | <0.005 | | | | <0.005 |
| 4/25/2017 | | <0.005 | 0.013 | <0.005 | |
| 4/26/2017 | <0.005 | | | | <0.005 |
| 5/17/2017 | <0.005 | | | | |
| 6/7/2017 | <0.005 | | | | <0.005 |
| 7/11/2017 | <0.005 | | | | <0.005 |
| 8/9/2017 | | <0.005 | 0.016 | <0.005 | |
| 8/10/2017 | | | | | 0.00036 (J) |
| 3/29/2018 | 0.0003 (J) | | 0.016 | | <0.005 |
| 3/30/2018 | | <0.005 | | <0.005 | |
| 6/14/2018 | <0.005 | 0.0005 (J) | 0.012 | <0.005 | <0.005 |
| 10/3/2018 | | <0.005 | | | |
| 10/4/2018 | <0.005 | | 0.013 | <0.005 | <0.005 |
| 2/26/2019 | | | | <0.005 | |
| 2/27/2019 | <0.005 | <0.005 | 0.0081 | | |
| 2/28/2019 | | | | | <0.005 |
| 4/2/2019 | | | | | <0.005 |
| 4/3/2019 | <0.005 | | | | |
| 4/4/2019 | | <0.005 | 0.0091 | <0.005 | |
| 9/18/2019 | <0.005 | <0.005 | 0.0044 (J) | <0.005 | <0.005 |
| 2/5/2020 | <0.005 | | | | |
| 2/7/2020 | | <0.005 | 0.0036 (J) | <0.005 | <0.005 |
| 3/18/2020 | | <0.005 | 0.0046 (J) | <0.005 | |
| 3/19/2020 | <0.005 | | | | |
| 5/4/2020 | | | | | <0.005 |
| 9/23/2020 | | <0.005 | 0.0028 (J) | <0.005 | <0.005 |
| 9/24/2020 | <0.005 | | | | |
| 2/3/2021 | | | | | <0.005 |
| 2/4/2021 | <0.005 | <0.005 | 0.0023 (J) | <0.005 | |
| 3/11/2021 | <0.005 | | 0.0023 (J) | <0.005 | <0.005 |
| 3/12/2021 | | <0.005 | | | |

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <1 | 19.9 | 1.14 | | | | |
| 5/18/2016 | | | | 0.821 (J) | 5.32 | 0.955 (J) | 8.88 |
| 7/19/2016 | <1 | 14 | 1.4 | | | 0.76 (J) | 9 |
| 7/20/2016 | | | | 0.82 (J) | 6.5 | | |
| 9/13/2016 | <1 | 11 | 1.1 | 0.81 (J) | 5.6 | | 8.5 |
| 9/14/2016 | | | | | | 3.4 | |
| 11/9/2016 | <1 | 6.3 | 1.1 | | | | 8.2 |
| 11/10/2016 | | | | 0.73 (J) | 5.4 | | |
| 1/17/2017 | <1 | | 2.1 | | | | |
| 1/18/2017 | | | | 0.99 (J) | 5.1 | | 9.4 |
| 1/19/2017 | | 7.4 | | | | 21 | |
| 3/13/2017 | <1 | | 0.97 (J) | | | | |
| 3/14/2017 | | 10 | | 0.83 (J) | 4.6 | 1.4 | 2 |
| 4/24/2017 | <1 | | 0.75 (J) | | | | |
| 4/25/2017 | | 10 | | 0.7 (J) | 6.6 | 0.89 (J) | 8.2 |
| 8/8/2017 | <1 | 12 | 1.1 | 0.82 (J) | | | 8.5 |
| 8/9/2017 | | | | | 7.3 | 0.75 (J) | |
| 10/10/2017 | <1 | | 1.3 | | | | |
| 10/11/2017 | | 11 | | 0.72 (J) | 6.8 | <1 | 8.3 |
| 6/13/2018 | <1 | 8.2 | | | | <1 | 8.3 |
| 6/14/2018 | | | 0.84 (J) | <1 | 6.9 | | |
| 9/24/2018 | | | 0.79 (J) | | | | |
| 9/27/2018 | <1 | | | | | | |
| 9/28/2018 | | 7.6 | | | | | |
| 10/2/2018 | | | | | | | 8.3 |
| 10/3/2018 | | | | 0.73 (J) | 7 | <1 | |
| 4/1/2019 | <1 | | 1 | | | | |
| 4/2/2019 | | 11 | | 1.1 | 8.1 | 0.94 (J) | 8.5 |
| 9/16/2019 | 0.49 (J) | | | | | 2.2 | 8.9 |
| 9/17/2019 | | 8 | 1.3 | | 8.1 | | |
| 9/18/2019 | | | | 0.78 (J) | | | |
| 3/16/2020 | 0.42 (J) | | 1.3 | | | | |
| 3/17/2020 | | 8.5 | | 1.2 | 12 | 4 | 12 |
| 9/21/2020 | | | 1.1 | 0.77 (J) | 7.7 | | |
| 9/22/2020 | <1 | 9 | | | | 1.5 | 8 |
| 3/10/2021 | | 7.1 | 0.9 (J) | 0.91 (J) | 8.1 | <1 | |
| 3/11/2021 | <1 | | | | | | 8.4 |

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|--------|--------|---------|---------|---------|----------|
| 5/18/2016 | 0.368 (J) | | | 2.84 | | | |
| 5/19/2016 | | 146 | 35.9 | | 1.83 | 15.8 | 19.2 |
| 7/19/2016 | <1 | | | | | | |
| 7/20/2016 | | 150 | 37 | 2.8 | 1.6 | 16 | 11 |
| 9/13/2016 | <1 | | | | | | |
| 9/14/2016 | | | 39 | 2.8 | 1.5 | 16 | 8.6 |
| 9/15/2016 | | 140 | | | | | |
| 11/10/2016 | <1 | | | | | | 5.7 |
| 11/11/2016 | | | | 2.6 | 1.4 | 14 | |
| 11/14/2016 | | 160 | | | | | |
| 1/18/2017 | 1.4 | | | | | | |
| 1/27/2017 | | | | | 2.5 | 15 | 6.8 |
| 2/6/2017 | | 180 | | 2.7 | | | |
| 2/9/2017 | | | 60 | | | | |
| 3/14/2017 | <1 | | | | | | |
| 3/15/2017 | | 170 | 44 | 2.7 | 2.5 | 17 | 11 |
| 4/11/2017 | | | 36 | | | | |
| 4/25/2017 | <1 | | | | | | |
| 4/26/2017 | | 180 | 37 | 2.5 | 2.2 | 15 | 8.1 |
| 8/8/2017 | <1 | | | | | | |
| 8/9/2017 | | | | | | | 8.1 |
| 8/10/2017 | | 180 | 38 | 2.2 | 2.3 | 16 | |
| 10/11/2017 | <1 | | | | | | |
| 10/12/2017 | | 180 | 37 | 1.9 | 1.9 | 14 | 6.1 |
| 6/14/2018 | <1 | 170 | 37 | 2 | 1.7 | 14 | 5 |
| 10/3/2018 | <1 | | | | | | |
| 10/4/2018 | | 780 | 38 | 1.9 | 1.6 | 14 | 4.3 |
| 4/2/2019 | 0.4 (J) | | | | | | |
| 4/3/2019 | | 180 | 41 | | 1.9 | 13 | 3.8 |
| 4/4/2019 | | | | 2.2 | | | |
| 9/18/2019 | <1 | | | | | | 3.9 |
| 9/19/2019 | | 190 | 42 | 2.1 | 1.3 | 14 | |
| 3/17/2020 | 0.86 (J) | | | | | | |
| 3/18/2020 | | | | 2.1 | 1.6 | 12 | |
| 3/19/2020 | | 200 | 45 | | | | 4 |
| 9/22/2020 | 0.38 (J) | 200 | | | | | |
| 9/23/2020 | | | 54 | 1.8 | | 12 | |
| 9/24/2020 | | | | | 2.7 | | 0.63 (J) |
| 3/10/2021 | <1 | | | | | | |
| 3/11/2021 | | 220 | | 2.8 | | | 2.9 |
| 3/12/2021 | | | 62 | | 2 | 14 | |

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 | WGWC-20 | WGWC-21 |
|------------|----------|---------|---------|---------|---------|---------|---------|
| 5/18/2016 | | 50.7 | 388 | 32.1 | | | |
| 7/19/2016 | | 62 | 460 | | | | |
| 7/20/2016 | | | | 9.7 | | | |
| 9/14/2016 | | 79 | 500 | 6.6 | | | |
| 11/10/2016 | | 61 | 530 | 5.2 | | | |
| 11/11/2016 | | | | | 3.4 | | |
| 1/20/2017 | | | | 5.3 | | | |
| 1/24/2017 | | 34 | 600 | | | | |
| 2/6/2017 | | | | | 3.7 | | |
| 2/8/2017 | 4.3 | | | | | | |
| 2/23/2017 | 16 | | | | | | |
| 3/14/2017 | | 43 | | 9.6 | | | |
| 3/15/2017 | | | 610 | | 3.6 | | |
| 3/17/2017 | 22 | | | | | | |
| 4/11/2017 | 13 | | | | 3.2 | | |
| 4/25/2017 | | 39 | 620 | 20 | | | |
| 4/26/2017 | 20 | | | | 3.3 | | |
| 5/17/2017 | 12 | | | | | | |
| 6/7/2017 | 8.1 | | | | 3.8 | | |
| 7/11/2017 | 17 | | | | 3.3 | | |
| 8/9/2017 | | 35 | 780 | 6.5 | | | |
| 8/10/2017 | | | | | 3.7 | | |
| 10/11/2017 | 3.4 | 48 | 720 | 13 | | | |
| 10/12/2017 | | | | | 3.6 | | |
| 6/14/2018 | 5.8 | 44 | 620 | 16 | 3.5 | | |
| 10/3/2018 | | 49 | | | | | |
| 10/4/2018 | 2.8 | | 560 | 15 | 4.6 | | |
| 4/2/2019 | | | | | 3.8 | | |
| 4/3/2019 | 3.8 | | | | | | |
| 4/4/2019 | | 41 | 250 | 9.1 | | | |
| 9/18/2019 | 1.7 | 37 | 130 | 7.3 | 3.6 | | |
| 3/18/2020 | | 17 | 120 | 4.2 | | | |
| 3/19/2020 | 1.5 | | | | | | |
| 5/4/2020 | | | | | 4.5 | | |
| 9/23/2020 | | 21 | 85 | 4.4 | 3 | | |
| 9/24/2020 | 1.2 | | | | | | |
| 3/8/2021 | | | | | | 240 | |
| 3/9/2021 | | | | | | | 230 |
| 3/11/2021 | 1.7 | | 64 | 3.9 | 4 | | |
| 3/12/2021 | | 19 | | | | | |
| 4/7/2021 | | | | | | | 190 |
| 4/8/2021 | | | | | | 240 | |

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-22 | WGWC-23 | WGWC-24 | WGWC-25 |
|----------|---------|---------|---------|---------|
| 3/8/2021 | | | | 4.7 |
| 3/9/2021 | 80 | 14 | 140 | |
| 4/7/2021 | | 5.1 | 160 | |
| 4/8/2021 | 60 | | | 5.8 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <0.001 | <0.001 | <0.001 | | | | |
| 5/18/2016 | | | | <0.001 | <0.001 | <0.001 | <0.001 |
| 7/19/2016 | <0.001 | <0.001 | <0.001 | | | <0.001 | <0.001 |
| 7/20/2016 | | | | <0.001 | <0.001 | | |
| 9/13/2016 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 |
| 9/14/2016 | | | | | | 9E-05 (J) | |
| 11/9/2016 | <0.001 | <0.001 | <0.001 | | | | <0.001 |
| 11/10/2016 | | | | <0.001 | <0.001 | | |
| 1/17/2017 | <0.001 | | <0.001 | | | | |
| 1/18/2017 | | | | <0.001 | <0.001 | | <0.001 |
| 1/19/2017 | | <0.001 | | | | <0.001 | |
| 3/13/2017 | <0.001 | | <0.001 | | | | |
| 3/14/2017 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 4/24/2017 | <0.001 | | <0.001 | | | | |
| 4/25/2017 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/8/2017 | <0.001 | <0.001 | <0.001 | <0.001 | | | <0.001 |
| 8/9/2017 | | | | | <0.001 | <0.001 | |
| 3/27/2018 | <0.001 | | <0.001 | | | | |
| 3/28/2018 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 6/13/2018 | <0.001 | <0.001 | | | | <0.001 | <0.001 |
| 6/14/2018 | | | <0.001 | <0.001 | <0.001 | | |
| 9/24/2018 | | | <0.001 | | | | |
| 9/27/2018 | <0.001 | | | | | | |
| 9/28/2018 | | <0.001 | | | | | |
| 10/2/2018 | | | | | | | <0.001 |
| 10/3/2018 | | | | <0.001 | <0.001 | <0.001 | |
| 2/25/2019 | <0.001 | | <0.001 | | | | |
| 2/26/2019 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 4/1/2019 | <0.001 | | <0.001 | | | | |
| 4/2/2019 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/16/2019 | 0.00016 (J) | | | | | <0.001 | 0.00062 (J) |
| 9/17/2019 | | <0.001 | <0.001 | | <0.001 | | |
| 9/18/2019 | | | | <0.001 | | | |
| 2/3/2020 | <0.001 | | 0.0002 (J) | | | | |
| 2/4/2020 | | | | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/5/2020 | | <0.001 | | | | | |
| 3/16/2020 | 0.00036 (J) | | 0.0003 (J) | | | | |
| 3/17/2020 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/21/2020 | | | <0.001 | <0.001 | <0.001 | | |
| 9/22/2020 | <0.001 | <0.001 | | | | <0.001 | <0.001 |
| 2/2/2021 | <0.001 | <0.001 | 0.0004 (J) | <0.001 | <0.001 | | |
| 2/3/2021 | | | | | | 0.00042 (J) | <0.001 |
| 3/10/2021 | | <0.001 | 0.00073 (J) | 0.00028 (J) | 0.00017 (J) | <0.001 | |
| 3/11/2021 | 0.00045 (J) | | | | | | <0.001 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|--------|--------|-------------|-------------|---------|---------|
| 5/18/2016 | <0.001 | | | <0.001 | | | |
| 5/19/2016 | | <0.001 | <0.001 | | <0.001 | <0.001 | <0.001 |
| 7/19/2016 | <0.001 | | | | | | |
| 7/20/2016 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/13/2016 | <0.001 | | | | | | |
| 9/14/2016 | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/15/2016 | | <0.001 | | | | | |
| 11/10/2016 | <0.001 | | | | | | <0.001 |
| 11/11/2016 | | | | <0.001 | <0.001 | <0.001 | |
| 11/14/2016 | | <0.001 | | | | | |
| 1/18/2017 | <0.001 | | | | | | |
| 1/27/2017 | | | | | <0.001 | <0.001 | <0.001 |
| 2/6/2017 | | <0.001 | | <0.001 | | | |
| 2/9/2017 | | | <0.001 | | | | |
| 3/14/2017 | <0.001 | | | | | | |
| 3/15/2017 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 4/11/2017 | | | <0.001 | | | | |
| 4/25/2017 | <0.001 | | | | | | |
| 4/26/2017 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/8/2017 | <0.001 | | | | | | |
| 8/9/2017 | | | | | | | <0.001 |
| 8/10/2017 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 3/28/2018 | <0.001 | | | | | | |
| 3/29/2018 | | <0.001 | <0.001 | | <0.001 | <0.001 | <0.001 |
| 3/30/2018 | | | | 8.5E-05 (J) | | | |
| 6/14/2018 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 10/3/2018 | <0.001 | | | | | | |
| 10/4/2018 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/26/2019 | <0.001 | | | | | | |
| 2/27/2019 | | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/28/2019 | | | <0.001 | | | | |
| 4/2/2019 | <0.001 | | | | | | |
| 4/3/2019 | | <0.001 | <0.001 | | <0.001 | <0.001 | <0.001 |
| 4/4/2019 | | | | <0.001 | | | |
| 9/18/2019 | <0.001 | | | | | | <0.001 |
| 9/19/2019 | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/5/2020 | 0.00026 (J) | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/7/2020 | | <0.001 | | | | | |
| 3/17/2020 | <0.001 | | | | | | |
| 3/18/2020 | | | | <0.001 | <0.001 | <0.001 | |
| 3/19/2020 | | <0.001 | <0.001 | | | | <0.001 |
| 9/22/2020 | <0.001 | <0.001 | | | | | |
| 9/23/2020 | | | <0.001 | <0.001 | | <0.001 | |
| 9/24/2020 | | | | | <0.001 | | <0.001 |
| 2/2/2021 | <0.001 | | | | | | |
| 2/3/2021 | | <0.001 | | | 0.00016 (J) | <0.001 | |
| 2/4/2021 | | | <0.001 | <0.001 | | | <0.001 |
| 3/10/2021 | <0.001 | | | | | | |
| 3/11/2021 | | <0.001 | | <0.001 | | | <0.001 |
| 3/12/2021 | | | <0.001 | | <0.001 | <0.001 | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 |
|------------|-------------|---------|-------------|---------|-------------|
| 5/18/2016 | | <0.001 | <0.001 | <0.001 | |
| 7/19/2016 | | <0.001 | 8.5E-05 (J) | | |
| 7/20/2016 | | | | <0.001 | |
| 9/14/2016 | | <0.001 | 0.00017 (J) | <0.001 | |
| 11/10/2016 | | <0.001 | 0.00017 (J) | <0.001 | |
| 11/11/2016 | | | | | <0.001 |
| 1/20/2017 | | | | <0.001 | |
| 1/24/2017 | | <0.001 | 0.00023 (J) | | |
| 2/6/2017 | | | | | <0.001 |
| 2/8/2017 | 0.00011 (J) | | | | |
| 2/23/2017 | 0.00012 (J) | | | | |
| 3/14/2017 | | <0.001 | | <0.001 | |
| 3/15/2017 | | | 0.00021 (J) | | <0.001 |
| 3/17/2017 | <0.001 | | | | |
| 4/11/2017 | <0.001 | | | | <0.001 |
| 4/25/2017 | | <0.001 | 0.00024 (J) | <0.001 | |
| 4/26/2017 | <0.001 | | | | <0.001 |
| 5/17/2017 | <0.001 | | | | |
| 6/7/2017 | <0.001 | | | | <0.001 |
| 7/11/2017 | <0.001 | | | | <0.001 |
| 8/9/2017 | | <0.001 | 0.0002 (J) | <0.001 | |
| 8/10/2017 | | | | | <0.001 |
| 3/29/2018 | 0.0002 (J) | | 0.00019 (J) | | <0.001 |
| 3/30/2018 | | <0.001 | | <0.001 | |
| 6/14/2018 | 0.00014 (J) | <0.001 | 0.00017 (J) | <0.001 | <0.001 |
| 10/3/2018 | | <0.001 | | | |
| 10/4/2018 | 0.00013 (J) | | 0.00015 (J) | <0.001 | <0.001 |
| 2/26/2019 | | | | <0.001 | |
| 2/27/2019 | 0.00016 (J) | <0.001 | 0.00015 (J) | | |
| 2/28/2019 | | | | | <0.001 |
| 4/2/2019 | | | | | <0.001 |
| 4/3/2019 | 0.00012 (J) | | | | |
| 4/4/2019 | | <0.001 | 9.5E-05 (J) | <0.001 | |
| 9/18/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 2/5/2020 | 0.00022 (J) | | | | |
| 2/7/2020 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 3/18/2020 | | <0.001 | <0.001 | <0.001 | |
| 3/19/2020 | 0.00017 (J) | | | | |
| 5/4/2020 | | | | | <0.001 |
| 9/23/2020 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/24/2020 | <0.001 | | | | |
| 2/3/2021 | | | | | 0.00018 (J) |
| 2/4/2021 | 0.00021 (J) | <0.001 | <0.001 | <0.001 | |
| 3/11/2021 | 0.00019 (J) | | <0.001 | <0.001 | <0.001 |
| 3/12/2021 | | <0.001 | | | |

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-18 (bg) | WGWA-2 (bg) | WGWA-3 (bg) | WGWA-4 (bg) | WGWA-5 (bg) | WGWA-6 (bg) |
|------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 5/17/2016 | <10 | 112 | 100 | | | | |
| 5/18/2016 | | | | 29 | 101 | 33 | 113 |
| 7/19/2016 | 14 | 80 | 84 | | | <10 | 92 |
| 7/20/2016 | | | | <10 | 86 | | |
| 9/13/2016 | 50 | 120 | 70 | 12 | 28 | | 100 |
| 9/14/2016 | | | | | | 150 | |
| 11/9/2016 | 22 | 76 | 110 | | | | 130 |
| 11/10/2016 | | | | 30 | 110 | | |
| 1/17/2017 | 8 | | 120 | | | | |
| 1/18/2017 | | | | 22 | 98 | | 120 |
| 1/19/2017 | | 36 | | | | 34 | |
| 3/13/2017 | <10 | | 58 | | | | |
| 3/14/2017 | | 70 | | 22 | 110 | 32 | 110 |
| 4/24/2017 | 10 | | 94 | | | | |
| 4/25/2017 | | 70 | | 22 | 86 | 22 | 100 |
| 8/8/2017 | <10 | 72 | 62 | 4 (J) | | | 90 |
| 8/9/2017 | | | | | 92 | 20 | |
| 10/10/2017 | 44 | | 140 | | | | |
| 10/11/2017 | | 90 | | 10 | 110 | 4 (J) | 98 |
| 6/13/2018 | 24 | 38 | | | | <10 | 110 |
| 6/14/2018 | | | 80 | 26 | 92 | | |
| 9/24/2018 | | | 76 | | | | |
| 9/27/2018 | 28 | | | | | | |
| 9/28/2018 | | 68 | | | | | |
| 10/2/2018 | | | | | | | 130 |
| 10/3/2018 | | | | 50 | 100 | 24 | |
| 4/1/2019 | <10 | | 63 | | | | |
| 4/2/2019 | | 100 | | 28 | 100 | 25 | 110 |
| 9/16/2019 | 27 | | | | | 41 | 110 |
| 9/17/2019 | | 76 | 120 | | 120 | | |
| 9/18/2019 | | | | 36 | | | |
| 3/16/2020 | 23 | | 90 | | | | |
| 3/17/2020 | | 81 | | 20 | 100 | 18 | 120 |
| 9/21/2020 | | | 100 | 22 | 92 | | |
| 9/22/2020 | 24 | 96 | | | | 190 | 130 |
| 3/10/2021 | | 72 | 100 | 20 | 100 | 19 | |
| 3/11/2021 | 24 | | | | | | 110 |

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-7 (bg) | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-11 | WGWC-12 | WGWC-13 |
|------------|-------------|--------|--------|---------|---------|---------|---------|
| 5/18/2016 | 31 | | | 70 | | | |
| 5/19/2016 | | 311 | 134 | | 39 | 101 | 127 |
| 7/19/2016 | <10 | | | | | | |
| 7/20/2016 | | 290 | 120 | 42 | <10 | 76 | 88 |
| 9/13/2016 | <10 | | | | | | |
| 9/14/2016 | | | 140 | 40 | 24 | 96 | 92 |
| 9/15/2016 | | 270 | | | | | |
| 11/10/2016 | 44 | | | | | | 100 |
| 11/11/2016 | | | | 72 | 42 | 100 | |
| 11/14/2016 | | 320 | | | | | |
| 1/18/2017 | 50 | | | | | | |
| 1/27/2017 | | | | | 18 | 50 | 80 |
| 2/6/2017 | | 330 | | 24 | | | |
| 2/9/2017 | | | 180 | | | | |
| 3/14/2017 | 26 | | | | | | |
| 3/15/2017 | | 370 | 160 | 78 | 54 | 120 | 100 |
| 4/11/2017 | | | 120 | | | | |
| 4/25/2017 | 10 | | | | | | |
| 4/26/2017 | | 380 | 140 | 48 | 42 | 100 | 92 |
| 8/8/2017 | <10 | | | | | | |
| 8/9/2017 | | | | | | | 120 |
| 8/10/2017 | | 380 | 130 | 38 | 30 | 96 | |
| 10/11/2017 | 42 | | | | | | |
| 10/12/2017 | | 450 | 120 | 72 | 54 | 100 | 110 |
| 6/14/2018 | 14 | 410 | 120 | 40 | 16 | 94 | 88 |
| 10/3/2018 | 6 | | | | | | |
| 10/4/2018 | | 520 | 140 | 60 | 56 | 110 | 100 |
| 4/2/2019 | 15 | | | | | | |
| 4/3/2019 | | 430 | 120 | | <10 | 66 | 72 |
| 4/4/2019 | | | | 30 | | | |
| 9/18/2019 | 35 | | | | | | 110 |
| 9/19/2019 | | 440 | 130 | 52 | 27 | 89 | |
| 3/17/2020 | 19 | | | | | | |
| 3/18/2020 | | | | 58 | 26 | 73 | |
| 3/19/2020 | | 540 | 160 | | | | 95 |
| 9/22/2020 | 15 | 600 | | | | | |
| 9/23/2020 | | | 150 | 50 | | 90 | |
| 9/24/2020 | | | | | 60 | | 21 |
| 3/10/2021 | 20 | | | | | | |
| 3/11/2021 | | 530 | | 52 | | | 63 |
| 3/12/2021 | | | 130 | | 27 | 78 | |

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A | WGWC-15 | WGWC-16 | WGWC-17 | WGWC-19 | WGWC-20 | WGWC-21 |
|------------|----------|---------|---------|---------|---------|---------|---------|
| 5/18/2016 | | 190 | 1080 | 107 | | | |
| 7/19/2016 | | 180 | 1200 | | | | |
| 7/20/2016 | | | | 78 | | | |
| 9/14/2016 | | 230 | 1300 | 82 | | | |
| 11/10/2016 | | 210 | 1400 | 98 | | | |
| 11/11/2016 | | | | | 98 | | |
| 1/20/2017 | | | | 82 | | | |
| 1/24/2017 | | 140 | 1300 | | | | |
| 2/6/2017 | | | | | 36 | | |
| 2/8/2017 | 54 | | | | | | |
| 2/23/2017 | 78 | | | | | | |
| 3/14/2017 | | 220 | | 120 | | | |
| 3/15/2017 | | | 1500 | | 120 | | |
| 3/17/2017 | 56 | | | | | | |
| 4/11/2017 | 76 | | | | 68 | | |
| 4/25/2017 | | 180 | 1700 | 120 | | | |
| 4/26/2017 | 76 | | | | 76 | | |
| 5/17/2017 | 68 | | | | | | |
| 6/7/2017 | 72 | | | | 74 | | |
| 7/11/2017 | 68 | | | | 70 | | |
| 8/9/2017 | | 180 | 1900 | 92 | | | |
| 8/10/2017 | | | | | 66 | | |
| 10/11/2017 | 68 | 200 | 1900 | 74 | | | |
| 10/12/2017 | | | | | 100 | | |
| 6/14/2018 | 52 | 170 | 1500 | 100 | 74 | | |
| 10/3/2018 | | 260 | | | | | |
| 10/4/2018 | 130 | | 1700 | 98 | 100 | | |
| 4/2/2019 | | | | | 88 | | |
| 4/3/2019 | 31 | | | | | | |
| 4/4/2019 | | 170 | 710 | 89 | | | |
| 9/18/2019 | 33 | 160 | 520 | 79 | 96 | | |
| 3/18/2020 | | 160 | 370 | 98 | | | |
| 3/19/2020 | 18 | | | | | | |
| 5/4/2020 | | | | | 110 | | |
| 9/23/2020 | | 150 | 250 | 60 | 94 | | |
| 9/24/2020 | 24 | | | | | | |
| 3/8/2021 | | | | | | 590 | |
| 3/9/2021 | | | | | | | 610 |
| 3/11/2021 | 24 | | 190 | 75 | 100 | | |
| 3/12/2021 | | 130 | | | | | |
| 4/7/2021 | | | | | | | 520 |
| 4/8/2021 | | | | | | 540 | |

Time Series

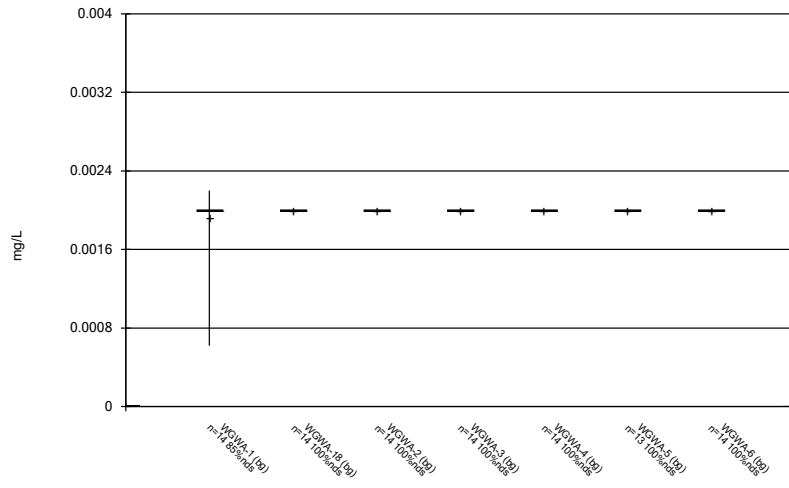
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-22 | WGWC-23 | WGWC-24 | WGWC-25 |
|----------|---------|---------|---------|---------|
| 3/8/2021 | | | | 220 |
| 3/9/2021 | 200 | 79 | 370 | |
| 4/7/2021 | | 66 | 510 | |
| 4/8/2021 | 170 | | | 180 |

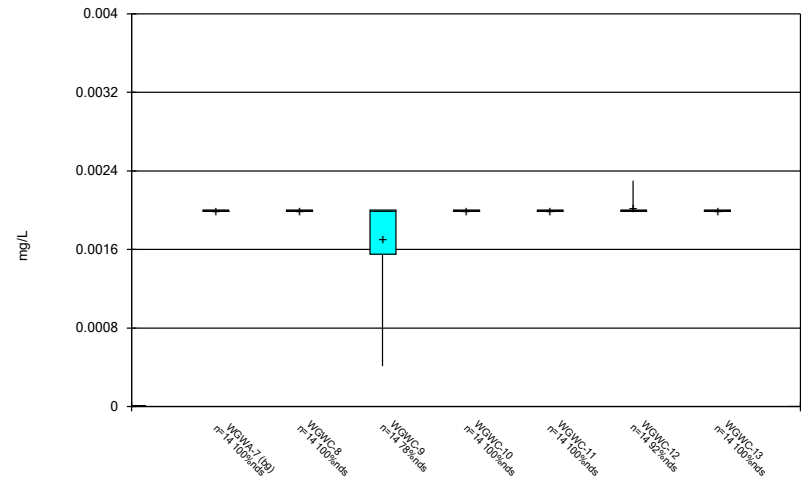
FIGURE B.

Box & Whiskers Plot



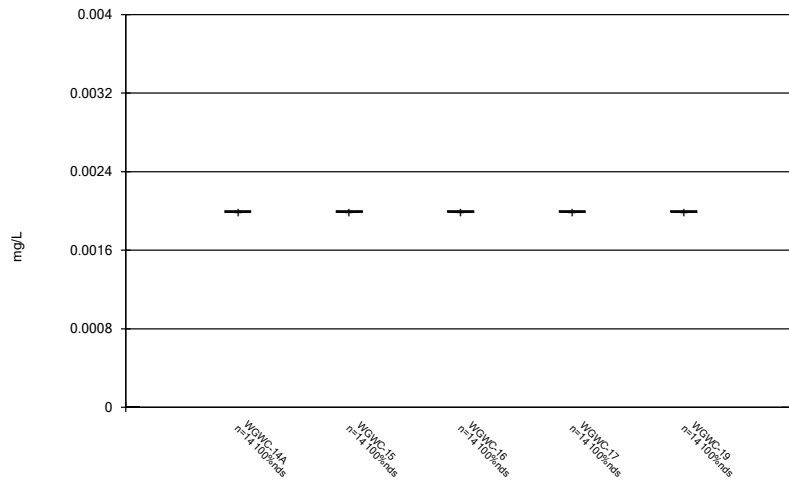
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



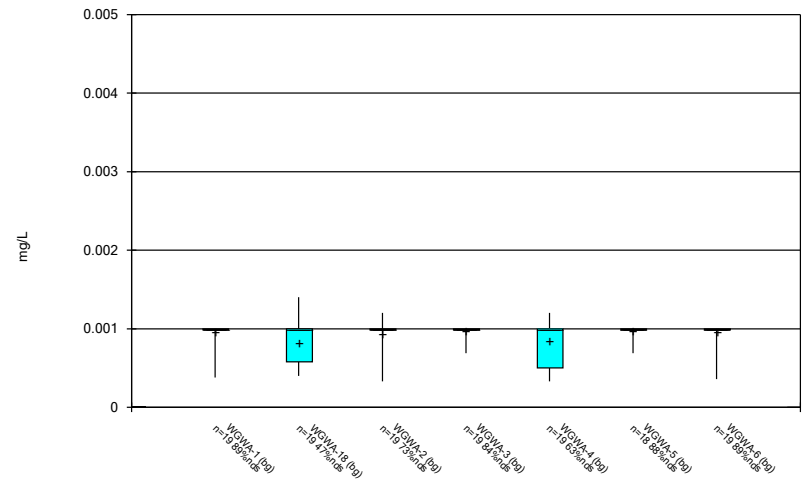
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



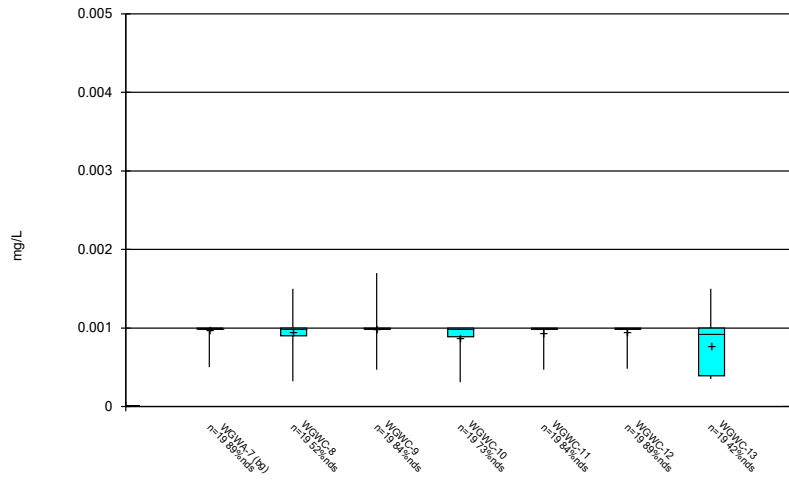
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



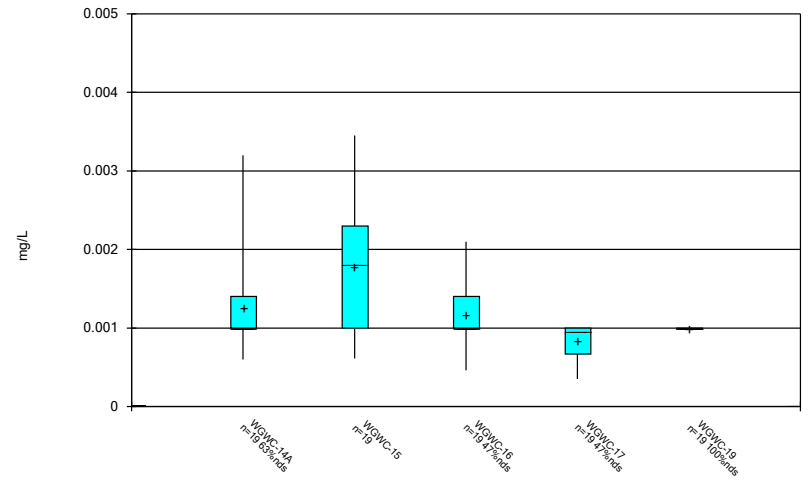
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



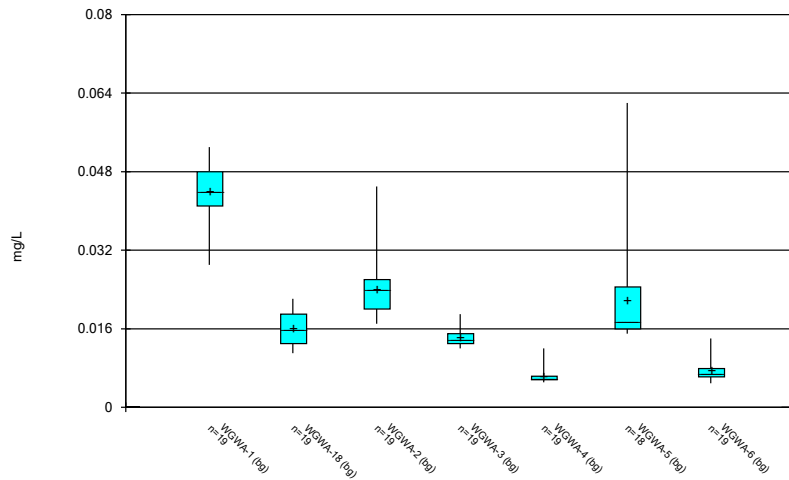
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



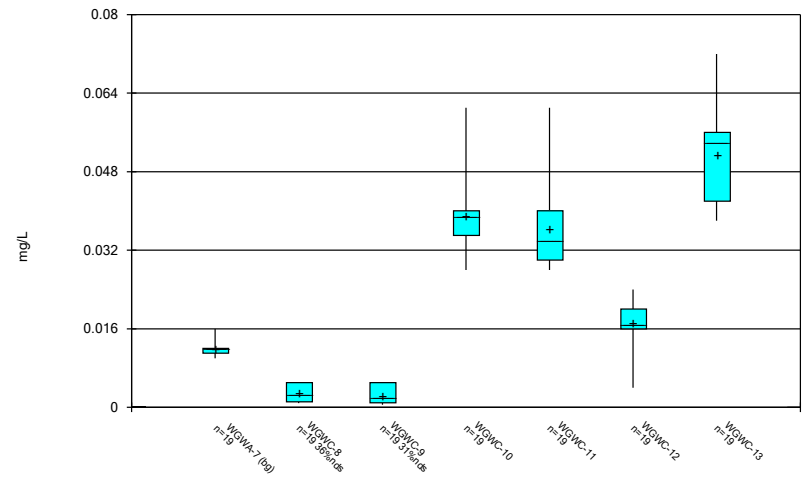
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



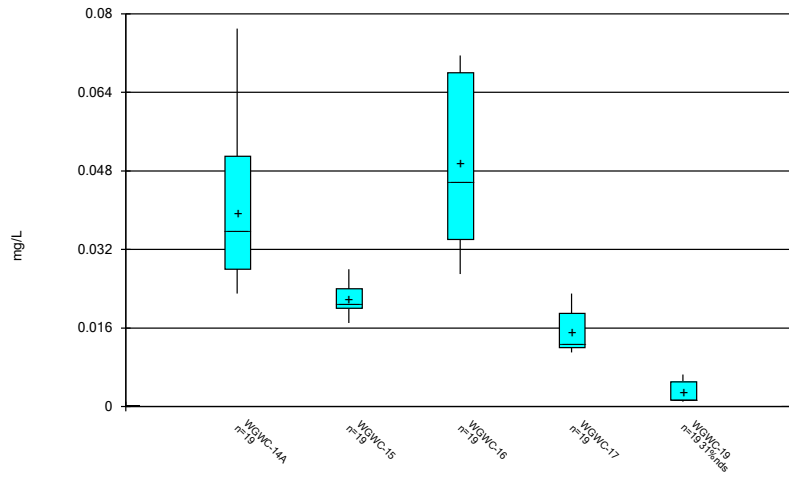
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



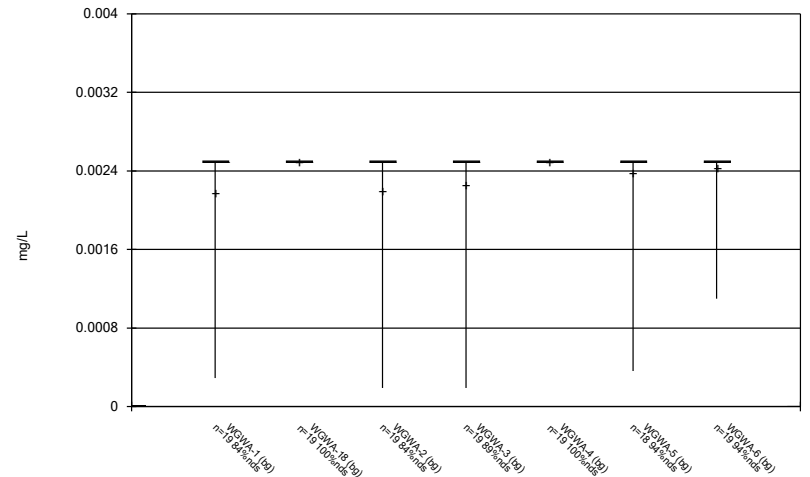
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



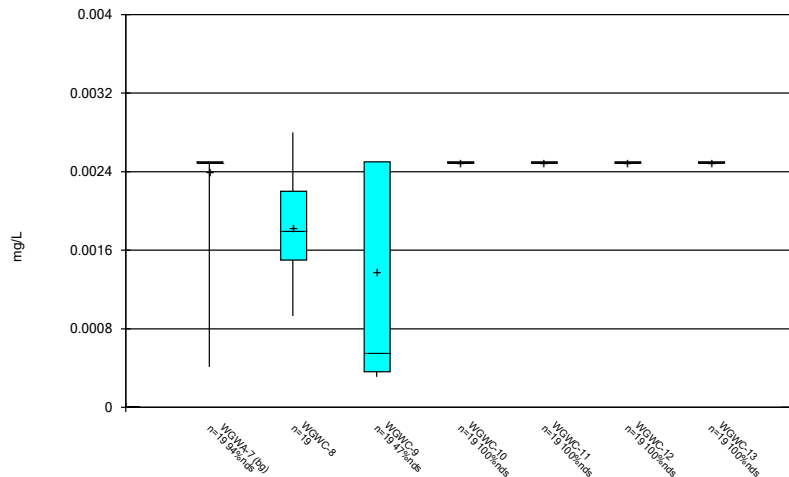
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



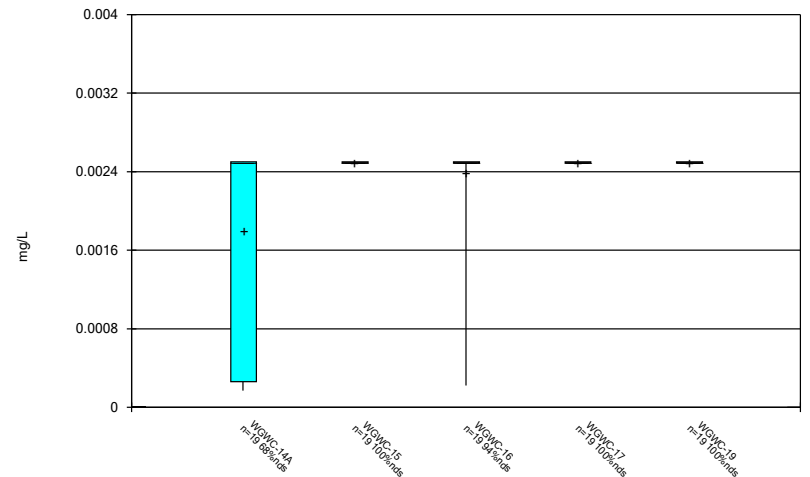
Constituent: Beryllium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



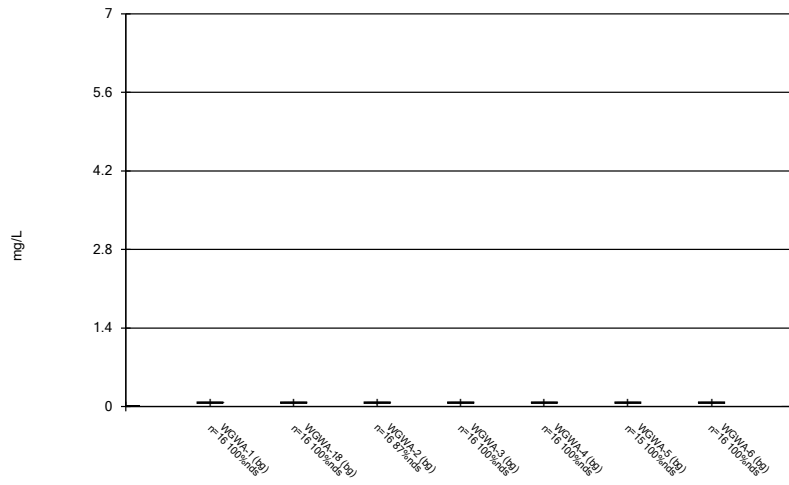
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



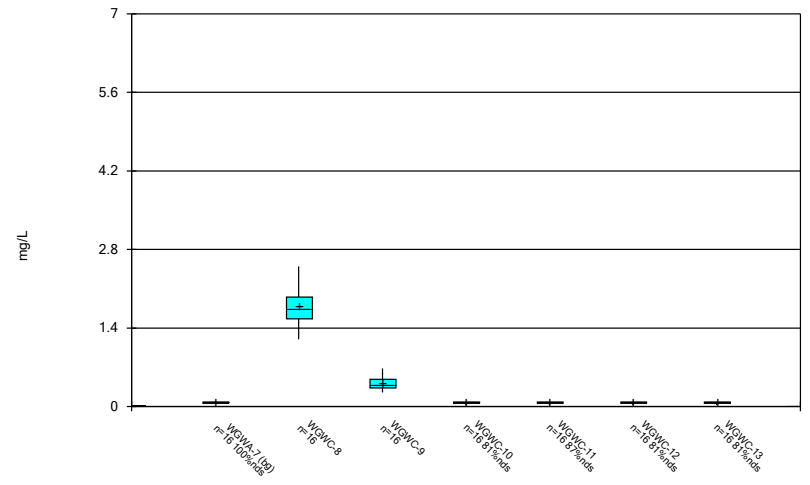
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



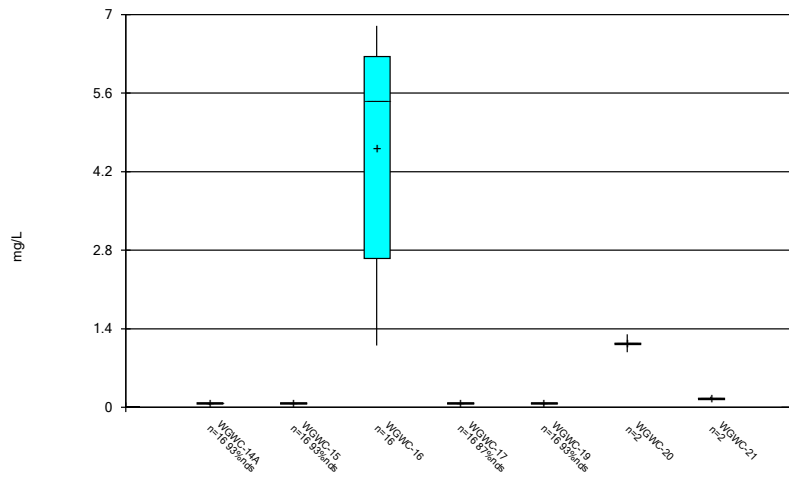
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Box & Whiskers Plot



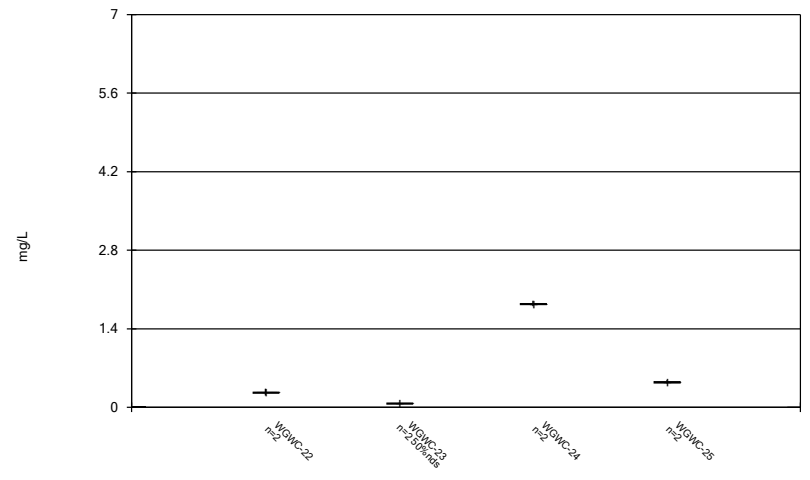
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



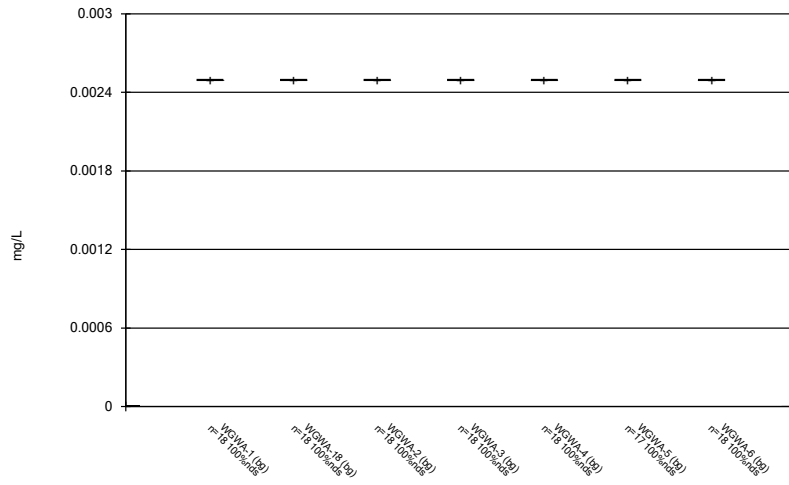
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Box & Whiskers Plot



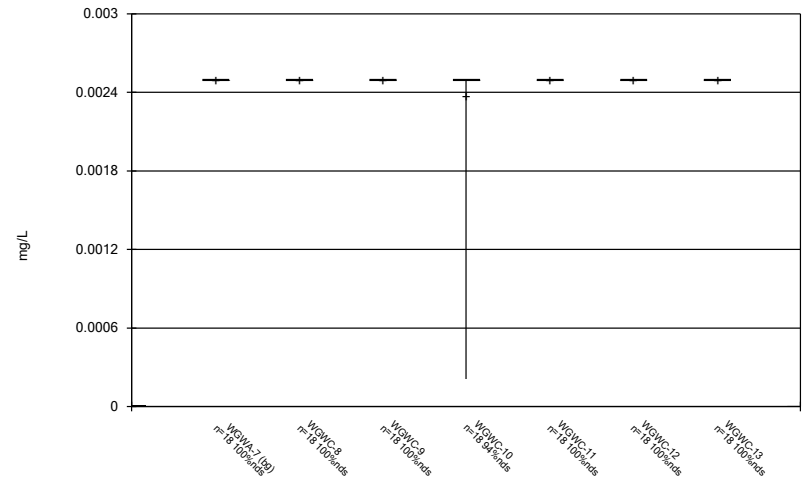
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Box & Whiskers Plot



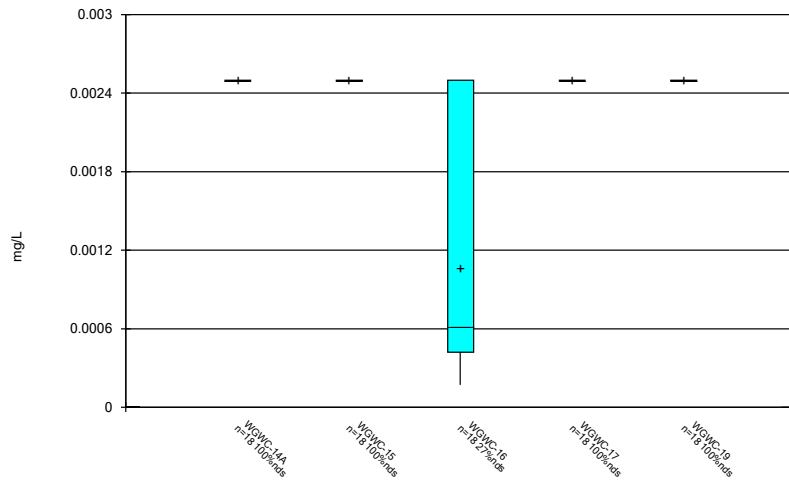
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



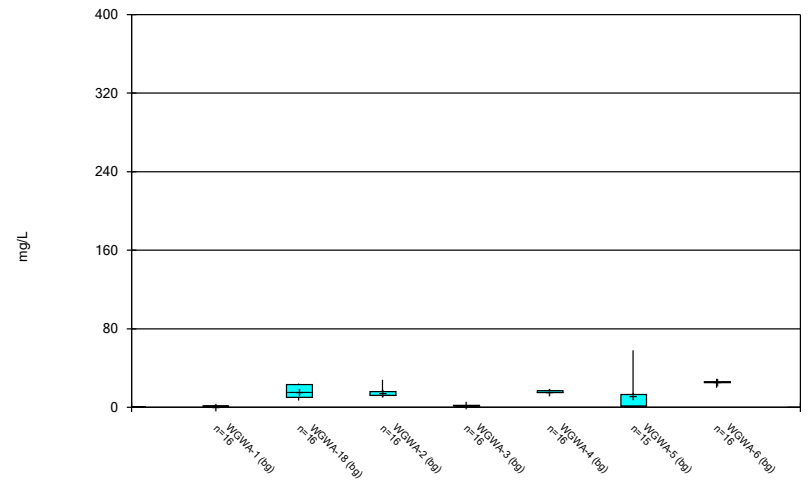
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



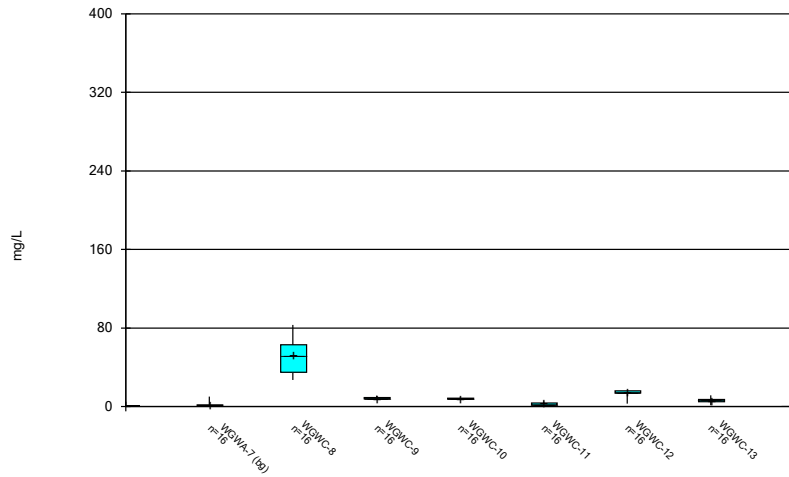
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Box & Whiskers Plot



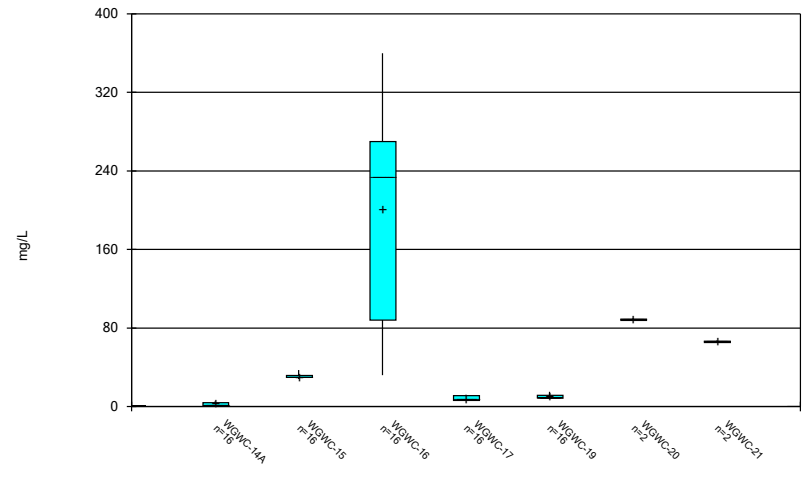
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Box & Whiskers Plot



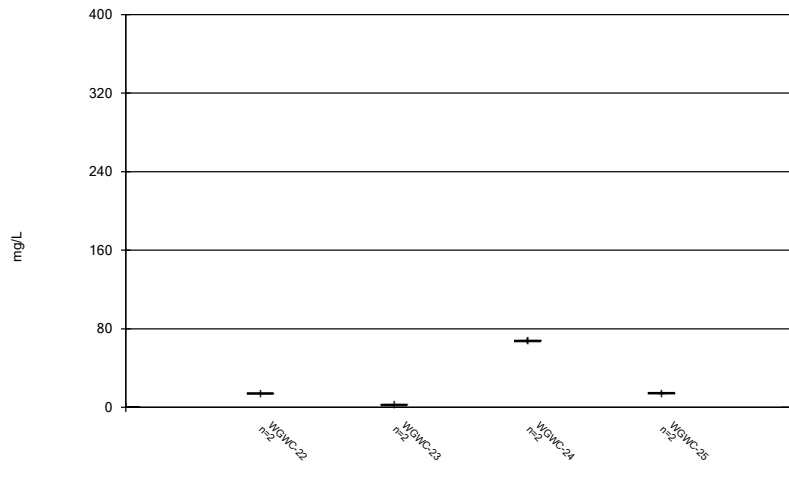
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Box & Whiskers Plot



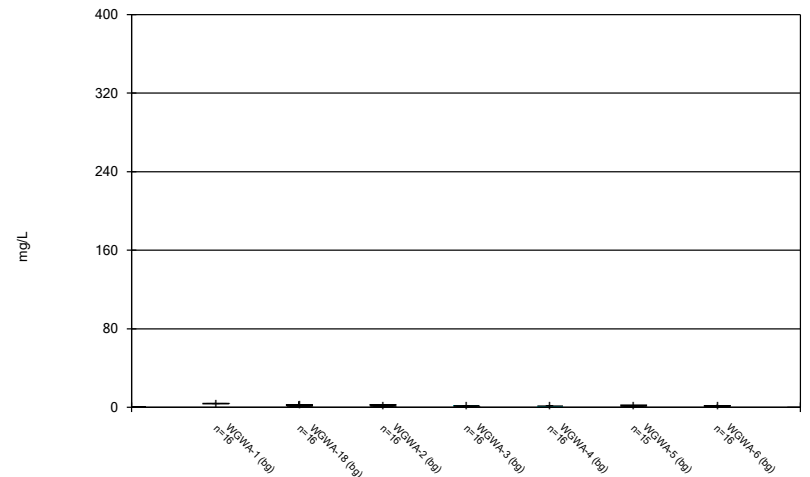
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Box & Whiskers Plot



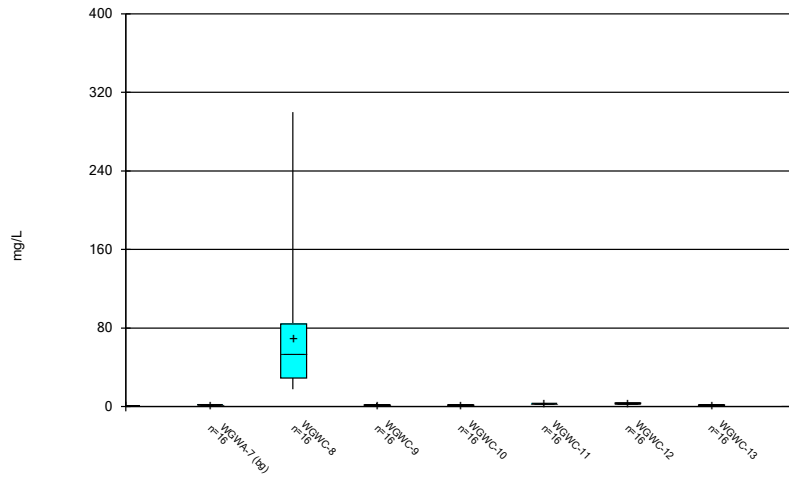
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Box & Whiskers Plot



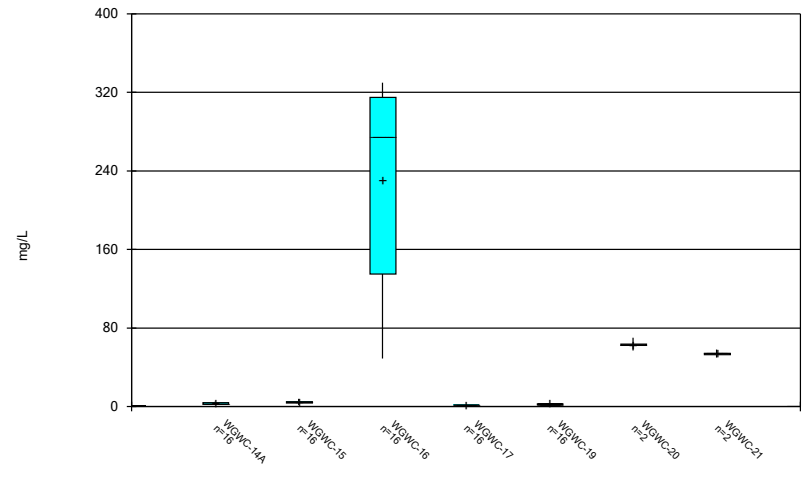
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



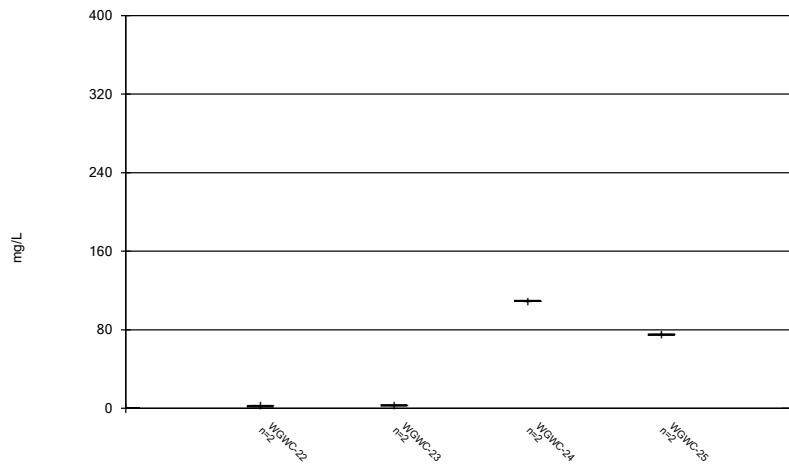
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



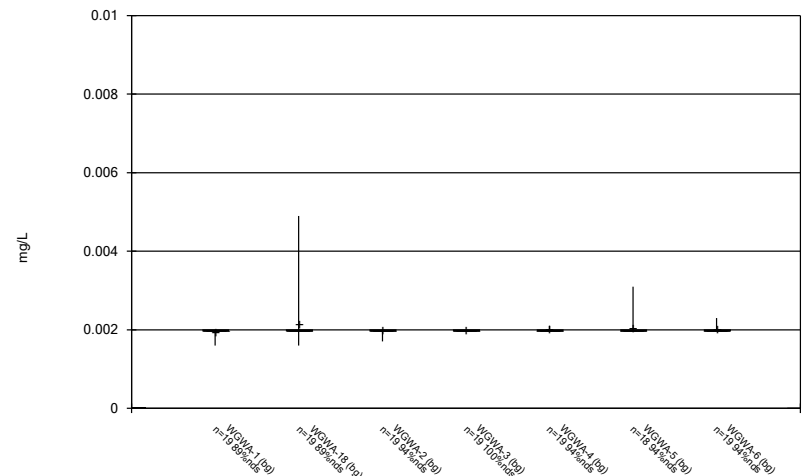
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



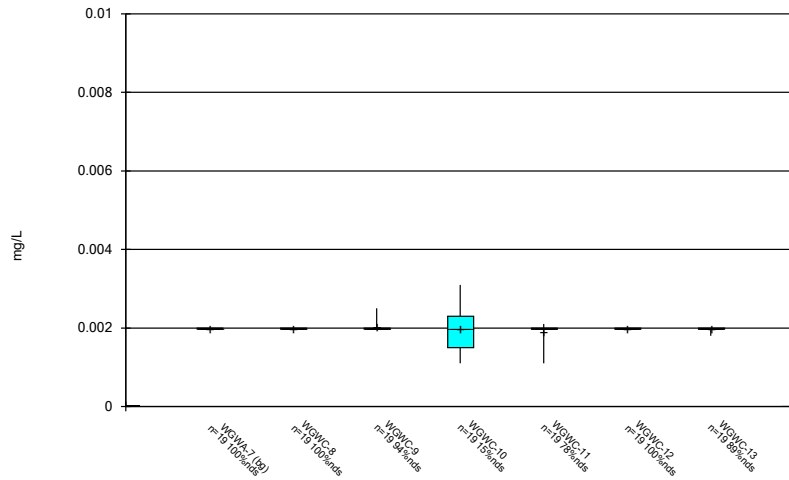
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



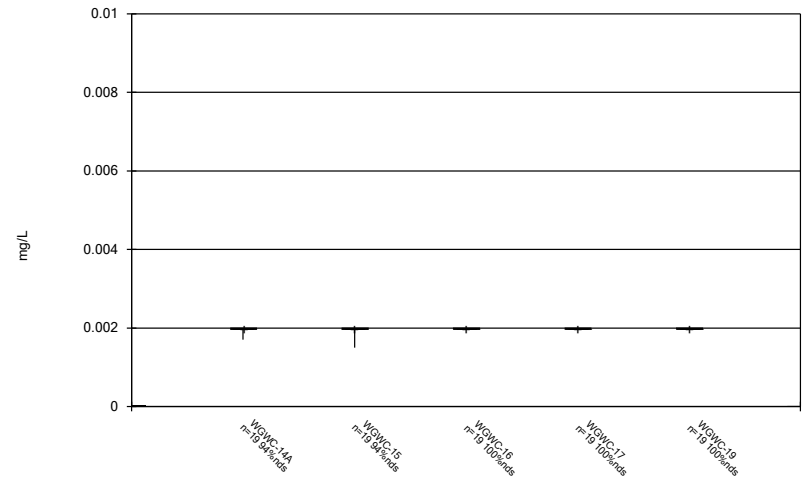
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



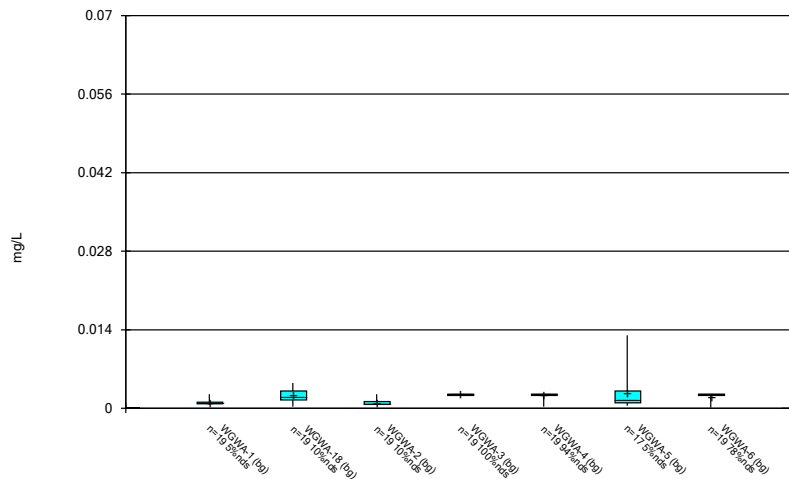
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



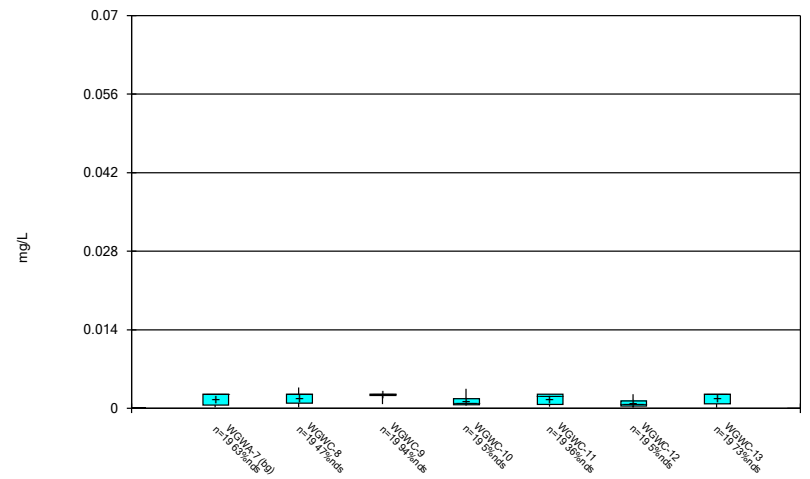
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



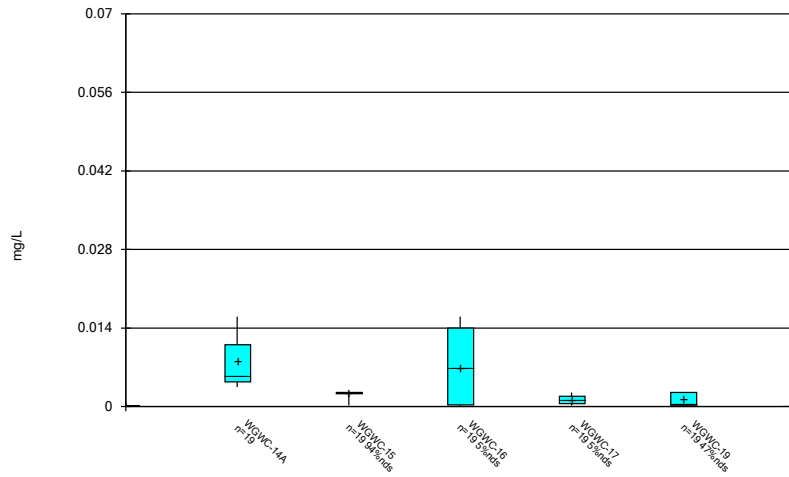
Constituent: Cobalt Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



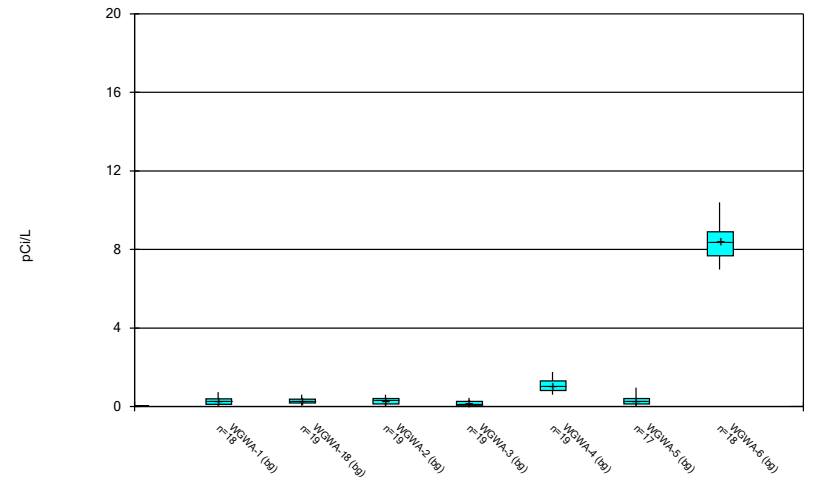
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



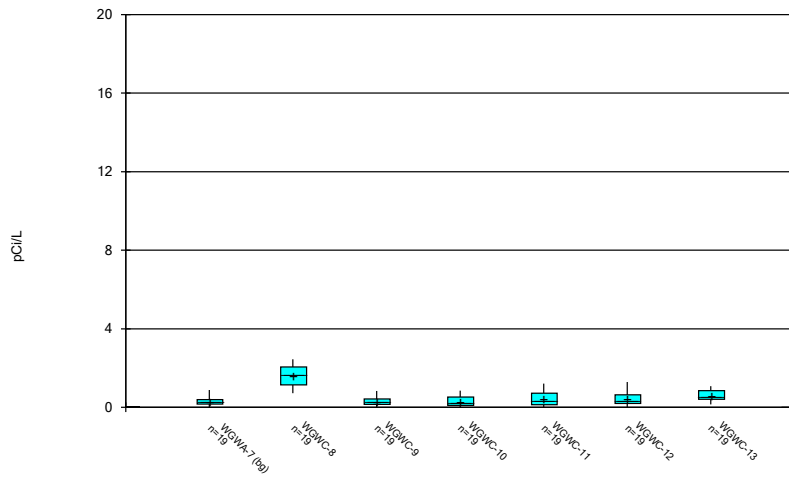
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



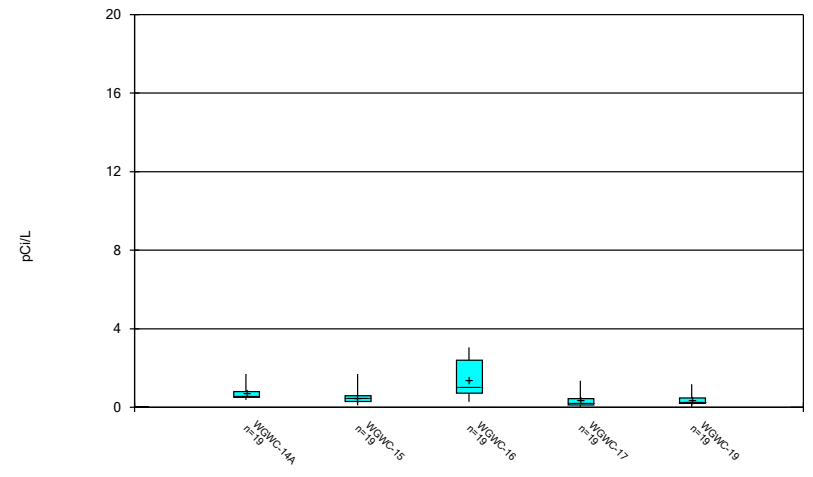
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



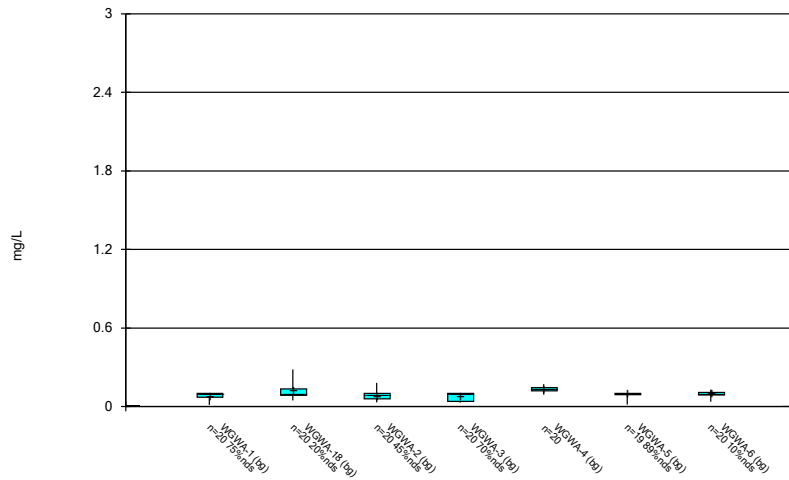
Constituent: Combined Radium 226 + 228 Analysis Run 5/11/2021 2:40 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



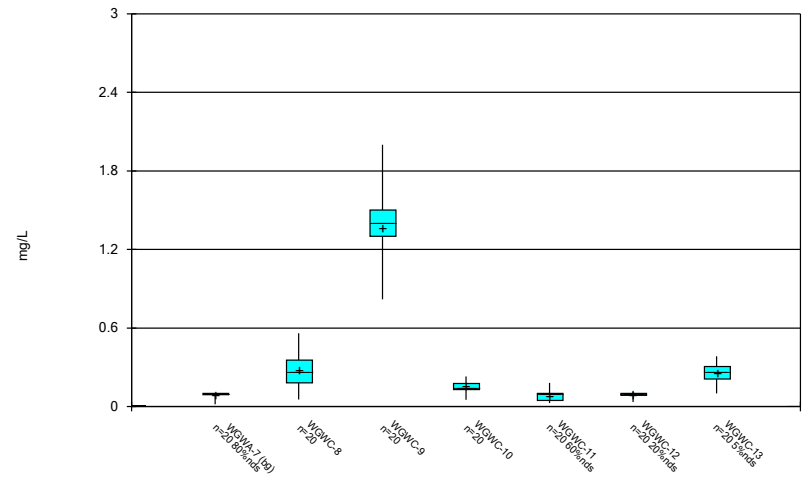
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



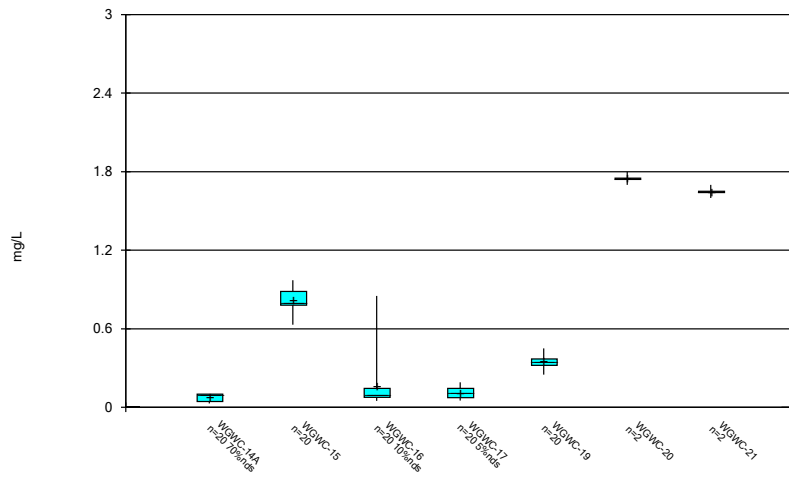
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



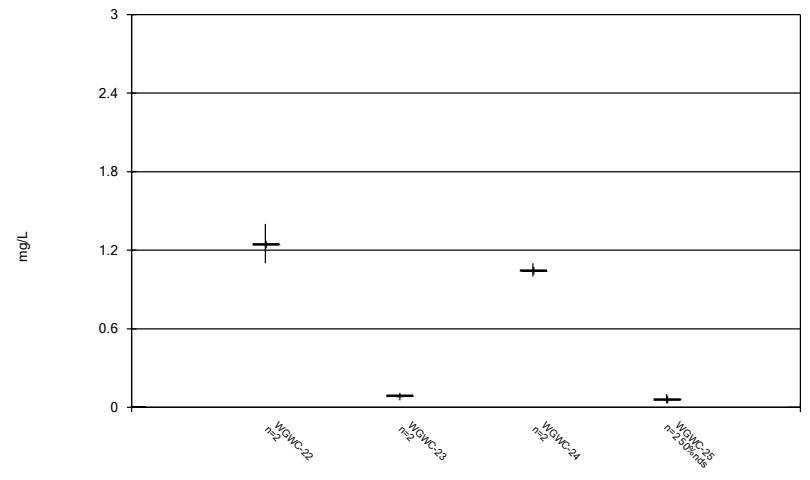
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



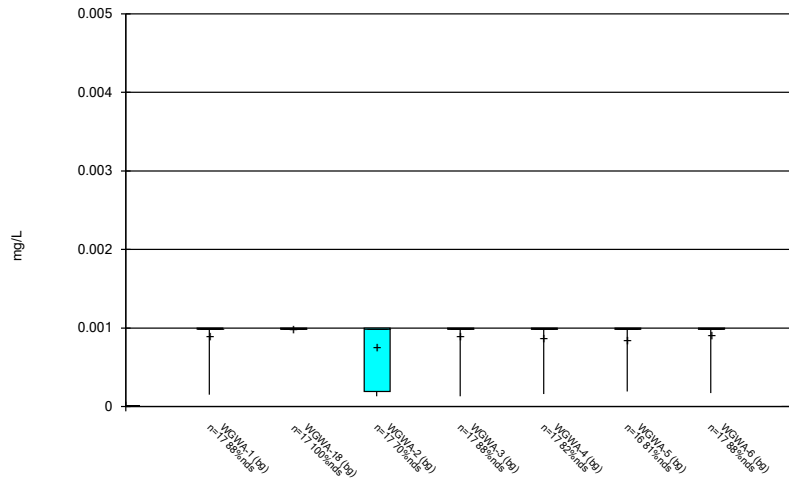
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



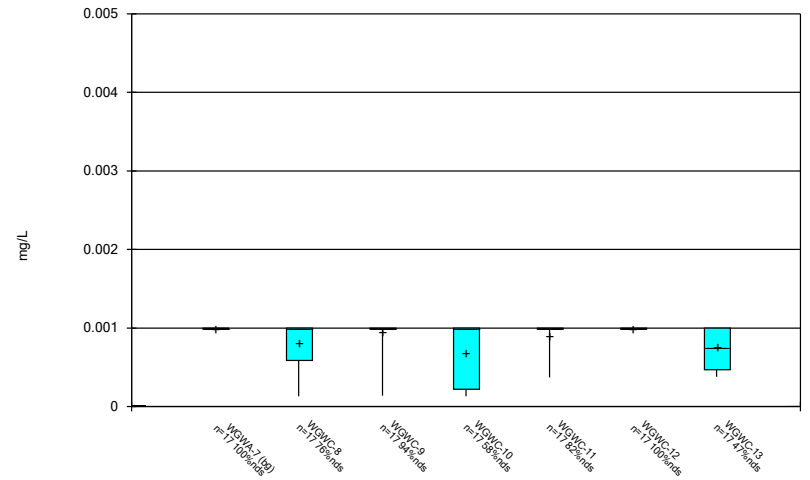
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



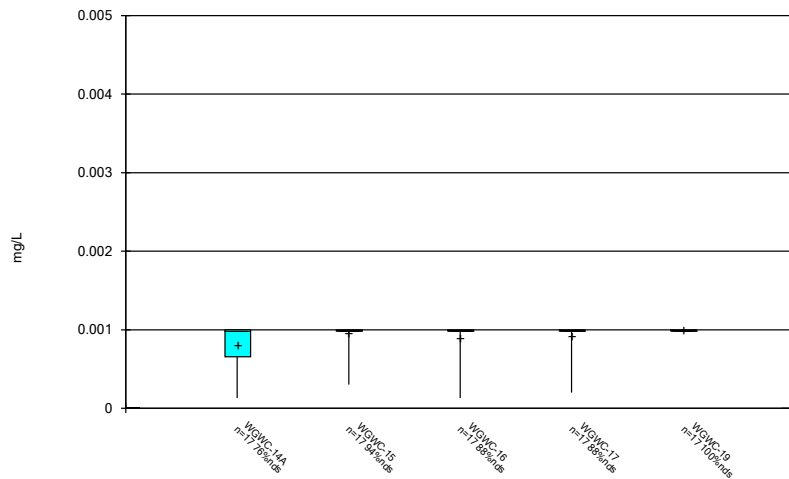
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



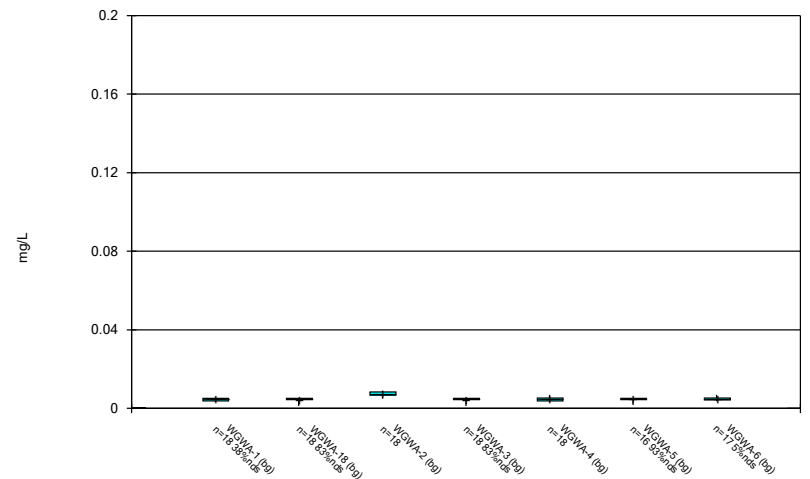
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



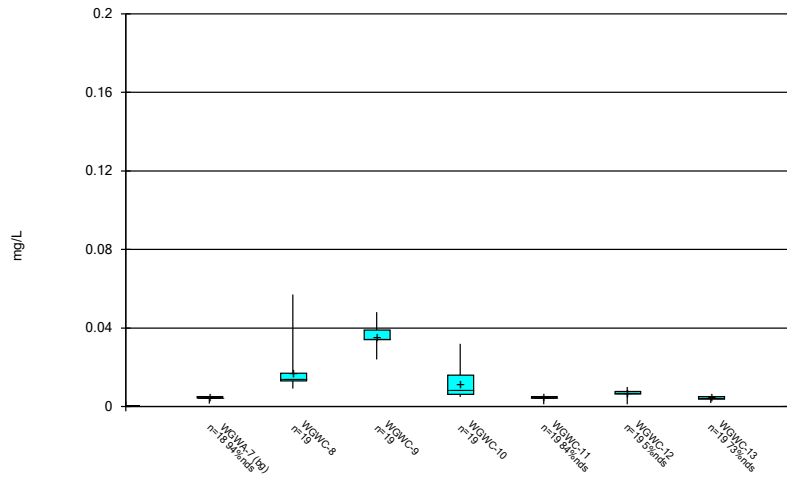
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



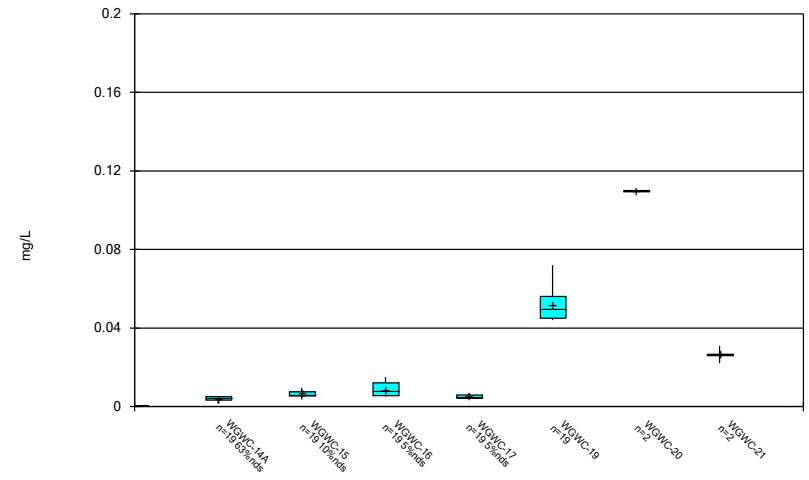
Constituent: Lithium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



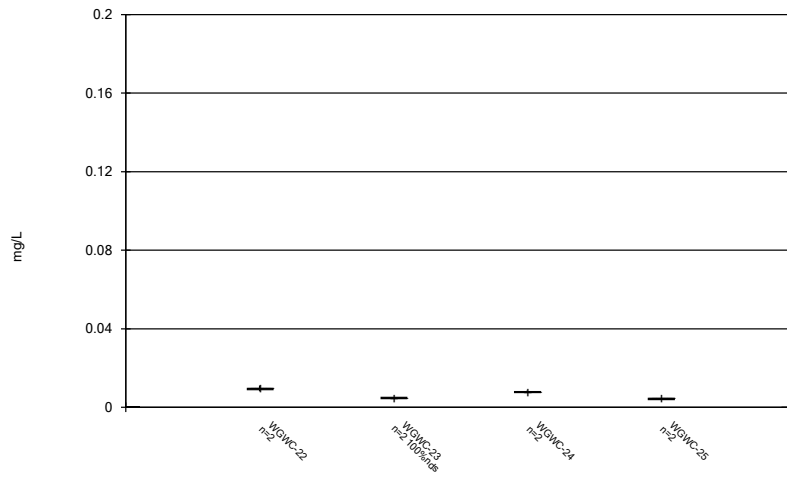
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



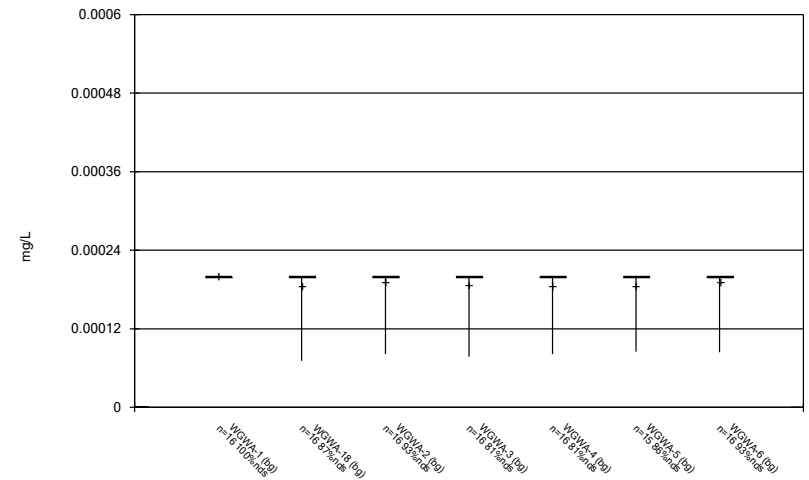
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



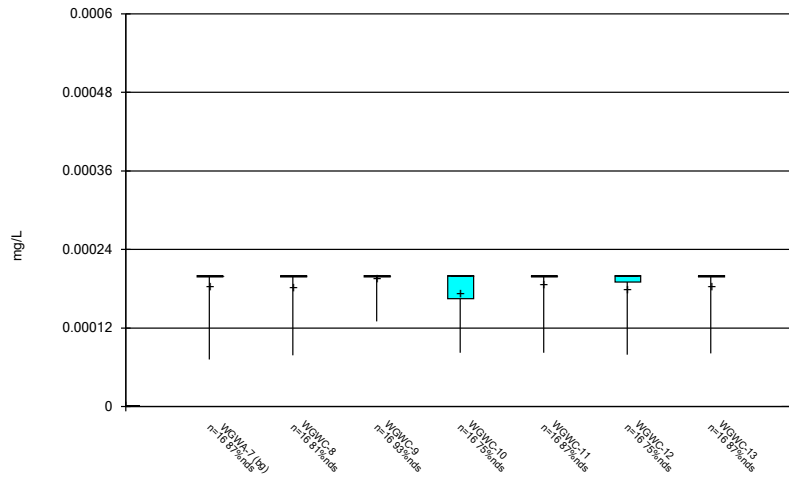
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



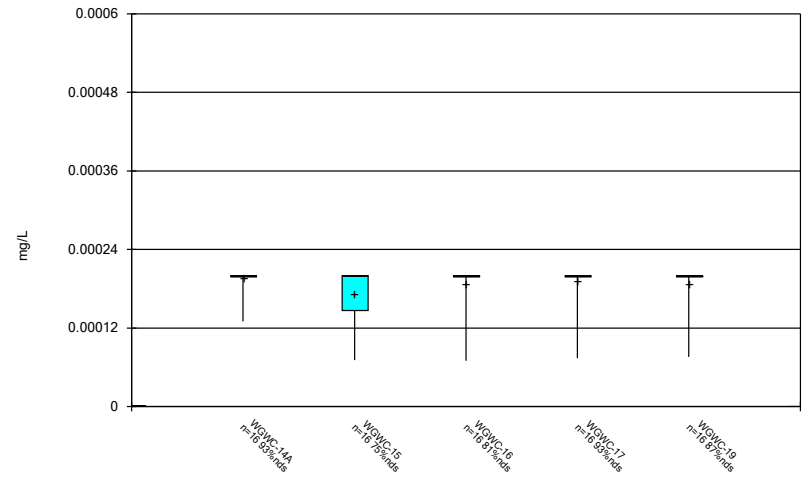
Constituent: Mercury Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



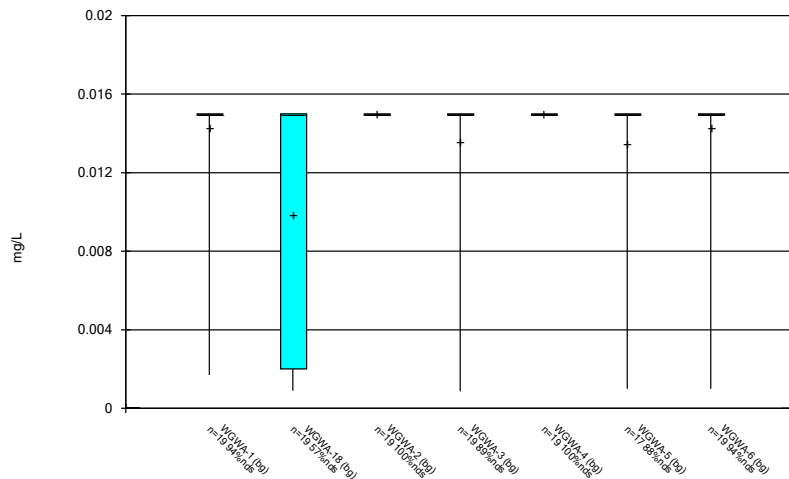
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



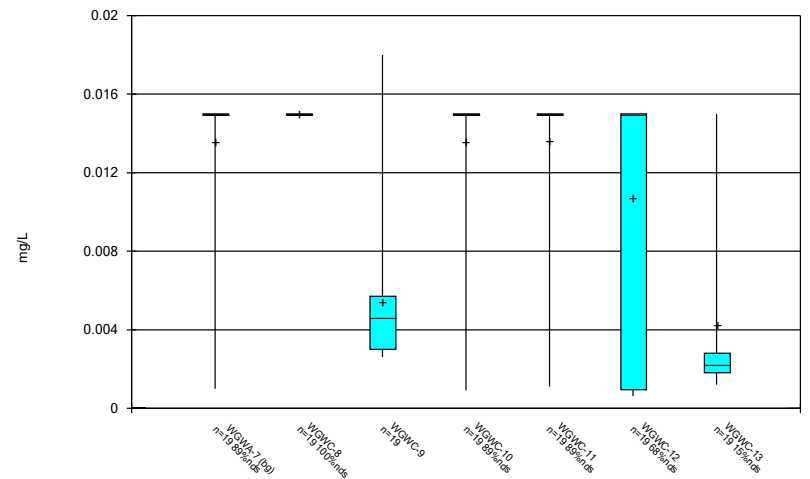
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



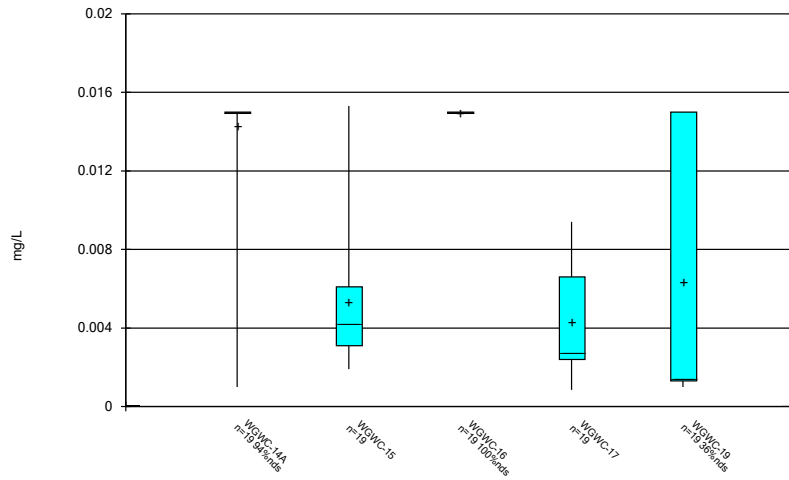
Constituent: Molybdenum Analysis Run 5/11/2021 2:40 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



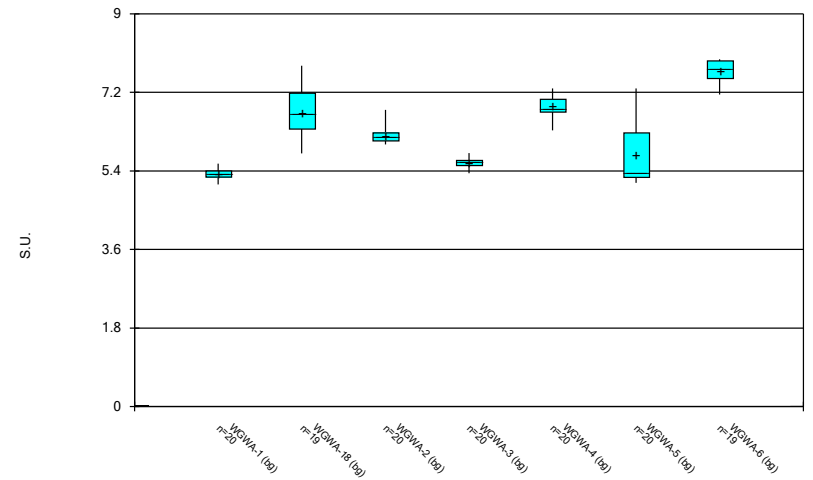
Constituent: Molybdenum Analysis Run 5/11/2021 2:40 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



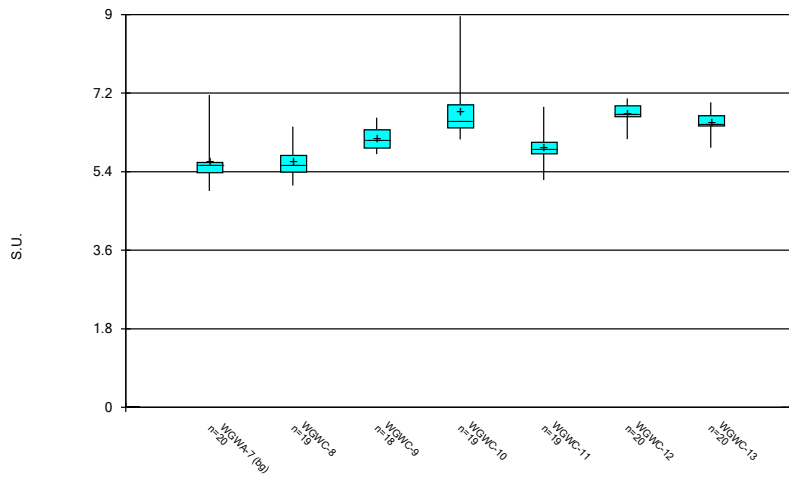
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



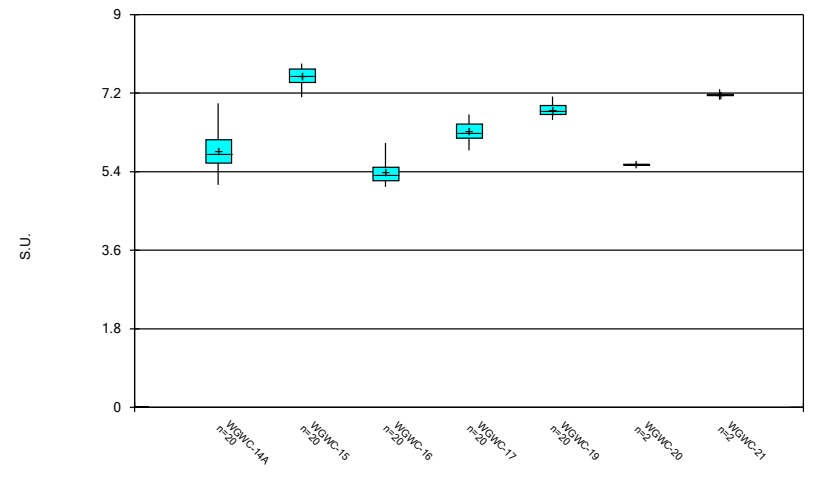
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



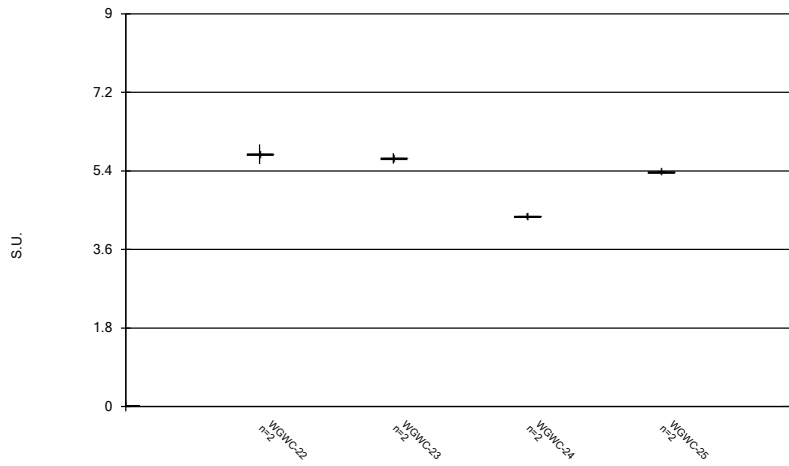
Constituent: pH, Field Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



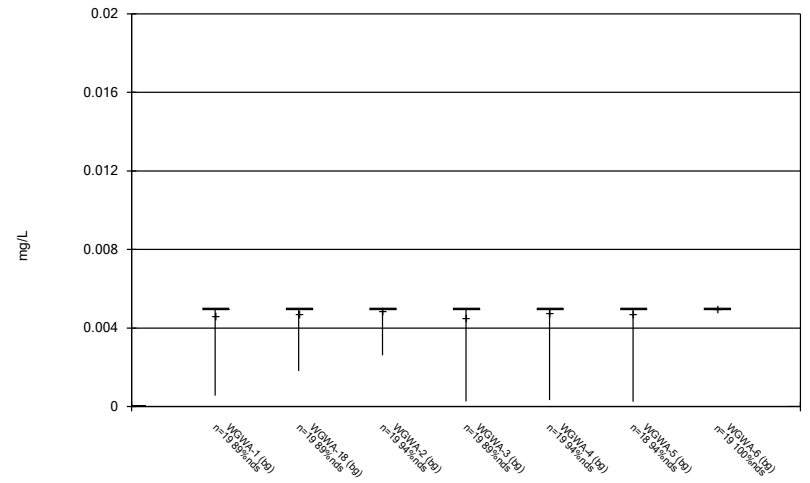
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



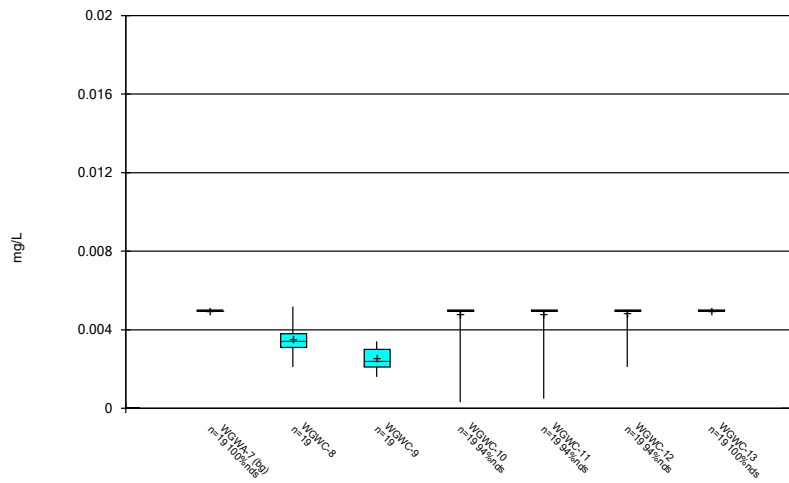
Constituent: pH, Field Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



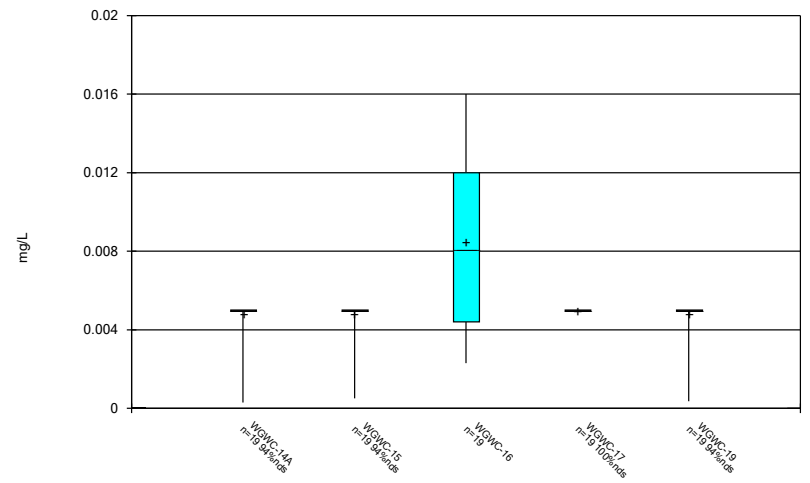
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



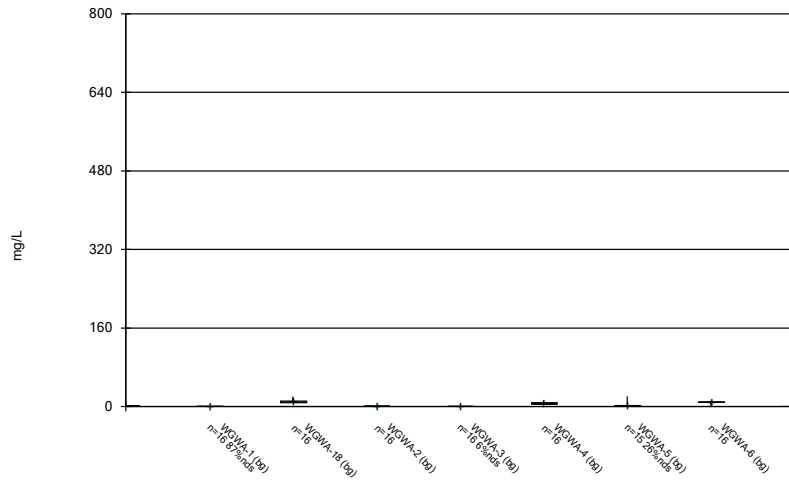
Constituent: Selenium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



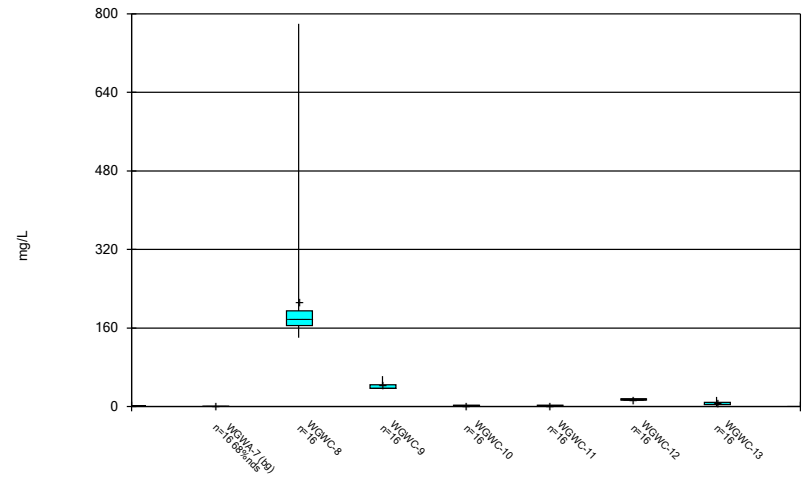
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



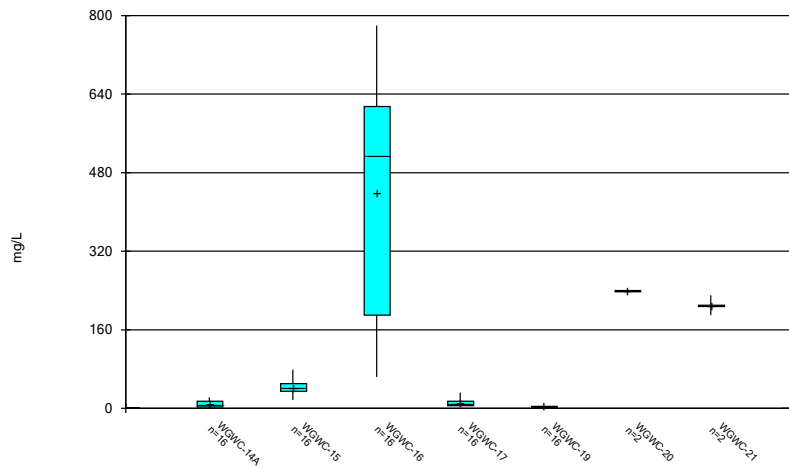
Constituent: Sulfate as SO4 Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



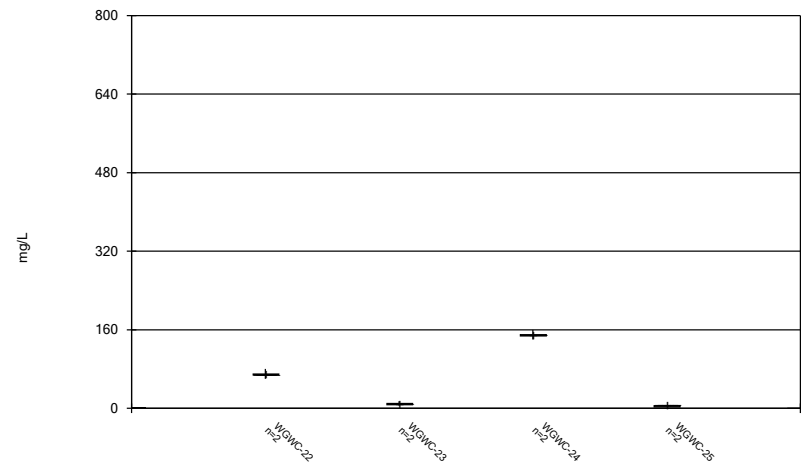
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



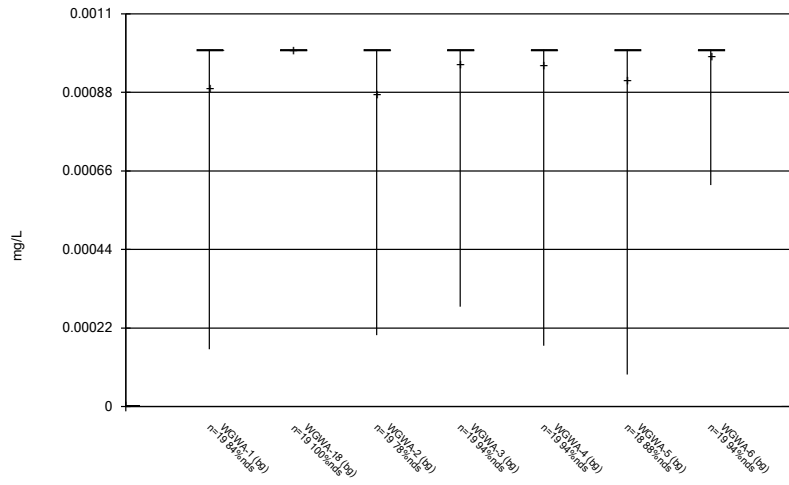
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



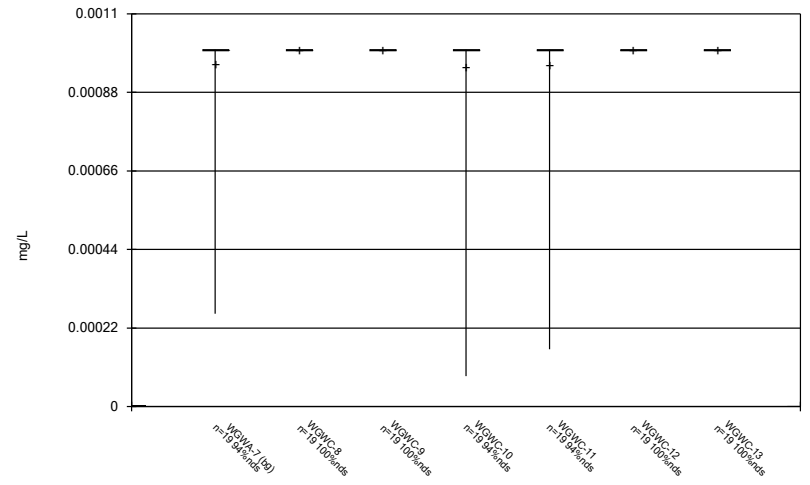
Constituent: Sulfate as SO4 Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



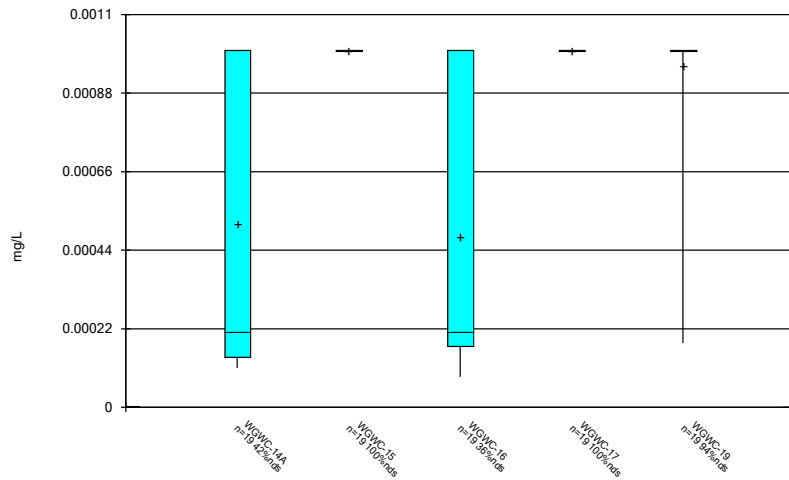
Constituent: Thallium Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



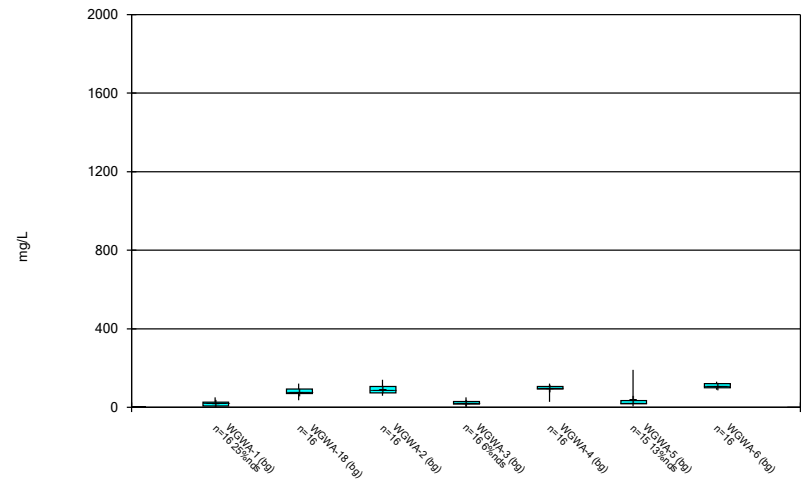
Constituent: Thallium Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



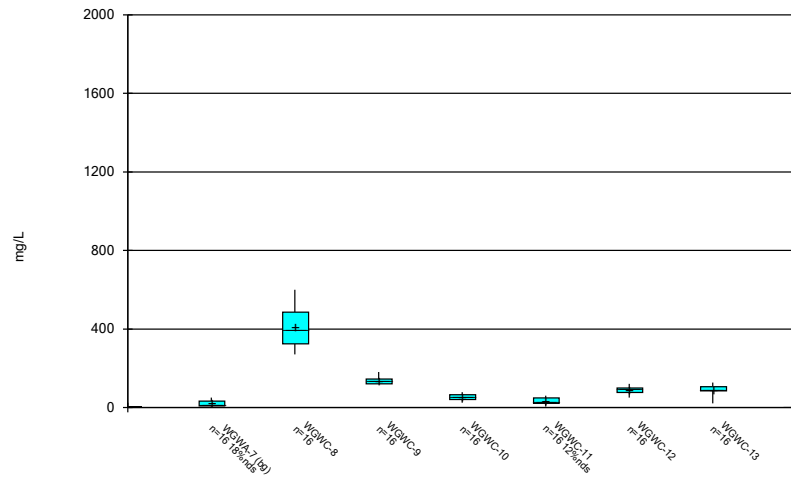
Constituent: Thallium Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



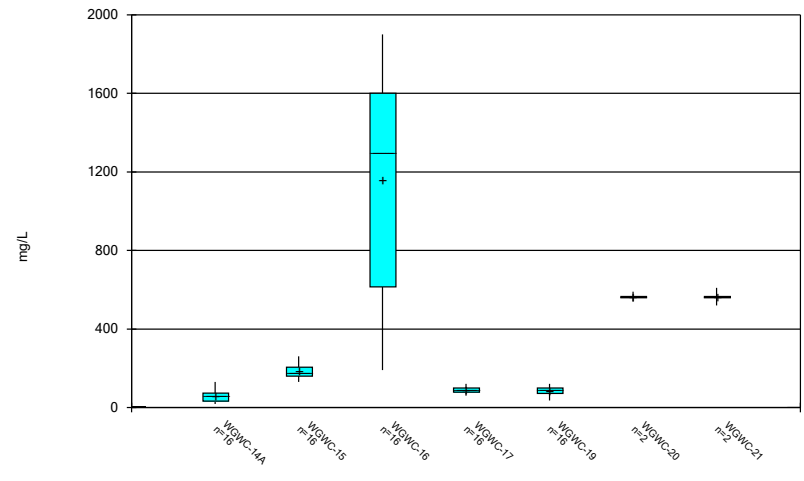
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



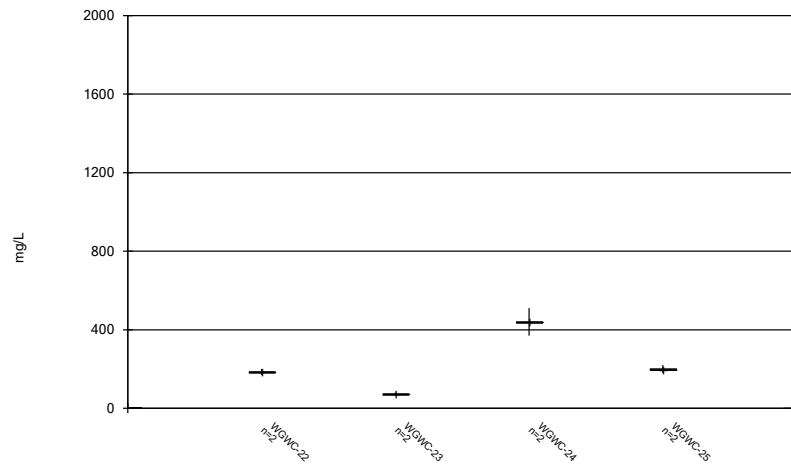
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE C.

Outlier Summary

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 12:13 PM

| Date | WGWA-5 Cobalt (mg/L) | WGWA-1 Combined Radium 226 + 228 (pCi/L) | WGWA-6 Combined Radium 226 + 228 (pCi/L) | WGWA-1 Lithium (mg/L) | WGWA-18 Lithium (mg/L) | WGWA-2 Lithium (mg/L) | WGWA-3 Lithium (mg/L) | WGWA-4 Lithium (mg/L) | WGWA-5 Lithium (mg/L) | WGWA-6 Lithium (mg/L) |
|-----------|----------------------|--|--|-----------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 5/17/2016 | | | <0.05 (o) | <0.05 (o) | <0.05 (o) | | | | | |
| 5/18/2016 | | | | | | <0.05 (o) | <0.05 (o) | <0.05 (o) | <0.05 (o) | |
| 7/19/2016 | 7.25 (o) | | | | | | | | | |
| 9/14/2016 | | | | | | | | | | |
| 1/19/2017 | 0.064 (O) | | | | | | | | | |
| 3/14/2017 | | 0.589 (O) | | | | | | | | |
| 9/16/2019 | | | | | | | | 0.028 (o) | 0.032 (o) | |

| Date | WGWA-7 Lithium (mg/L) | WGWA-5 Molybdenum (mg/L) |
|-----------|-----------------------|--------------------------|
| 5/17/2016 | | |
| 5/18/2016 | <0.05 (o) | |
| 7/19/2016 | | |
| 9/14/2016 | 0.016 (o) | |
| 1/19/2017 | | |
| 3/14/2017 | | |
| 9/16/2019 | | |

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:04 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------------|---------|------------|------------|-----------|---------|------|------|---------|-----------|-------|---------|-----------|------------|-----------------------------|
| Boron (mg/L) | WGWC-16 | 0.08 | n/a | 3/11/2021 | 1.1 | Yes | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-8 | 0.08 | n/a | 3/11/2021 | 2.4 | Yes | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-9 | 0.08 | n/a | 3/12/2021 | 0.64 | Yes | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | WGWC-8 | 58 | n/a | 3/11/2021 | 83 | Yes | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-16 | 6.05 | n/a | 3/11/2021 | 49 | Yes | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-8 | 6.05 | n/a | 3/11/2021 | 110 | Yes | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-15 | 0.284 | n/a | 3/12/2021 | 0.88 | Yes | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-19 | 0.284 | n/a | 3/11/2021 | 0.31 | Yes | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-9 | 0.284 | n/a | 3/12/2021 | 0.98 | Yes | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-16 | 21 | n/a | 3/11/2021 | 64 | Yes | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-8 | 21 | n/a | 3/11/2021 | 220 | Yes | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-9 | 21 | n/a | 3/12/2021 | 62 | Yes | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-8 | 190 | n/a | 3/11/2021 | 530 | Yes | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |

Appendix III Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:04 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|------------------------|----------------|--------------|------------|------------------|-------------|------------|------------|------------|------------|--------------|------------|------------|-------------------|------------------------------------|
| Boron (mg/L) | WGWC-10 | 0.08 | n/a | 3/11/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-11 | 0.08 | n/a | 3/12/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-12 | 0.08 | n/a | 3/12/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-13 | 0.08 | n/a | 3/11/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-14A | 0.08 | n/a | 3/11/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-15 | 0.08 | n/a | 3/12/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-16 | 0.08 | n/a | 3/11/2021 | 1.1 | Yes | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-17 | 0.08 | n/a | 3/11/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-19 | 0.08 | n/a | 3/11/2021 | 0.08ND | No | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-8 | 0.08 | n/a | 3/11/2021 | 2.4 | Yes | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | WGWC-9 | 0.08 | n/a | 3/12/2021 | 0.64 | Yes | 127 | n/a | n/a | 98.43 | n/a | n/a | 0.0001223 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | WGWC-10 | 58 | n/a | 3/11/2021 | 7.9 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-11 | 58 | n/a | 3/12/2021 | 1.6 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-12 | 58 | n/a | 3/12/2021 | 15 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-13 | 58 | n/a | 3/11/2021 | 4 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-14A | 58 | n/a | 3/11/2021 | 0.79 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-15 | 58 | n/a | 3/12/2021 | 31 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-16 | 58 | n/a | 3/11/2021 | 32 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-17 | 58 | n/a | 3/11/2021 | 5.7 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-19 | 58 | n/a | 3/11/2021 | 15 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-8 | 58 | n/a | 3/11/2021 | 83 | Yes | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | WGWC-9 | 58 | n/a | 3/12/2021 | 11 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-10 | 6.05 | n/a | 3/11/2021 | 1.7 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-11 | 6.05 | n/a | 3/12/2021 | 3.6 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-12 | 6.05 | n/a | 3/12/2021 | 3.5 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-13 | 6.05 | n/a | 3/11/2021 | 1.2 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-14A | 6.05 | n/a | 3/11/2021 | 2.6 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-15 | 6.05 | n/a | 3/12/2021 | 1.6 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-16 | 6.05 | n/a | 3/11/2021 | 49 | Yes | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-17 | 6.05 | n/a | 3/11/2021 | 1.3 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-19 | 6.05 | n/a | 3/11/2021 | 2.9 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-8 | 6.05 | n/a | 3/11/2021 | 110 | Yes | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | WGWC-9 | 6.05 | n/a | 3/12/2021 | 3.4 | No | 127 | n/a | n/a | 0 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-10 | 0.284 | n/a | 3/11/2021 | 0.15 | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-11 | 0.284 | n/a | 3/12/2021 | 0.044J | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-12 | 0.284 | n/a | 3/12/2021 | 0.096J | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-13 | 0.284 | n/a | 3/11/2021 | 0.18 | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-14A | 0.284 | n/a | 3/11/2021 | 0.04J | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-15 | 0.284 | n/a | 3/12/2021 | 0.88 | Yes | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-16 | 0.284 | n/a | 3/11/2021 | 0.061J | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-17 | 0.284 | n/a | 3/11/2021 | 0.05J | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-19 | 0.284 | n/a | 3/11/2021 | 0.31 | Yes | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-8 | 0.284 | n/a | 3/11/2021 | 0.16 | No | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | WGWC-9 | 0.284 | n/a | 3/12/2021 | 0.98 | Yes | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.00007753 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-10 | 7.96 | 4.96 | 3/11/2021 | 6.56 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-11 | 7.96 | 4.96 | 3/12/2021 | 5.46 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-12 | 7.96 | 4.96 | 3/12/2021 | 6.66 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-13 | 7.96 | 4.96 | 3/11/2021 | 5.95 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-14A | 7.96 | 4.96 | 3/11/2021 | 5.1 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-15 | 7.96 | 4.96 | 3/12/2021 | 7.72 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-16 | 7.96 | 4.96 | 3/11/2021 | 5.21 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-17 | 7.96 | 4.96 | 3/11/2021 | 5.96 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-19 | 7.96 | 4.96 | 3/11/2021 | 7.12 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-8 | 7.96 | 4.96 | 3/11/2021 | 5.35 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |
| pH (S.U.) | WGWC-9 | 7.96 | 4.96 | 3/12/2021 | 5.88 | No | 158 | n/a | n/a | 0 | n/a | n/a | 0.0001574 | NP Inter (normality) 1 of 2 |

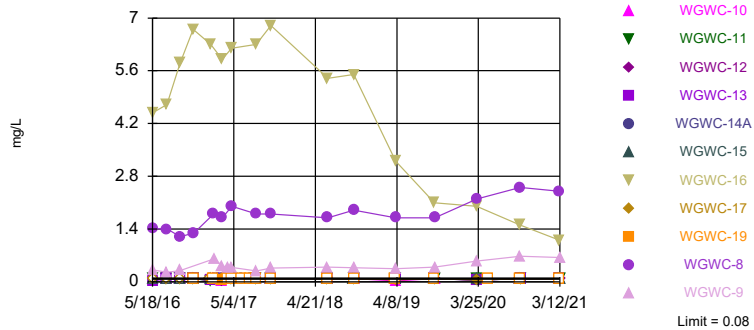
Appendix III Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:04 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------------------|----------------|------------|------------|------------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------------|------------------------------------|
| Sulfate (mg/L) | WGWC-10 | 21 | n/a | 3/11/2021 | 2.8 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-11 | 21 | n/a | 3/12/2021 | 2 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-12 | 21 | n/a | 3/12/2021 | 14 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-13 | 21 | n/a | 3/11/2021 | 2.9 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-14A | 21 | n/a | 3/11/2021 | 1.7 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-15 | 21 | n/a | 3/12/2021 | 19 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-16 | 21 | n/a | 3/11/2021 | 64 | Yes | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-17 | 21 | n/a | 3/11/2021 | 3.9 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-19 | 21 | n/a | 3/11/2021 | 4 | No | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-8 | 21 | n/a | 3/11/2021 | 220 | Yes | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | WGWC-9 | 21 | n/a | 3/12/2021 | 62 | Yes | 127 | n/a | n/a | 23.62 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-10 | 190 | n/a | 3/11/2021 | 52 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-11 | 190 | n/a | 3/12/2021 | 27 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-12 | 190 | n/a | 3/12/2021 | 78 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-13 | 190 | n/a | 3/11/2021 | 63 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-14A | 190 | n/a | 3/11/2021 | 24 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-15 | 190 | n/a | 3/12/2021 | 130 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-16 | 190 | n/a | 3/11/2021 | 190 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-17 | 190 | n/a | 3/11/2021 | 75 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-19 | 190 | n/a | 3/11/2021 | 100 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-8 | 190 | n/a | 3/11/2021 | 530 | Yes | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | WGWC-9 | 190 | n/a | 3/12/2021 | 130 | No | 127 | n/a | n/a | 7.874 | n/a | n/a | 0.0001223 | NP Inter (normality) 1 of 2 |

Exceeds Limit: WGWC-16, WGWC-8, WGWC-9

Prediction Limit
Interwell Non-parametric

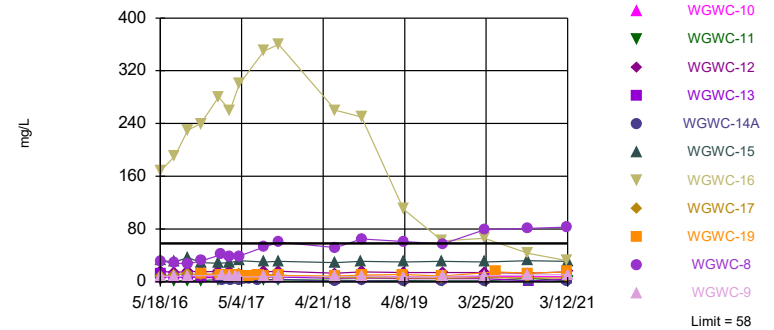


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 127 background values. 98.43% NDs. Annual per-constituent alpha = 0.002686. Individual comparison alpha = 0.0001223 (1 of 2). Comparing 11 points to limit.

Constituent: Boron Analysis Run 5/11/2021 1:03 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-8

Prediction Limit
Interwell Non-parametric

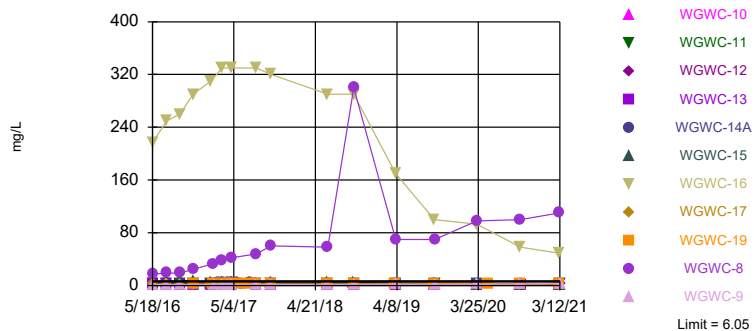


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 127 background values. Annual per-constituent alpha = 0.002686. Individual comparison alpha = 0.0001223 (1 of 2). Comparing 11 points to limit.

Constituent: Calcium Analysis Run 5/11/2021 1:03 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-8

Prediction Limit
Interwell Non-parametric

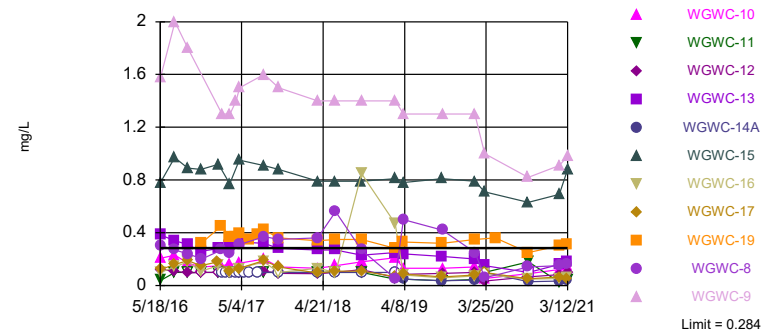


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 127 background values. Annual per-constituent alpha = 0.002686. Individual comparison alpha = 0.0001223 (1 of 2). Comparing 11 points to limit.

Constituent: Chloride Analysis Run 5/11/2021 1:03 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-15, WGWC-19, WGWC-9

Prediction Limit
Interwell Non-parametric

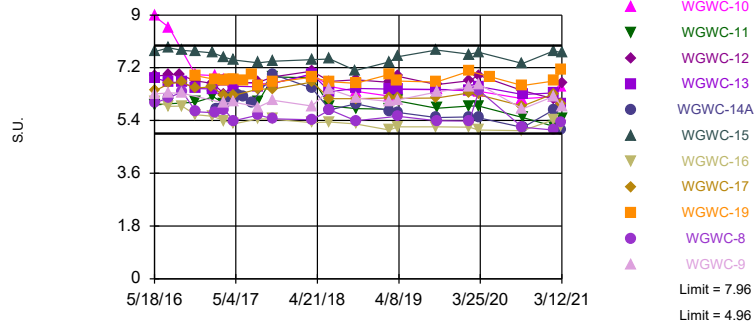


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 159 background values. 48.43% NDs. Annual per-constituent alpha = 0.001704. Individual comparison alpha = 0.00007753 (1 of 2). Comparing 11 points to limit.

Constituent: Fluoride Analysis Run 5/11/2021 1:03 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

Prediction Limit
Interwell Non-parametric

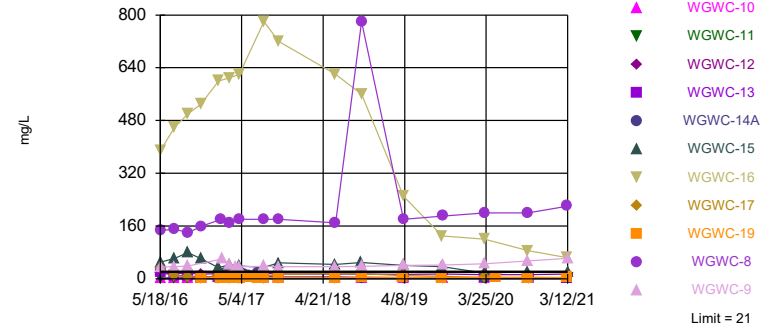


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 158 background values. Annual per-constituent alpha = 0.003459. Individual comparison alpha = 0.0001574 (1 of 2). Comparing 11 points to limit.

Constituent: pH Analysis Run 5/11/2021 1:03 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-8, WGWC-9

Prediction Limit
Interwell Non-parametric

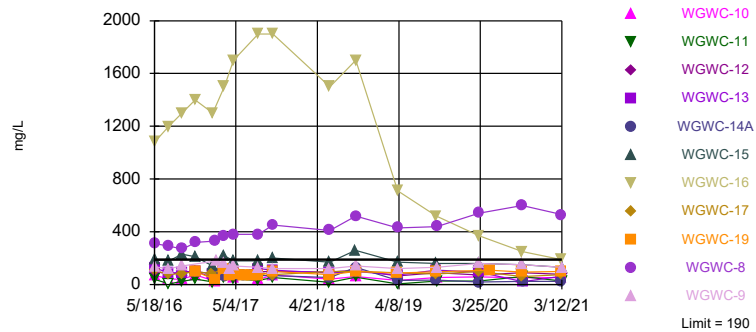


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 127 background values. 23.62% NDs. Annual per-constituent alpha = 0.002686. Individual comparison alpha = 0.0001223 (1 of 2). Comparing 11 points to limit.

Constituent: Sulfate Analysis Run 5/11/2021 1:03 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-8

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 127 background values. 7.874% NDs. Annual per-constituent alpha = 0.002686. Individual comparison alpha = 0.0001223 (1 of 2). Comparing 11 points to limit.

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:03 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-2 (bg) | WGWA-18 (bg) | WGWA-6 (bg) | WGWA-3 (bg) | WGWC-16 | WGWA-7 (bg) | WGWC-17 | WGWA-4 (bg) |
|------------|-------------|-------------|--------------|-------------|-------------|---------|-------------|-----------|-------------|
| 5/17/2016 | <0.08 | <0.08 | <0.08 | | | | | | |
| 5/18/2016 | | | | <0.08 | <0.08 | 4.48 | <0.08 | <0.08 | <0.08 |
| 5/19/2016 | | | | | | | | | |
| 7/19/2016 | <0.08 | <0.08 | <0.08 | <0.08 | | 4.7 | <0.08 | | |
| 7/20/2016 | | | | | <0.08 | | | <0.08 | <0.08 |
| 9/13/2016 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | | <0.08 | | <0.08 |
| 9/14/2016 | | | | | | 5.8 | | <0.08 | |
| 9/15/2016 | | | | | | | | | |
| 11/9/2016 | <0.08 | <0.08 | <0.08 | <0.08 | | | | | |
| 11/10/2016 | | | | | <0.08 | 6.7 | <0.08 | <0.08 | <0.08 |
| 11/11/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 1/17/2017 | <0.08 | <0.08 | | | | | | | |
| 1/18/2017 | | | | <0.08 | <0.08 | | <0.08 | | <0.08 |
| 1/19/2017 | | | <0.08 | | | | | | |
| 1/20/2017 | | | | | | | | <0.08 | |
| 1/24/2017 | | | | | | 6.3 | | | |
| 1/27/2017 | | | | | | | | | |
| 2/6/2017 | | | | | | | | | |
| 2/8/2017 | | | | | | | | | |
| 2/9/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 3/13/2017 | <0.08 | <0.08 | | | | | | | |
| 3/14/2017 | | | <0.08 | <0.08 | <0.08 | | <0.08 | <0.08 | <0.08 |
| 3/15/2017 | | | | | | 5.9 | | | |
| 3/17/2017 | | | | | | | | | |
| 4/11/2017 | | | | | | | | | |
| 4/24/2017 | <0.08 | <0.08 | | | | | | | |
| 4/25/2017 | | | <0.08 | <0.08 | <0.08 | 6.2 | <0.08 | <0.08 | <0.08 |
| 4/26/2017 | | | | | | | | | |
| 5/17/2017 | | | | | | | | | |
| 6/7/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 8/8/2017 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | | <0.08 | | |
| 8/9/2017 | | | | | | 6.3 | | <0.08 | <0.08 |
| 8/10/2017 | | | | | | | | | |
| 10/10/2017 | <0.08 | <0.08 | | | | | | | |
| 10/11/2017 | | | <0.08 | <0.08 | <0.08 | 6.8 | <0.08 | <0.08 | <0.08 |
| 10/12/2017 | | | | | | | | | |
| 6/13/2018 | <0.08 | | <0.08 | <0.08 | | | | | |
| 6/14/2018 | | <0.08 | | | <0.08 | 5.4 | <0.08 | <0.08 | <0.08 |
| 9/24/2018 | | <0.08 | | | | | | | |
| 9/27/2018 | <0.08 | | | | | | | | |
| 9/28/2018 | | | <0.08 | | | | | | |
| 10/2/2018 | | | | <0.08 | | | | | |
| 10/3/2018 | | | | | <0.08 | | <0.08 | | <0.08 |
| 10/4/2018 | | | | | | 5.5 | | <0.08 | |
| 4/1/2019 | <0.08 | <0.08 | | | | | | | |
| 4/2/2019 | | | <0.08 | <0.08 | <0.08 | | <0.08 | | <0.08 |
| 4/3/2019 | | | | | | | | | |
| 4/4/2019 | | | | | | 3.2 | | 0.049 (J) | |
| 9/16/2019 | <0.08 | | | <0.08 | | | | | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-10 | WGWC-15 | WGWA-5 (bg) | WGWC-8 | WGWC-13 | WGWC-12 | WGWC-9 | WGWC-11 | WGWC-19 |
|------------|-----------|---------|-------------|--------|------------|-----------|--------|-----------|-----------|
| 5/17/2016 | | | | | | | | | |
| 5/18/2016 | <0.08 | <0.08 | <0.08 | | | | | | |
| 5/19/2016 | | | | 1.42 | 0.0252 (J) | <0.08 | 0.314 | <0.08 | |
| 7/19/2016 | | <0.08 | <0.08 | | | | | | |
| 7/20/2016 | <0.08 | | | 1.4 | <0.08 | <0.08 | 0.25 | <0.08 | |
| 9/13/2016 | | | | | | | | | |
| 9/14/2016 | <0.08 | <0.08 | <0.08 | | <0.08 | <0.08 | 0.3 | <0.08 | |
| 9/15/2016 | | | | 1.2 | | | | | |
| 11/9/2016 | | | | | | | | | |
| 11/10/2016 | | <0.08 | | | <0.08 | | | | |
| 11/11/2016 | <0.08 | | | | | <0.08 | | <0.08 | <0.08 |
| 11/14/2016 | | | | 1.3 | | | | | |
| 1/17/2017 | | | | | | | | | |
| 1/18/2017 | | | | | | | | | |
| 1/19/2017 | | | <0.08 | | | | | | |
| 1/20/2017 | | | | | | | | | |
| 1/24/2017 | | <0.08 | | | | | | | |
| 1/27/2017 | | | | | 0.033 (J) | 0.047 (J) | | 0.021 (J) | |
| 2/6/2017 | <0.08 | | | 1.8 | | | | | <0.08 |
| 2/8/2017 | | | | | | | | | |
| 2/9/2017 | | | | | | | 0.61 | | |
| 2/23/2017 | | | | | | | | | |
| 3/13/2017 | | | | | | | | | |
| 3/14/2017 | | <0.08 | <0.08 | | | | | | |
| 3/15/2017 | 0.032 (J) | | | 1.7 | <0.08 | 0.024 (J) | 0.42 | 0.058 | 0.034 (J) |
| 3/17/2017 | | | | | | | | | |
| 4/11/2017 | | | | | | | 0.37 | | <0.08 |
| 4/24/2017 | | | | | | | | | |
| 4/25/2017 | | <0.08 | <0.08 | | | | | | |
| 4/26/2017 | <0.08 | | | 2 | <0.08 | <0.08 | 0.38 | <0.08 | <0.08 |
| 5/17/2017 | | | | | | | | | |
| 6/7/2017 | | | | | | | | | <0.08 |
| 7/11/2017 | | | | | | | | | <0.08 |
| 8/8/2017 | | | | | | | | | |
| 8/9/2017 | | <0.08 | <0.08 | | <0.08 | | | | |
| 8/10/2017 | <0.08 | | | 1.8 | | <0.08 | 0.29 | <0.08 | <0.08 |
| 10/10/2017 | | | | | | | | | |
| 10/11/2017 | | <0.08 | <0.08 | | | | | | |
| 10/12/2017 | <0.08 | | | 1.8 | <0.08 | <0.08 | 0.36 | <0.08 | <0.08 |
| 6/13/2018 | | | <0.08 | | | | | | |
| 6/14/2018 | <0.08 | <0.08 | | 1.7 | <0.08 | <0.08 | 0.39 | <0.08 | <0.08 |
| 9/24/2018 | | | | | | | | | |
| 9/27/2018 | | | | | | | | | |
| 9/28/2018 | | | | | | | | | |
| 10/2/2018 | | | | | | | | | |
| 10/3/2018 | | <0.08 | <0.08 | | | | | | |
| 10/4/2018 | <0.08 | | | 1.9 | <0.08 | <0.08 | 0.37 | <0.08 | <0.08 |
| 4/1/2019 | | | | | | | | | |
| 4/2/2019 | | | <0.08 | | | | | | <0.08 |
| 4/3/2019 | | | | 1.7 | <0.08 | <0.08 | 0.35 | <0.08 | |
| 4/4/2019 | 0.024 (J) | <0.08 | | | | | | | |
| 9/16/2019 | | | <0.08 | | | | | | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-10 | WGWC-15 | WGWA-5 (bg) | WGWC-8 | WGWC-13 | WGWC-12 | WGWC-9 | WGWC-11 | WGWC-19 |
|-----------|-----------|-----------|-------------|--------|-----------|-----------|--------|---------|---------|
| 9/17/2019 | | | | | | | | | |
| 9/18/2019 | | <0.08 | | | <0.08 | | | | <0.08 |
| 9/19/2019 | <0.08 | | | 1.7 | | <0.08 | 0.39 | <0.08 | |
| 3/16/2020 | | | | | | | | | |
| 3/17/2020 | | | <0.08 | | | | | | |
| 3/18/2020 | 0.049 (J) | 0.071 (J) | | | | 0.039 (J) | | <0.08 | |
| 3/19/2020 | | | | 2.2 | 0.053 (J) | | 0.55 | | |
| 5/4/2020 | | | | | | | | | <0.08 |
| 9/21/2020 | | | | | | | | | |
| 9/22/2020 | | | <0.08 | 2.5 | | | | | |
| 9/23/2020 | <0.08 | <0.08 | | | | <0.08 | 0.68 | | <0.08 |
| 9/24/2020 | | | | | <0.08 | | | <0.08 | |
| 3/10/2021 | | | <0.08 | | | | | | |
| 3/11/2021 | <0.08 | | | 2.4 | <0.08 | | | | <0.08 |
| 3/12/2021 | | <0.08 | | | | <0.08 | 0.64 | <0.08 | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

| | |
|------------|-------|
| 5/17/2016 | |
| 5/18/2016 | |
| 5/19/2016 | |
| 7/19/2016 | |
| 7/20/2016 | |
| 9/13/2016 | |
| 9/14/2016 | |
| 9/15/2016 | |
| 11/9/2016 | |
| 11/10/2016 | |
| 11/11/2016 | |
| 11/14/2016 | |
| 1/17/2017 | |
| 1/18/2017 | |
| 1/19/2017 | |
| 1/20/2017 | |
| 1/24/2017 | |
| 1/27/2017 | |
| 2/6/2017 | |
| 2/8/2017 | <0.08 |
| 2/9/2017 | |
| 2/23/2017 | <0.08 |
| 3/13/2017 | |
| 3/14/2017 | |
| 3/15/2017 | |
| 3/17/2017 | <0.08 |
| 4/11/2017 | <0.08 |
| 4/24/2017 | |
| 4/25/2017 | |
| 4/26/2017 | <0.08 |
| 5/17/2017 | <0.08 |
| 6/7/2017 | <0.08 |
| 7/11/2017 | <0.08 |
| 8/8/2017 | |
| 8/9/2017 | |
| 8/10/2017 | |
| 10/10/2017 | |
| 10/11/2017 | <0.08 |
| 10/12/2017 | |
| 6/13/2018 | |
| 6/14/2018 | <0.08 |
| 9/24/2018 | |
| 9/27/2018 | |
| 9/28/2018 | |
| 10/2/2018 | |
| 10/3/2018 | |
| 10/4/2018 | <0.08 |
| 4/1/2019 | |
| 4/2/2019 | |
| 4/3/2019 | <0.08 |
| 4/4/2019 | |
| 9/16/2019 | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

| | |
|-----------|-----------|
| 9/17/2019 | |
| 9/18/2019 | <0.08 |
| 9/19/2019 | |
| 3/16/2020 | |
| 3/17/2020 | |
| 3/18/2020 | |
| 3/19/2020 | 0.039 (J) |
| 5/4/2020 | |
| 9/21/2020 | |
| 9/22/2020 | |
| 9/23/2020 | |
| 9/24/2020 | <0.08 |
| 3/10/2021 | |
| 3/11/2021 | <0.08 |
| 3/12/2021 | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-2 (bg) | WGWA-18 (bg) | WGWA-6 (bg) | WGWA-3 (bg) | WGWC-16 | WGWA-7 (bg) | WGWC-17 | WGWA-4 (bg) |
|------------|-------------|-------------|--------------|-------------|-------------|---------|-------------|---------|-------------|
| 5/17/2016 | 0.927 | 12.2 | 23.7 | | | | | | |
| 5/18/2016 | | | | 27 | 2.1 | 168 | 1.36 | 8.24 | 17.9 |
| 5/19/2016 | | | | | | | | | |
| 7/19/2016 | 1 | 13 | 23 | 23 | | 190 | 0.88 | | |
| 7/20/2016 | | | | | 1.7 | | | 11 | 15 |
| 9/13/2016 | 0.44 | 13 | 23 | 25 | 1.3 | | 0.93 | | 16 |
| 9/14/2016 | | | | | | 230 | | 12 | |
| 9/15/2016 | | | | | | | | | |
| 11/9/2016 | 1.1 | 19 | 6.7 | 25 | | | | | |
| 11/10/2016 | | | | | 1.6 | 240 | 6.1 | 11 | 15 |
| 11/11/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 1/17/2017 | 1.4 | 28 | | | | | | | |
| 1/18/2017 | | | | 26 | 1.7 | | 10 | | 17 |
| 1/19/2017 | | | 8.5 | | | | | | |
| 1/20/2017 | | | | | | | | 10 | |
| 1/24/2017 | | | | | | 280 | | | |
| 1/27/2017 | | | | | | | | | |
| 2/6/2017 | | | | | | | | | |
| 2/8/2017 | | | | | | | | | |
| 2/9/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 3/13/2017 | 1.1 | 14 | | | | | | | |
| 3/14/2017 | | | 13 | 20 | 1.8 | | 1.3 | 8.8 | 17 |
| 3/15/2017 | | | | | | 260 | | | |
| 3/17/2017 | | | | | | | | | |
| 4/11/2017 | | | | | | | | | |
| 4/24/2017 | 1.1 | 12 | | | | | | | |
| 4/25/2017 | | | 23 | 28 | 2 | 300 | 1.9 | 12 | 17 |
| 4/26/2017 | | | | | | | | | |
| 5/17/2017 | | | | | | | | | |
| 6/7/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 8/8/2017 | 1.1 | 18 | 24 | 26 | 2 | | 4.8 | | |
| 8/9/2017 | | | | | | 350 | | 11 | 15 |
| 8/10/2017 | | | | | | | | | |
| 10/10/2017 | 1.2 | 21 | | | | | | | |
| 10/11/2017 | | | 23 | 29 | 2.1 | 360 | 0.93 | 10 | 17 |
| 10/12/2017 | | | | | | | | | |
| 6/13/2018 | 1.1 | | 11 | 25 | | | | | |
| 6/14/2018 | | 12 | | | 2 | 260 | 0.94 | 6.2 | 15 |
| 9/24/2018 | | 11 | | | | | | | |
| 9/27/2018 | 1.2 | | | | | | | | |
| 9/28/2018 | | | 11 | | | | | | |
| 10/2/2018 | | | | 26 | | | | | |
| 10/3/2018 | | | | | 1.8 | | 1.2 | | 16 |
| 10/4/2018 | | | | | | 250 | | 6.4 | |
| 4/1/2019 | 1 | 12 | | | | | | | |
| 4/2/2019 | | | 20 | 25 | 1.8 | | 1.1 | | 15 |
| 4/3/2019 | | | | | | | | | |
| 4/4/2019 | | | | | | 110 | | 5.6 | |
| 9/16/2019 | 1.3 | | | 25 | | | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-10 | WGWC-15 | WGWA-5 (bg) | WGWC-8 | WGWC-13 | WGWC-12 | WGWC-9 | WGWC-11 | WGWC-19 |
|------------|---------|---------|-------------|--------|---------|---------|--------|---------|---------|
| 5/17/2016 | | | | | | | | | |
| 5/18/2016 | 7.17 | 32.5 | 1.7 | | | | | | |
| 5/19/2016 | | | | 31.4 | 11.4 | 15.8 | 8.53 | 1.95 | |
| 7/19/2016 | | 30 | 1.5 | | | | | | |
| 7/20/2016 | 7 | | | 28 | 7.1 | 14 | 8.2 | 1.5 | |
| 9/13/2016 | | | | | | | | | |
| 9/14/2016 | 7.7 | 37 | 52 | | 7.4 | 16 | 8.8 | 1.8 | |
| 9/15/2016 | | | | 27 | | | | | |
| 11/9/2016 | | | | | | | | | |
| 11/10/2016 | | 29 | | | 6.4 | | | | |
| 11/11/2016 | 8.2 | | | | | 15 | | 1.7 | 12 |
| 11/14/2016 | | | | 32 | | | | | |
| 1/17/2017 | | | | | | | | | |
| 1/18/2017 | | | | | | | | | |
| 1/19/2017 | | | 13 | | | | | | |
| 1/20/2017 | | | | | | | | | |
| 1/24/2017 | | 28 | | | | | | | |
| 1/27/2017 | | | | | 6.2 | 16 | | 3.5 | |
| 2/6/2017 | 9.1 | | | 41 | | | | | 11 |
| 2/8/2017 | | | | | | | | | |
| 2/9/2017 | | | | | | | 10 | | |
| 2/23/2017 | | | | | | | | | |
| 3/13/2017 | | | | | | | | | |
| 3/14/2017 | | 29 | 1.6 | | | | | | |
| 3/15/2017 | 9 | | | 38 | 6.7 | 16 | 8.6 | 3.8 | 10 |
| 3/17/2017 | | | | | | | | | |
| 4/11/2017 | | | | | | | 8.6 | | 11 |
| 4/24/2017 | | | | | | | | | |
| 4/25/2017 | | 32 | 1.5 | | | | | | |
| 4/26/2017 | 8.1 | | | 39 | 6.5 | 3 | 7.1 | 4 | 8.4 |
| 5/17/2017 | | | | | | | | | |
| 6/7/2017 | | | | | | | | | 9 |
| 7/11/2017 | | | | | | | | | 9.5 |
| 8/8/2017 | | | | | | | | | |
| 8/9/2017 | | 30 | 1.3 | | 7 | | | | |
| 8/10/2017 | 8.1 | | | 53 | | 15 | 7.5 | 3.5 | 8.8 |
| 10/10/2017 | | | | | | | | | |
| 10/11/2017 | | 31 | 1.5 | | | | | | |
| 10/12/2017 | 8.6 | | | 60 | 7 | 16 | 8.2 | 2.7 | 9.5 |
| 6/13/2018 | | | 1.2 | | | | | | |
| 6/14/2018 | 7.7 | 29 | | 52 | 5.5 | 13 | 7.5 | 2.2 | 8.9 |
| 9/24/2018 | | | | | | | | | |
| 9/27/2018 | | | | | | | | | |
| 9/28/2018 | | | | | | | | | |
| 10/2/2018 | | | | | | | | | |
| 10/3/2018 | | 31 | 1.4 | | | | | | |
| 10/4/2018 | 8.5 | | | 65 | 5.9 | 15 | 8 | 2 | 10 |
| 4/1/2019 | | | | | | | | | |
| 4/2/2019 | | | 1.1 | | | | | | 11 |
| 4/3/2019 | | | | 61 | 4.7 | 14 | 7.2 | 1.7 | |
| 4/4/2019 | 7.9 | 30 | | | | | | | |
| 9/16/2019 | | | 36 | | | | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-10 | WGWC-15 | WGWA-5 (bg) | WGWC-8 | WGWC-13 | WGWC-12 | WGWC-9 | WGWC-11 | WGWC-19 |
|-----------|---------|---------|-------------|--------|---------|---------|--------|---------|---------|
| 9/17/2019 | | | | | | | | | |
| 9/18/2019 | | 31 | | | 4.9 | | | | 8.8 |
| 9/19/2019 | 7.5 | | | 57 | | 14 | 8.1 | 1.4 | |
| 3/16/2020 | | | | | | | | | |
| 3/17/2020 | | | 1.4 | | | | | | |
| 3/18/2020 | 7.5 | 30 | | | | 14 | | 1.6 | |
| 3/19/2020 | | | | 79 | 5 | | 9.3 | | |
| 5/4/2020 | | | | | | | | | 15 |
| 9/21/2020 | | | | | | | | | |
| 9/22/2020 | | | 58 | 81 | | | | | |
| 9/23/2020 | 7.7 | 32 | | | | 13 | 10 | | 13 |
| 9/24/2020 | | | | | 1.4 | | | 5.2 | |
| 3/10/2021 | | | 1.3 | | | | | | |
| 3/11/2021 | 7.9 | | | 83 | 4 | | | | 15 |
| 3/12/2021 | | 31 | | | | 15 | 11 | 1.6 | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

| | |
|------------|------|
| 5/17/2016 | |
| 5/18/2016 | |
| 5/19/2016 | |
| 7/19/2016 | |
| 7/20/2016 | |
| 9/13/2016 | |
| 9/14/2016 | |
| 9/15/2016 | |
| 11/9/2016 | |
| 11/10/2016 | |
| 11/11/2016 | |
| 11/14/2016 | |
| 1/17/2017 | |
| 1/18/2017 | |
| 1/19/2017 | |
| 1/20/2017 | |
| 1/24/2017 | |
| 1/27/2017 | |
| 2/6/2017 | |
| 2/8/2017 | 3.2 |
| 2/9/2017 | |
| 2/23/2017 | 4.1 |
| 3/13/2017 | |
| 3/14/2017 | |
| 3/15/2017 | |
| 3/17/2017 | 2.4 |
| 4/11/2017 | 4.1 |
| 4/24/2017 | |
| 4/25/2017 | |
| 4/26/2017 | 2.5 |
| 5/17/2017 | 5.2 |
| 6/7/2017 | 5.2 |
| 7/11/2017 | 2.3 |
| 8/8/2017 | |
| 8/9/2017 | |
| 8/10/2017 | |
| 10/10/2017 | |
| 10/11/2017 | 3.8 |
| 10/12/2017 | |
| 6/13/2018 | |
| 6/14/2018 | 1.1 |
| 9/24/2018 | |
| 9/27/2018 | |
| 9/28/2018 | |
| 10/2/2018 | |
| 10/3/2018 | |
| 10/4/2018 | 2 |
| 4/1/2019 | |
| 4/2/2019 | |
| 4/3/2019 | 0.84 |
| 4/4/2019 | |
| 9/16/2019 | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

| | |
|-----------|------|
| 9/17/2019 | |
| 9/18/2019 | 0.85 |
| 9/19/2019 | |
| 3/16/2020 | |
| 3/17/2020 | |
| 3/18/2020 | |
| 3/19/2020 | 0.89 |
| 5/4/2020 | |
| 9/21/2020 | |
| 9/22/2020 | |
| 9/23/2020 | |
| 9/24/2020 | 0.99 |
| 3/10/2021 | |
| 3/11/2021 | 0.79 |
| 3/12/2021 | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-2 (bg) | WGWA-18 (bg) | WGWA-6 (bg) | WGWA-3 (bg) | WGWC-16 | WGWA-7 (bg) | WGWC-17 | WGWA-4 (bg) |
|------------|-------------|-------------|--------------|-------------|-------------|---------|-------------|---------|-------------|
| 5/17/2016 | 3.8 | 2.5 | 6.05 | | | | | | |
| 5/18/2016 | | | | 1.58 | 1.92 | 217 | 2.06 | 2.72 | 1.45 |
| 5/19/2016 | | | | | | | | | |
| 7/19/2016 | 3.9 | 2.6 | 4 | 1.6 | | 250 | 2.1 | | |
| 7/20/2016 | | | | | 1.8 | | | 1.9 | 1.4 |
| 9/13/2016 | 3.6 | 2.4 | 3.1 | 1.4 | 1.7 | | 2 | | 1.4 |
| 9/14/2016 | | | | | | 260 | | 1.6 | |
| 9/15/2016 | | | | | | | | | |
| 11/9/2016 | 3.9 | 2.3 | 2.3 | 1.5 | | | | | |
| 11/10/2016 | | | | | 1.6 | 290 | 1.8 | 1.6 | 1.3 |
| 11/11/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 1/17/2017 | 3.8 | 2.3 | | | | | | | |
| 1/18/2017 | | | | 1.5 | 1.7 | | 1.8 | | 1.3 |
| 1/19/2017 | | | 2 | | | | | | |
| 1/20/2017 | | | | | | | | 1.5 | |
| 1/24/2017 | | | | | | 310 | | | |
| 1/27/2017 | | | | | | | | | |
| 2/6/2017 | | | | | | | | | |
| 2/8/2017 | | | | | | | | | |
| 2/9/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 3/13/2017 | 3.4 | 2.2 | | | | | | | |
| 3/14/2017 | | | 1.9 | 2.5 | 1.6 | | 1.8 | 1.5 | 1.2 |
| 3/15/2017 | | | | | | 330 | | | |
| 3/17/2017 | | | | | | | | | |
| 4/11/2017 | | | | | | | | | |
| 4/24/2017 | 3.4 | 2.2 | | | | | | | |
| 4/25/2017 | | | 1.9 | 1.3 | 1.6 | 330 | 1.8 | 1.8 | 1.2 |
| 4/26/2017 | | | | | | | | | |
| 5/17/2017 | | | | | | | | | |
| 6/7/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 8/8/2017 | 3.6 | 2.3 | 2 | 1.4 | 1.7 | | 1.9 | | |
| 8/9/2017 | | | | | | 330 | | 1.4 | 1.2 |
| 8/10/2017 | | | | | | | | | |
| 10/10/2017 | 3.6 | 2.5 | | | | | | | |
| 10/11/2017 | | | 1.9 | 1.3 | 1.6 | 320 | 1.8 | 1.5 | 1.2 |
| 10/12/2017 | | | | | | | | | |
| 6/13/2018 | 3.8 | | 2 | 1.4 | | | | | |
| 6/14/2018 | | 2.3 | | | 1.6 | 290 | 1.7 | 1.5 | 1.2 |
| 9/24/2018 | | 2.4 | | | | | | | |
| 9/27/2018 | 4 | | | | | | | | |
| 9/28/2018 | | | 2.1 | | | | | | |
| 10/2/2018 | | | | 1.4 | | | | | |
| 10/3/2018 | | | | | 1.6 | | 1.8 | | 1.2 |
| 10/4/2018 | | | | | | 290 | | 1.5 | |
| 4/1/2019 | 4 | 2.4 | | | | | | | |
| 4/2/2019 | | | 2.6 | 1.5 | 1.7 | | 1.9 | | 1.2 |
| 4/3/2019 | | | | | | | | | |
| 4/4/2019 | | | | | | 170 | | 1.4 | |
| 9/16/2019 | 4 | | | 1.5 | | | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-10 | WGWC-15 | WGWA-5 (bg) | WGWC-8 | WGWC-13 | WGWC-12 | WGWC-9 | WGWC-11 | WGWC-19 |
|------------|---------|---------|-------------|--------|---------|---------|--------|---------|---------|
| 5/17/2016 | | | | | | | | | |
| 5/18/2016 | 1.45 | 4.59 | 2.14 | | | | | | |
| 5/19/2016 | | | | 17.5 | 2.26 | 3.8 | 1.46 | 3.21 | |
| 7/19/2016 | | 5.9 | 2.4 | | | | | | |
| 7/20/2016 | 1.6 | | | 19 | 1.9 | 3.8 | 1.5 | 3.4 | |
| 9/13/2016 | | | | | | | | | |
| 9/14/2016 | 1.5 | 7.9 | 2.1 | | 1.6 | 3.7 | 1.4 | 3.1 | |
| 9/15/2016 | | | | 19 | | | | | |
| 11/9/2016 | | | | | | | | | |
| 11/10/2016 | | 6.5 | | | 1.4 | | | | |
| 11/11/2016 | 1.5 | | | | | 3.5 | | 3.2 | 2.6 |
| 11/14/2016 | | | | 25 | | | | | |
| 1/17/2017 | | | | | | | | | |
| 1/18/2017 | | | | | | | | | |
| 1/19/2017 | | | 1.8 | | | | | | |
| 1/20/2017 | | | | | | | | | |
| 1/24/2017 | | 4.1 | | | | | | | |
| 1/27/2017 | | | | | 1.4 | 3.1 | | 3.4 | |
| 2/6/2017 | 1.4 | | | 33 | | | | | 2.6 |
| 2/8/2017 | | | | | | | | | |
| 2/9/2017 | | | | | | | 1.5 | | |
| 2/23/2017 | | | | | | | | | |
| 3/13/2017 | | | | | | | | | |
| 3/14/2017 | | 4.4 | 2 | | | | | | |
| 3/15/2017 | 1.4 | | | 38 | 1.4 | 3.2 | 1.3 | 3.1 | 2.4 |
| 3/17/2017 | | | | | | | | | |
| 4/11/2017 | | | | | | | 1.2 | | 2.3 |
| 4/24/2017 | | | | | | | | | |
| 4/25/2017 | | 4 | 1.8 | | | | | | |
| 4/26/2017 | 1.3 | | | 42 | 1.3 | 3.2 | 1.2 | 3.1 | 2.3 |
| 5/17/2017 | | | | | | | | | |
| 6/7/2017 | | | | | | | | | 2.5 |
| 7/11/2017 | | | | | | | | | 2.3 |
| 8/8/2017 | | | | | | | | | |
| 8/9/2017 | | 3.6 | 1.9 | | 1.4 | | | | |
| 8/10/2017 | 1.4 | | | 48 | | 3.4 | 1.3 | 3.1 | 2.5 |
| 10/10/2017 | | | | | | | | | |
| 10/11/2017 | | 5 | 2.1 | | | | | | |
| 10/12/2017 | 1.3 | | | 60 | 1.2 | 3.1 | 1.4 | 3 | 2.3 |
| 6/13/2018 | | | 1.7 | | | | | | |
| 6/14/2018 | 1.3 | 4.3 | | 58 | 1.2 | 3 | 1.2 | 3 | 2.4 |
| 9/24/2018 | | | | | | | | | |
| 9/27/2018 | | | | | | | | | |
| 9/28/2018 | | | | | | | | | |
| 10/2/2018 | | | | | | | | | |
| 10/3/2018 | | 4.8 | 1.8 | | | | | | |
| 10/4/2018 | 1.3 | | | 300 | 1.2 | 3.1 | 1.2 | 3.1 | 2.6 |
| 4/1/2019 | | | | | | | | | |
| 4/2/2019 | | | 1.7 | | | | | | 2.5 |
| 4/3/2019 | | | | 70 | 1.2 | 3 | 2 | 3.3 | |
| 4/4/2019 | 1.4 | 3.7 | | | | | | | |
| 9/16/2019 | | | 1.8 | | | | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-10 | WGWC-15 | WGWA-5 (bg) | WGWC-8 | WGWC-13 | WGWC-12 | WGWC-9 | WGWC-11 | WGWC-19 |
|-----------|---------|---------|-------------|--------|---------|---------|--------|---------|---------|
| 9/17/2019 | | | | | | | | | |
| 9/18/2019 | | 3.2 | | | 1.2 | | | | 2.7 |
| 9/19/2019 | 1.5 | | | 70 | | 3.2 | 1.5 | 3.2 | |
| 3/16/2020 | | | | | | | | | |
| 3/17/2020 | | | 1.6 | | | | | | |
| 3/18/2020 | 1.5 | 1.7 | | | | 3.2 | | 3.2 | |
| 3/19/2020 | | | | 98 | 1.3 | | 2.1 | | |
| 5/4/2020 | | | | | | | | | 2.8 |
| 9/21/2020 | | | | | | | | | |
| 9/22/2020 | | | 1.5 | 100 | | | | | |
| 9/23/2020 | 1.3 | 1.5 | | | | 2.8 | 2.4 | | 2.6 |
| 9/24/2020 | | | | | 1.6 | | | 1 | |
| 3/10/2021 | | | 1.8 | | | | | | |
| 3/11/2021 | 1.7 | | | 110 | 1.2 | | | | 2.9 |
| 3/12/2021 | | 1.6 | | | | 3.5 | 3.4 | 3.6 | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

| | |
|------------|-----|
| 5/17/2016 | |
| 5/18/2016 | |
| 5/19/2016 | |
| 7/19/2016 | |
| 7/20/2016 | |
| 9/13/2016 | |
| 9/14/2016 | |
| 9/15/2016 | |
| 11/9/2016 | |
| 11/10/2016 | |
| 11/11/2016 | |
| 11/14/2016 | |
| 1/17/2017 | |
| 1/18/2017 | |
| 1/19/2017 | |
| 1/20/2017 | |
| 1/24/2017 | |
| 1/27/2017 | |
| 2/6/2017 | |
| 2/8/2017 | 2.5 |
| 2/9/2017 | |
| 2/23/2017 | 4.3 |
| 3/13/2017 | |
| 3/14/2017 | |
| 3/15/2017 | |
| 3/17/2017 | 4.8 |
| 4/11/2017 | 3.8 |
| 4/24/2017 | |
| 4/25/2017 | |
| 4/26/2017 | 4.8 |
| 5/17/2017 | 3.9 |
| 6/7/2017 | 3.2 |
| 7/11/2017 | 4.1 |
| 8/8/2017 | |
| 8/9/2017 | |
| 8/10/2017 | |
| 10/10/2017 | |
| 10/11/2017 | 2.2 |
| 10/12/2017 | |
| 6/13/2018 | |
| 6/14/2018 | 2.8 |
| 9/24/2018 | |
| 9/27/2018 | |
| 9/28/2018 | |
| 10/2/2018 | |
| 10/3/2018 | |
| 10/4/2018 | 2.2 |
| 4/1/2019 | |
| 4/2/2019 | |
| 4/3/2019 | 2.4 |
| 4/4/2019 | |
| 9/16/2019 | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

| | |
|-----------|-----|
| 9/17/2019 | |
| 9/18/2019 | 2.2 |
| 9/19/2019 | |
| 3/16/2020 | |
| 3/17/2020 | |
| 3/18/2020 | |
| 3/19/2020 | 1.9 |
| 5/4/2020 | |
| 9/21/2020 | |
| 9/22/2020 | |
| 9/23/2020 | |
| 9/24/2020 | 3.1 |
| 3/10/2021 | |
| 3/11/2021 | 2.6 |
| 3/12/2021 | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-2 (bg) | WGWA-18 (bg) | WGWC-10 | WGWA-7 (bg) | WGWC-15 | WGWA-6 (bg) | WGWC-16 | WGWC-17 |
|------------|-------------|-------------|--------------|----------|-------------|---------|-------------|----------|-----------|
| 5/17/2016 | 0.0131 (J) | 0.0538 (J) | 0.284 (J) | | | | | | |
| 5/18/2016 | | | | 0.206 | 0.018 (J) | 0.779 | 0.106 (J) | 0.1 (J) | 0.121 (J) |
| 5/19/2016 | | | | | | | | | |
| 7/19/2016 | <0.1 | <0.1 | 0.21 | | <0.1 | 0.97 | 0.11 (J) | 0.14 (J) | |
| 7/20/2016 | | | | 0.23 | | | | | 0.16 (J) |
| 9/13/2016 | <0.1 | <0.1 | 0.15 (J) | | <0.1 | | 0.11 (J) | | |
| 9/14/2016 | | | | 0.17 (J) | | 0.89 | | 0.18 (J) | 0.19 (J) |
| 9/15/2016 | | | | | | | | | |
| 11/9/2016 | <0.1 | 0.085 (J) | <0.1 | | | | 0.1 (J) | | |
| 11/10/2016 | | | | | <0.1 | 0.88 | | 0.11 (J) | 0.15 (J) |
| 11/11/2016 | | | | 0.14 (J) | | | | | |
| 11/14/2016 | | | | | | | | | |
| 1/17/2017 | <0.1 | <0.1 | | | | | | | |
| 1/18/2017 | | | | | <0.1 | | 0.11 (J) | | |
| 1/19/2017 | | | 0.087 (J) | | | | | | |
| 1/20/2017 | | | | | | | | | 0.18 (J) |
| 1/24/2017 | | | | | | 0.92 | | 0.15 (J) | |
| 1/27/2017 | | | | | | | | | |
| 2/6/2017 | | | | 0.15 (J) | | | | | |
| 2/8/2017 | | | | | | | | | |
| 2/9/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 3/13/2017 | <0.1 | <0.1 | | | | | | | |
| 3/14/2017 | | | <0.1 | | <0.1 | 0.77 | <0.1 | | 0.11 (J) |
| 3/15/2017 | | | | 0.16 (J) | | | | 0.1 (J) | |
| 3/17/2017 | | | | | | | | | |
| 4/11/2017 | | | | | | | | | |
| 4/24/2017 | <0.1 | <0.1 | | | | | | | |
| 4/25/2017 | | | <0.1 | | <0.1 | 0.95 | <0.1 | 0.13 (J) | 0.13 (J) |
| 4/26/2017 | | | | 0.17 (J) | | | | | |
| 5/17/2017 | | | | | | | | | |
| 6/7/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 8/8/2017 | <0.1 | <0.1 | 0.087 (J) | | <0.1 | | 0.099 (J) | | |
| 8/9/2017 | | | | | | 0.91 | | 0.18 (J) | 0.19 (J) |
| 8/10/2017 | | | | 0.2 | | | | | |
| 10/10/2017 | <0.1 | 0.18 (J) | | | | | | | |
| 10/11/2017 | | | 0.09 (J) | | <0.1 | 0.88 | 0.098 (J) | <0.1 | 0.14 (J) |
| 10/12/2017 | | | | 0.14 (J) | | | | | |
| 3/27/2018 | <0.1 | <0.1 | | | | | | | |
| 3/28/2018 | | | 0.11 (J) | | <0.1 | | 0.088 (J) | | |
| 3/29/2018 | | | | | | | | 0.13 (J) | |
| 3/30/2018 | | | | 0.13 (J) | | 0.79 | | | 0.095 (J) |
| 6/13/2018 | <0.1 | | 0.085 (J) | | | | 0.093 (J) | | |
| 6/14/2018 | | <0.1 | | 0.15 (J) | <0.1 | 0.79 | | <0.1 | 0.11 (J) |
| 9/24/2018 | | <0.1 | | | | | | | |
| 9/27/2018 | <0.1 | | | | | | | | |
| 9/28/2018 | | | 0.082 (J) | | | | | | |
| 10/2/2018 | | | | | | | 0.13 (J) | | |
| 10/3/2018 | | | | | <0.1 | 0.79 | | | |
| 10/4/2018 | | | | 0.18 (J) | | | | 0.85 (J) | 0.11 (J) |
| 2/25/2019 | <0.1 | 0.032 (J) | | | | | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-2 (bg) | WGWA-18 (bg) | WGWC-10 | WGWA-7 (bg) | WGWC-15 | WGWA-6 (bg) | WGWC-16 | WGWC-17 |
|-----------|-------------|-------------|--------------|-----------|-------------|---------|-------------|-----------|-----------|
| 2/26/2019 | | | 0.23 | | <0.1 | | 0.074 (J) | | 0.068 (J) |
| 2/27/2019 | | | | 0.21 | | 0.81 | | 0.47 | |
| 2/28/2019 | | | | | | | | | |
| 4/1/2019 | <0.1 | 0.061 (J) | | | | | | | |
| 4/2/2019 | | | 0.21 | | <0.1 | | 0.09 (J) | | |
| 4/3/2019 | | | | | | | | | |
| 4/4/2019 | | | | 0.13 (J) | | 0.78 | | 0.08 (J) | 0.087 (J) |
| 9/16/2019 | 0.03 (J) | | | | | | 0.1 (J) | | |
| 9/17/2019 | | 0.061 (J) | 0.079 (J) | | | | | | |
| 9/18/2019 | | | | | 0.027 (J) | 0.81 | | 0.058 (J) | 0.066 (J) |
| 9/19/2019 | | | | 0.13 (J) | | | | | |
| 2/3/2020 | 0.032 (J) | 0.061 (J) | | | | | | | |
| 2/4/2020 | | | | | | | 0.13 | | |
| 2/5/2020 | | | 0.12 | 0.14 | 0.026 (J) | | | | |
| 2/7/2020 | | | | | | 0.79 | | 0.072 (J) | 0.079 (J) |
| 3/16/2020 | 0.042 (J) | 0.052 (J) | | | | | | | |
| 3/17/2020 | | | <0.1 | | 0.044 (J) | | 0.037 (J) | | |
| 3/18/2020 | | | | 0.052 (J) | | 0.71 | | 0.084 (J) | <0.1 |
| 3/19/2020 | | | | | | | | | |
| 5/4/2020 | | | | | | | | | |
| 9/21/2020 | | 0.037 (J) | | | | | | | |
| 9/22/2020 | <0.1 | | 0.1 | | <0.1 | | 0.068 (J) | | |
| 9/23/2020 | | | | 0.09 (J) | | 0.63 | | 0.049 (J) | 0.05 (J) |
| 9/24/2020 | | | | | | | | | |
| 2/2/2021 | 0.028 (J) | 0.065 (J) | 0.071 (J) | | <0.1 | | | | |
| 2/3/2021 | | | | | | | 0.088 (J) | | |
| 2/4/2021 | | | | 0.12 | | 0.69 | | 0.052 (J) | 0.064 (J) |
| 3/10/2021 | | 0.045 (J) | 0.046 (J) | | <0.1 | | | | |
| 3/11/2021 | <0.1 | | | 0.15 | | | 0.092 (J) | 0.061 (J) | 0.05 (J) |
| 3/12/2021 | | | | | | 0.88 | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-4 (bg) | WGWA-3 (bg) | WGWA-5 (bg) | WGWC-13 | WGWC-12 | WGWC-11 | WGWC-8 | WGWC-9 | WGWC-19 |
|-----------|-------------|-------------|-------------|---------|-----------|-----------|-----------|--------|---------|
| 2/26/2019 | 0.14 (J) | <0.1 | <0.1 | | | | | | |
| 2/27/2019 | | | | 0.25 | 0.06 (J) | 0.047 (J) | 0.054 (J) | | |
| 2/28/2019 | | | | | | | | 1.4 | 0.28 |
| 4/1/2019 | | | | | | | | | |
| 4/2/2019 | 0.14 (J) | 0.039 (J) | <0.1 | | | | | | 0.33 |
| 4/3/2019 | | | | 0.24 | 0.084 (J) | 0.048 (J) | 0.5 | 1.3 | |
| 4/4/2019 | | | | | | | | | |
| 9/16/2019 | | | <0.1 | | | | | | |
| 9/17/2019 | 0.14 (J) | | | | | | | | |
| 9/18/2019 | | 0.033 (J) | | 0.22 | | | | | 0.32 |
| 9/19/2019 | | | | | 0.093 (J) | 0.037 (J) | 0.42 | 1.3 | |
| 2/3/2020 | | | | | | | | | |
| 2/4/2020 | 0.13 | 0.031 (J) | <0.1 | | | | | | |
| 2/5/2020 | | | | 0.2 | 0.098 (J) | 0.045 (J) | | 1.3 | |
| 2/7/2020 | | | | | | | 0.25 | | 0.35 |
| 3/16/2020 | | | | | | | | | |
| 3/17/2020 | 0.11 | 0.04 (J) | <0.1 | | | | | | |
| 3/18/2020 | | | | | 0.033 (J) | <0.1 | | | |
| 3/19/2020 | | | | 0.15 | | | 0.057 (J) | 1 | |
| 5/4/2020 | | | | | | | | | 0.36 |
| 9/21/2020 | 0.091 (J) | <0.1 | | | | | | | |
| 9/22/2020 | | | <0.1 | | | | 0.14 | | |
| 9/23/2020 | | | | | 0.064 (J) | | | 0.82 | 0.25 |
| 9/24/2020 | | | | <0.1 | | 0.18 | | | |
| 2/2/2021 | 0.15 | 0.035 (J) | | | | | | | |
| 2/3/2021 | | | <0.1 | | 0.082 (J) | 0.027 (J) | 0.15 | | 0.3 |
| 2/4/2021 | | | | 0.16 | | | | 0.91 | |
| 3/10/2021 | 0.12 | <0.1 | <0.1 | | | | | | |
| 3/11/2021 | | | | 0.18 | | | 0.16 | | 0.31 |
| 3/12/2021 | | | | | 0.096 (J) | 0.044 (J) | | 0.98 | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

| | |
|------------|------|
| 5/17/2016 | |
| 5/18/2016 | |
| 5/19/2016 | |
| 7/19/2016 | |
| 7/20/2016 | |
| 9/13/2016 | |
| 9/14/2016 | |
| 9/15/2016 | |
| 11/9/2016 | |
| 11/10/2016 | |
| 11/11/2016 | |
| 11/14/2016 | |
| 1/17/2017 | |
| 1/18/2017 | |
| 1/19/2017 | |
| 1/20/2017 | |
| 1/24/2017 | |
| 1/27/2017 | |
| 2/6/2017 | |
| 2/8/2017 | <0.1 |
| 2/9/2017 | |
| 2/23/2017 | <0.1 |
| 3/13/2017 | |
| 3/14/2017 | |
| 3/15/2017 | |
| 3/17/2017 | <0.1 |
| 4/11/2017 | <0.1 |
| 4/24/2017 | |
| 4/25/2017 | |
| 4/26/2017 | <0.1 |
| 5/17/2017 | <0.1 |
| 6/7/2017 | <0.1 |
| 7/11/2017 | <0.1 |
| 8/8/2017 | |
| 8/9/2017 | |
| 8/10/2017 | |
| 10/10/2017 | |
| 10/11/2017 | <0.1 |
| 10/12/2017 | |
| 3/27/2018 | |
| 3/28/2018 | |
| 3/29/2018 | <0.1 |
| 3/30/2018 | |
| 6/13/2018 | |
| 6/14/2018 | <0.1 |
| 9/24/2018 | |
| 9/27/2018 | |
| 9/28/2018 | |
| 10/2/2018 | |
| 10/3/2018 | |
| 10/4/2018 | <0.1 |
| 2/25/2019 | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

| | |
|-----------|-----------|
| 2/26/2019 | |
| 2/27/2019 | <0.1 |
| 2/28/2019 | |
| 4/1/2019 | |
| 4/2/2019 | |
| 4/3/2019 | 0.048 (J) |
| 4/4/2019 | |
| 9/16/2019 | |
| 9/17/2019 | |
| 9/18/2019 | 0.035 (J) |
| 9/19/2019 | |
| 2/3/2020 | |
| 2/4/2020 | |
| 2/5/2020 | 0.04 (J) |
| 2/7/2020 | |
| 3/16/2020 | |
| 3/17/2020 | |
| 3/18/2020 | |
| 3/19/2020 | <0.1 |
| 5/4/2020 | |
| 9/21/2020 | |
| 9/22/2020 | |
| 9/23/2020 | |
| 9/24/2020 | 0.028 (J) |
| 2/2/2021 | |
| 2/3/2021 | |
| 2/4/2021 | 0.033 (J) |
| 3/10/2021 | |
| 3/11/2021 | 0.04 (J) |
| 3/12/2021 | |

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-2 (bg) | WGWA-18 (bg) | WGWC-10 | WGWA-7 (bg) | WGWC-15 | WGWA-6 (bg) | WGWC-16 | WGWA-5 (bg) |
|------------|-------------|-------------|--------------|---------|-------------|----------|-------------|----------|-------------|
| 5/17/2016 | 5.24 | 6.23 | 7.81 | | | | | | |
| 5/18/2016 | | | | 8.96 | 5.5 | 7.75 | 7.92 | 6.06 | 5.47 |
| 5/19/2016 | | | | | | | | | |
| 7/18/2016 | 5.434038 | | | | | | | 5.884339 | |
| 7/19/2016 | | 6.285413 | | | 5.43 | 7.876073 | 7.154587 | | 5.336672 |
| 7/20/2016 | | | | 8.56774 | | | | | |
| 9/1/2016 | | | | | | | | | |
| 9/13/2016 | 5.22 | 6.3 | 7.18 | | 5.57 | | 7.96 | | |
| 9/14/2016 | | | | | | 7.79 | | 5.89 | 7.29 |
| 9/15/2016 | | | | | | | | | |
| 11/9/2016 | 5.57 | 6.26 | 6.03 | | | | 7.27 | | |
| 11/10/2016 | | | | | 6.93 | 7.76 | | 5.6 | |
| 11/11/2016 | | | | 6.96 | | | | | |
| 11/14/2016 | | | | | | | | | |
| 1/17/2017 | 5.48 | 6.8 | | | | | | | |
| 1/18/2017 | | | | | 7.16 | | 7.72 | | |
| 1/19/2017 | | | 6.71 | | | | | | 6.59 |
| 1/20/2017 | | | | | | | | | |
| 1/24/2017 | | | | | | 7.71 | | 5.54 | |
| 1/27/2017 | | | | | | | | | |
| 2/6/2017 | | | | 6.93 | | | | | |
| 2/8/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 3/13/2017 | 5.4 | 6.18 | | | | | | | |
| 3/14/2017 | | | 6.45 | | 5.82 | 7.57 | | | 5.86 |
| 3/15/2017 | | | | 6.82 | | | | 5.39 | |
| 3/17/2017 | | | | | | | | | |
| 4/11/2017 | | | | | | | | | |
| 4/24/2017 | 5.4 | 6.35 | | | | | | | |
| 4/25/2017 | | | 6.93 | | 5.57 | 7.47 | 7.73 | 5.28 | 5.35 |
| 4/26/2017 | | | | 6.73 | | | | | |
| 5/17/2017 | | | | | | | | | |
| 6/7/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 8/8/2017 | 5.32 | 6.23 | 6.72 | | 5.6 | | 7.74 | | |
| 8/9/2017 | | | | | | 7.37 | | 5.46 | 5.25 |
| 8/10/2017 | | | | 6.66 | | | | | |
| 8/25/2017 | | | | | | | | | 5.44 |
| 10/10/2017 | 5.26 | 6.32 | | | | | | | |
| 10/11/2017 | | | 6.75 | | 5.43 | 7.42 | 7.71 | 5.45 | 6.99 |
| 10/12/2017 | | | | 6.67 | | | | | |
| 3/27/2018 | 5.39 | 6.14 | | | | | | | |
| 3/28/2018 | | | 6.84 | | 5.29 | | 7.28 | | 5.95 |
| 3/29/2018 | | | | | | | | 5.33 | |
| 3/30/2018 | | | | 6.98 | | 7.48 | | | |
| 6/13/2018 | 5.33 | | 6.31 | | | | 7.78 | | 5.13 |
| 6/14/2018 | | 6.02 | | 6.56 | 5.39 | 7.5 | | 5.35 | |
| 9/24/2018 | | 6.1 | | | | | | | |
| 9/27/2018 | 5.33 | | | | | | | | |
| 9/28/2018 | | | 6.26 | | | | | | |
| 10/2/2018 | | | | | | | 7.52 | | |
| 10/3/2018 | | | | | 5.33 | 7.11 | | | 5.22 |

Prediction Limit

Constituent: pH (S.U.) Analysis Run: 5/11/2021 1:04 PM View: Appendix III
 Plant: Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-2 (bg) | WGWA-18 (bg) | WGWC-10 | WGWA-7 (bg) | WGWC-15 | WGWA-6 (bg) | WGWC-16 | WGWA-5 (bg) |
|-----------|-------------|-------------|--------------|---------|-------------|---------|-------------|---------|-------------|
| 10/4/2018 | | | | 6.4 | | | | 5.28 | |
| 2/25/2019 | 5.25 | 6.02 | | | | | | | |
| 2/26/2019 | | | 7.66 | | 5.62 | | 7.87 | | 5.21 |
| 2/27/2019 | | | | 6.23 | | 7.4 | | 5.08 | |
| 2/28/2019 | | | | | | | | | |
| 4/1/2019 | 5.31 | 6.09 | | | | | | | |
| 4/2/2019 | | | 7.53 | | 5.6 | | 7.94 | | 5.25 |
| 4/3/2019 | | | | | | | | | |
| 4/4/2019 | | | | 6.46 | | 7.58 | | 5.19 | |
| 9/16/2019 | 5.28 | | | | | | 7.55 | | 6.94 |
| 9/17/2019 | | 6.25 | 6.47 | | | | | | |
| 9/18/2019 | | | | | 5.6 | 7.8 | | 5.19 | |
| 9/19/2019 | | | | 6.45 | | | | | |
| 2/3/2020 | 5.4 | 6.09 | | | | | | | |
| 2/4/2020 | | | | | | | 7.74 | | 5.31 |
| 2/5/2020 | | | 6.73 | 6.42 | 5.54 | | | | |
| 2/7/2020 | | | | | | 7.66 | | 5.17 | |
| 3/16/2020 | 5.29 | 6.01 | | | | | | | |
| 3/17/2020 | | | 6.36 | | 5.32 | | 7.96 | | 5.34 |
| 3/18/2020 | | | | 6.4 | | 7.73 | | 5.08 | |
| 3/19/2020 | | | | | | | | | |
| 5/4/2020 | | | | | | | | | |
| 9/21/2020 | | 6.05 | | | | | | | |
| 9/22/2020 | 5.09 | | 7.18 | | 5.36 | | 7.4 | | 6.78 |
| 9/23/2020 | | | | 6.14 | | 7.35 | | 5.05 | |
| 9/24/2020 | | | | | | | | | |
| 2/2/2021 | 5.36 | 6.1 | 6.48 | | 5.84 | | | | |
| 2/3/2021 | | | | | | | 7.76 | | 5.3 |
| 2/4/2021 | | | | 6.21 | | 7.77 | | 5.42 | |
| 3/10/2021 | | 6.11 | 5.8 | | 4.96 | | | | 5.22 |
| 3/11/2021 | 5.26 | | | 6.56 | | | 7.93 | 5.21 | |
| 3/12/2021 | | | | | | 7.72 | | | |

Prediction Limit

Constituent: pH (S.U.) Analysis Run: 5/11/2021 1:04 PM View: Appendix III
 Plant: Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-17 | WGWA-4 (bg) | WGWA-3 (bg) | WGWC-11 | WGWC-13 | WGWC-8 | WGWC-9 | WGWC-12 | WGWC-19 |
|------------|----------|-------------|-------------|---------|----------|----------|----------|----------|---------|
| 5/17/2016 | | | | | | | | | |
| 5/18/2016 | 6.41 | 7.23 | 5.55 | | | | | | |
| 5/19/2016 | | | | 5.93 | 6.85 | 5.99 | 6.31 | 6.91 | |
| 7/18/2016 | | | | 5.9661 | | | | | |
| 7/19/2016 | | | | | | | | | |
| 7/20/2016 | 6.662463 | 7.281557 | 5.656628 | | 6.705264 | 6.194334 | 6.345061 | 6.962608 | |
| 9/1/2016 | | | | | | | | 6.96 | |
| 9/13/2016 | | 7.15 | 5.63 | | | | | | |
| 9/14/2016 | 6.7 | | | | 6.7 | | 6.33 | | |
| 9/15/2016 | | | | | | 6.38 | | | |
| 11/9/2016 | | | | | | | | | |
| 11/10/2016 | 6.51 | 6.33 | 5.61 | | 6.5 | | | | |
| 11/11/2016 | | | | 6.03 | | | | 6.76 | 6.93 |
| 11/14/2016 | | | | | | 5.7 | | | |
| 1/17/2017 | | | | | | | | | |
| 1/18/2017 | | 6.94 | 5.81 | | | | | | |
| 1/19/2017 | | | | | | | | | |
| 1/20/2017 | 6.55 | | | | | | | | |
| 1/24/2017 | | | | | | | | | |
| 1/27/2017 | | | | 6.21 | 6.47 | | | 6.66 | |
| 2/6/2017 | | | | | | 5.66 | | | 6.8 |
| 2/8/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 3/13/2017 | | | | | | | | | |
| 3/14/2017 | 6.27 | 6.75 | 5.53 | | | | | | |
| 3/15/2017 | | | | 5.97 | 6.75 | 5.77 | 5.99 | 6.3 | 6.78 |
| 3/17/2017 | | | | | | | | | |
| 4/11/2017 | | | | | | | | | 6.79 |
| 4/24/2017 | | | | | | | | | |
| 4/25/2017 | 6.26 | 6.84 | 5.59 | | | | | | |
| 4/26/2017 | | | | 6.17 | 6.57 | 5.39 | 6.03 | 6.67 | 6.82 |
| 5/17/2017 | | | | | | | | | |
| 6/7/2017 | | | | | | | | | 6.76 |
| 7/11/2017 | | | | | | | | | 6.99 |
| 8/8/2017 | | | 5.52 | | | | | | |
| 8/9/2017 | 6.47 | 6.67 | | | 6.55 | | | | |
| 8/10/2017 | | | | 6.05 | | 5.59 | 5.86 | 6.7 | 6.59 |
| 8/25/2017 | | | | | | | | | |
| 10/10/2017 | | | | | | | | | |
| 10/11/2017 | 6.47 | 6.75 | 5.51 | | | | | | |
| 10/12/2017 | | | | 6.89 | 6.67 | 5.46 | 6.09 | 6.89 | 6.7 |
| 3/27/2018 | | | | | | | | | |
| 3/28/2018 | | 6.79 | 5.6 | | | | | | |
| 3/29/2018 | | | | 6.85 | 6.99 | 5.43 | 5.89 | 7.08 | 6.88 |
| 3/30/2018 | 6.71 | | | | | | | | |
| 6/13/2018 | | | | | | | | | |
| 6/14/2018 | 6.15 | 6.67 | 5.58 | 5.89 | 6.39 | 5.76 | 6.47 | 6.73 | 6.72 |
| 9/24/2018 | | | | | | | | | |
| 9/27/2018 | | | | | | | | | |
| 9/28/2018 | | | | | | | | | |
| 10/2/2018 | | | | | | | | | |
| 10/3/2018 | | 6.92 | 5.45 | | | | | | |

Prediction Limit

Constituent: pH (S.U.) Analysis Run: 5/11/2021 1:04 PM View: Appendix III

Plant: Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-17 | WGWA-4 (bg) | WGWA-3 (bg) | WGWC-11 | WGWC-13 | WGWC-8 | WGWC-9 | WGWC-12 | WGWC-19 |
|-----------|---------|-------------|-------------|---------|---------|--------|-----------|---------|---------|
| 10/4/2018 | 6.14 | | | 5.81 | 6.5 | 5.39 | 6.17 | 6.79 | 6.67 |
| 2/25/2019 | | | | | | | | | |
| 2/26/2019 | 6.17 | 6.74 | 5.6 | | | | | | |
| 2/27/2019 | | | | 5.78 | 6.47 | | | 6.7 | |
| 2/28/2019 | | | | | | | 6.045 (D) | | 6.98 |
| 4/1/2019 | | | | | | | | | |
| 4/2/2019 | | 6.81 | 5.69 | | | | | | 6.75 |
| 4/3/2019 | | | | 6.07 | 6.47 | 5.55 | 6.1 | 6.91 | |
| 4/4/2019 | 6.16 | | | | | | | | |
| 9/16/2019 | | | | | | | | | |
| 9/17/2019 | | 6.93 | | | | | | | |
| 9/18/2019 | 6.17 | | 5.62 | | 6.46 | | | | 6.71 |
| 9/19/2019 | | | | 5.82 | | 5.39 | 6.38 | 6.63 | |
| 2/3/2020 | | | | | | | | | |
| 2/4/2020 | | 7.29 | 5.66 | | | | | | |
| 2/5/2020 | | | | 5.89 | 6.44 | | 6.54 | 6.76 | |
| 2/7/2020 | 6.34 | | | | | 5.38 | | | 7.08 |
| 3/16/2020 | | | | | | | | | |
| 3/17/2020 | | 6.83 | 5.61 | | | | | | |
| 3/18/2020 | 6.28 | | | 5.89 | | | | 6.94 | |
| 3/19/2020 | | | | | 6.56 | 6.43 | 6.64 | | |
| 5/4/2020 | | | | | | | | | 6.9 |
| 9/21/2020 | | 6.81 | 5.35 | | | | | | |
| 9/22/2020 | | | | | | 5.17 | | | |
| 9/23/2020 | 5.89 | | | | | | 5.8 | 6.42 | 6.59 |
| 9/24/2020 | | | | 5.5 | 6.29 | | | | |
| 2/2/2021 | | 6.61 | 5.78 | | | | | | |
| 2/3/2021 | | | | 5.21 | | 5.08 | | 6.15 | 6.75 |
| 2/4/2021 | 6.31 | | | | 6.34 | | 6.22 | | |
| 3/10/2021 | | 7.19 | 5.49 | | | | | | |
| 3/11/2021 | 5.96 | | | | 5.95 | 5.35 | | | 7.12 |
| 3/12/2021 | | | | 5.46 | | | 5.88 | 6.66 | |

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

| | |
|------------|------|
| 5/17/2016 | |
| 5/18/2016 | |
| 5/19/2016 | |
| 7/18/2016 | |
| 7/19/2016 | |
| 7/20/2016 | |
| 9/1/2016 | |
| 9/13/2016 | |
| 9/14/2016 | |
| 9/15/2016 | |
| 11/9/2016 | |
| 11/10/2016 | |
| 11/11/2016 | |
| 11/14/2016 | |
| 1/17/2017 | |
| 1/18/2017 | |
| 1/19/2017 | |
| 1/20/2017 | |
| 1/24/2017 | |
| 1/27/2017 | |
| 2/6/2017 | |
| 2/8/2017 | 5.81 |
| 2/23/2017 | 5.8 |
| 3/13/2017 | |
| 3/14/2017 | |
| 3/15/2017 | |
| 3/17/2017 | 5.97 |
| 4/11/2017 | 6.18 |
| 4/24/2017 | |
| 4/25/2017 | |
| 4/26/2017 | 6.09 |
| 5/17/2017 | 6.26 |
| 6/7/2017 | 6.21 |
| 7/11/2017 | 6 |
| 8/8/2017 | |
| 8/9/2017 | |
| 8/10/2017 | |
| 8/25/2017 | |
| 10/10/2017 | |
| 10/11/2017 | 6.97 |
| 10/12/2017 | |
| 3/27/2018 | |
| 3/28/2018 | |
| 3/29/2018 | 6.51 |
| 3/30/2018 | |
| 6/13/2018 | |
| 6/14/2018 | 5.76 |
| 9/24/2018 | |
| 9/27/2018 | |
| 9/28/2018 | |
| 10/2/2018 | |
| 10/3/2018 | |

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-14A |
|-----------|----------|
| 10/4/2018 | 5.97 |
| 2/25/2019 | |
| 2/26/2019 | |
| 2/27/2019 | 5.73 |
| 2/28/2019 | |
| 4/1/2019 | |
| 4/2/2019 | |
| 4/3/2019 | 5.68 |
| 4/4/2019 | |
| 9/16/2019 | |
| 9/17/2019 | |
| 9/18/2019 | 5.5 |
| 9/19/2019 | |
| 2/3/2020 | |
| 2/4/2020 | |
| 2/5/2020 | 5.52 |
| 2/7/2020 | |
| 3/16/2020 | |
| 3/17/2020 | |
| 3/18/2020 | |
| 3/19/2020 | 5.49 |
| 5/4/2020 | |
| 9/21/2020 | |
| 9/22/2020 | |
| 9/23/2020 | |
| 9/24/2020 | 5.16 |
| 2/2/2021 | |
| 2/3/2021 | |
| 2/4/2021 | 5.76 |
| 3/10/2021 | |
| 3/11/2021 | 5.1 |
| 3/12/2021 | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-2 (bg) | WGWA-18 (bg) | WGWA-6 (bg) | WGWA-3 (bg) | WGWC-16 | WGWA-7 (bg) | WGWC-17 | WGWA-4 (bg) |
|------------|-------------|-------------|--------------|-------------|-------------|---------|-------------|---------|-------------|
| 5/17/2016 | <1 | 1.14 | 19.9 | | | | | | |
| 5/18/2016 | | | | 8.88 | 0.821 (J) | 388 | 0.368 (J) | 32.1 | 5.32 |
| 5/19/2016 | | | | | | | | | |
| 7/19/2016 | <1 | 1.4 | 14 | 9 | | 460 | <1 | | |
| 7/20/2016 | | | | | 0.82 (J) | | | 9.7 | 6.5 |
| 9/13/2016 | <1 | 1.1 | 11 | 8.5 | 0.81 (J) | | <1 | | 5.6 |
| 9/14/2016 | | | | | | 500 | | 6.6 | |
| 9/15/2016 | | | | | | | | | |
| 11/9/2016 | <1 | 1.1 | 6.3 | 8.2 | | | | | |
| 11/10/2016 | | | | | 0.73 (J) | 530 | <1 | 5.2 | 5.4 |
| 11/11/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 1/17/2017 | <1 | 2.1 | | | | | | | |
| 1/18/2017 | | | | 9.4 | 0.99 (J) | | 1.4 | | 5.1 |
| 1/19/2017 | | | 7.4 | | | | | | |
| 1/20/2017 | | | | | | | | 5.3 | |
| 1/24/2017 | | | | | | 600 | | | |
| 1/27/2017 | | | | | | | | | |
| 2/6/2017 | | | | | | | | | |
| 2/8/2017 | | | | | | | | | |
| 2/9/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 3/13/2017 | <1 | 0.97 (J) | | | | | | | |
| 3/14/2017 | | | 10 | 2 | 0.83 (J) | | <1 | 9.6 | 4.6 |
| 3/15/2017 | | | | | | 610 | | | |
| 3/17/2017 | | | | | | | | | |
| 4/11/2017 | | | | | | | | | |
| 4/24/2017 | <1 | 0.75 (J) | | | | | | | |
| 4/25/2017 | | | 10 | 8.2 | 0.7 (J) | 620 | <1 | 20 | 6.6 |
| 4/26/2017 | | | | | | | | | |
| 5/17/2017 | | | | | | | | | |
| 6/7/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 8/8/2017 | <1 | 1.1 | 12 | 8.5 | 0.82 (J) | | <1 | | |
| 8/9/2017 | | | | | | 780 | | 6.5 | 7.3 |
| 8/10/2017 | | | | | | | | | |
| 10/10/2017 | <1 | 1.3 | | | | | | | |
| 10/11/2017 | | | 11 | 8.3 | 0.72 (J) | 720 | <1 | 13 | 6.8 |
| 10/12/2017 | | | | | | | | | |
| 6/13/2018 | <1 | | 8.2 | 8.3 | | | | | |
| 6/14/2018 | | 0.84 (J) | | | <1 | 620 | <1 | 16 | 6.9 |
| 9/24/2018 | | 0.79 (J) | | | | | | | |
| 9/27/2018 | <1 | | | | | | | | |
| 9/28/2018 | | | 7.6 | | | | | | |
| 10/2/2018 | | | | 8.3 | | | | | |
| 10/3/2018 | | | | | 0.73 (J) | | <1 | | 7 |
| 10/4/2018 | | | | | | 560 | | 15 | |
| 4/1/2019 | <1 | 1 | | | | | | | |
| 4/2/2019 | | | 11 | 8.5 | 1.1 | | 0.4 (J) | | 8.1 |
| 4/3/2019 | | | | | | | | | |
| 4/4/2019 | | | | | | 250 | | 9.1 | |
| 9/16/2019 | 0.49 (J) | | | 8.9 | | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-10 | WGWC-15 | WGWA-5 (bg) | WGWC-8 | WGWC-13 | WGWC-12 | WGWC-9 | WGWC-11 | WGWC-19 |
|------------|---------|---------|-------------|--------|---------|---------|--------|---------|---------|
| 5/17/2016 | | | | | | | | | |
| 5/18/2016 | 2.84 | 50.7 | 0.955 (J) | | | | | | |
| 5/19/2016 | | | | 146 | 19.2 | 15.8 | 35.9 | 1.83 | |
| 7/19/2016 | | 62 | 0.76 (J) | | | | | | |
| 7/20/2016 | 2.8 | | | 150 | 11 | 16 | 37 | 1.6 | |
| 9/13/2016 | | | | | | | | | |
| 9/14/2016 | 2.8 | 79 | 3.4 | | 8.6 | 16 | 39 | 1.5 | |
| 9/15/2016 | | | | 140 | | | | | |
| 11/9/2016 | | | | | | | | | |
| 11/10/2016 | | 61 | | | 5.7 | | | | |
| 11/11/2016 | 2.6 | | | | | 14 | | 1.4 | 3.4 |
| 11/14/2016 | | | | 160 | | | | | |
| 1/17/2017 | | | | | | | | | |
| 1/18/2017 | | | | | | | | | |
| 1/19/2017 | | | 21 | | | | | | |
| 1/20/2017 | | | | | | | | | |
| 1/24/2017 | | 34 | | | | | | | |
| 1/27/2017 | | | | | 6.8 | 15 | | 2.5 | |
| 2/6/2017 | 2.7 | | | 180 | | | | | 3.7 |
| 2/8/2017 | | | | | | | | | |
| 2/9/2017 | | | | | | | 60 | | |
| 2/23/2017 | | | | | | | | | |
| 3/13/2017 | | | | | | | | | |
| 3/14/2017 | | 43 | 1.4 | | | | | | |
| 3/15/2017 | 2.7 | | | 170 | 11 | 17 | 44 | 2.5 | 3.6 |
| 3/17/2017 | | | | | | | | | |
| 4/11/2017 | | | | | | | 36 | | 3.2 |
| 4/24/2017 | | | | | | | | | |
| 4/25/2017 | | 39 | 0.89 (J) | | | | | | |
| 4/26/2017 | 2.5 | | | 180 | 8.1 | 15 | 37 | 2.2 | 3.3 |
| 5/17/2017 | | | | | | | | | |
| 6/7/2017 | | | | | | | | | 3.8 |
| 7/11/2017 | | | | | | | | | 3.3 |
| 8/8/2017 | | | | | | | | | |
| 8/9/2017 | | 35 | 0.75 (J) | | 8.1 | | | | |
| 8/10/2017 | 2.2 | | | 180 | | 16 | 38 | 2.3 | 3.7 |
| 10/10/2017 | | | | | | | | | |
| 10/11/2017 | | 48 | <1 | | | | | | |
| 10/12/2017 | 1.9 | | | 180 | 6.1 | 14 | 37 | 1.9 | 3.6 |
| 6/13/2018 | | | <1 | | | | | | |
| 6/14/2018 | 2 | 44 | | 170 | 5 | 14 | 37 | 1.7 | 3.5 |
| 9/24/2018 | | | | | | | | | |
| 9/27/2018 | | | | | | | | | |
| 9/28/2018 | | | | | | | | | |
| 10/2/2018 | | | | | | | | | |
| 10/3/2018 | | 49 | <1 | | | | | | |
| 10/4/2018 | 1.9 | | | 780 | 4.3 | 14 | 38 | 1.6 | 4.6 |
| 4/1/2019 | | | | | | | | | |
| 4/2/2019 | | | 0.94 (J) | | | | | | 3.8 |
| 4/3/2019 | | | | 180 | 3.8 | 13 | 41 | 1.9 | |
| 4/4/2019 | 2.2 | 41 | | | | | | | |
| 9/16/2019 | | | 2.2 | | | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-10 | WGWC-15 | WGWA-5 (bg) | WGWC-8 | WGWC-13 | WGWC-12 | WGWC-9 | WGWC-11 | WGWC-19 |
|-----------|---------|---------|-------------|--------|----------|---------|--------|---------|---------|
| 9/17/2019 | | | | | | | | | |
| 9/18/2019 | | 37 | | | 3.9 | | | | 3.6 |
| 9/19/2019 | 2.1 | | | 190 | | 14 | 42 | 1.3 | |
| 3/16/2020 | | | | | | | | | |
| 3/17/2020 | | | 4 | | | | | | |
| 3/18/2020 | 2.1 | 17 | | | | 12 | | 1.6 | |
| 3/19/2020 | | | | 200 | 4 | | 45 | | |
| 5/4/2020 | | | | | | | | | 4.5 |
| 9/21/2020 | | | | | | | | | |
| 9/22/2020 | | | 1.5 | 200 | | | | | |
| 9/23/2020 | 1.8 | 21 | | | | 12 | 54 | | 3 |
| 9/24/2020 | | | | | 0.63 (J) | | | 2.7 | |
| 3/10/2021 | | | <1 | | | | | | |
| 3/11/2021 | 2.8 | | | 220 | 2.9 | | | | 4 |
| 3/12/2021 | | 19 | | | | 14 | 62 | 2 | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

| | |
|------------|-----|
| 5/17/2016 | |
| 5/18/2016 | |
| 5/19/2016 | |
| 7/19/2016 | |
| 7/20/2016 | |
| 9/13/2016 | |
| 9/14/2016 | |
| 9/15/2016 | |
| 11/9/2016 | |
| 11/10/2016 | |
| 11/11/2016 | |
| 11/14/2016 | |
| 1/17/2017 | |
| 1/18/2017 | |
| 1/19/2017 | |
| 1/20/2017 | |
| 1/24/2017 | |
| 1/27/2017 | |
| 2/6/2017 | |
| 2/8/2017 | 4.3 |
| 2/9/2017 | |
| 2/23/2017 | 16 |
| 3/13/2017 | |
| 3/14/2017 | |
| 3/15/2017 | |
| 3/17/2017 | 22 |
| 4/11/2017 | 13 |
| 4/24/2017 | |
| 4/25/2017 | |
| 4/26/2017 | 20 |
| 5/17/2017 | 12 |
| 6/7/2017 | 8.1 |
| 7/11/2017 | 17 |
| 8/8/2017 | |
| 8/9/2017 | |
| 8/10/2017 | |
| 10/10/2017 | |
| 10/11/2017 | 3.4 |
| 10/12/2017 | |
| 6/13/2018 | |
| 6/14/2018 | 5.8 |
| 9/24/2018 | |
| 9/27/2018 | |
| 9/28/2018 | |
| 10/2/2018 | |
| 10/3/2018 | |
| 10/4/2018 | 2.8 |
| 4/1/2019 | |
| 4/2/2019 | |
| 4/3/2019 | 3.8 |
| 4/4/2019 | |
| 9/16/2019 | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

| | |
|-----------|-----|
| 9/17/2019 | |
| 9/18/2019 | 1.7 |
| 9/19/2019 | |
| 3/16/2020 | |
| 3/17/2020 | |
| 3/18/2020 | |
| 3/19/2020 | 1.5 |
| 5/4/2020 | |
| 9/21/2020 | |
| 9/22/2020 | |
| 9/23/2020 | |
| 9/24/2020 | 1.2 |
| 3/10/2021 | |
| 3/11/2021 | 1.7 |
| 3/12/2021 | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWA-1 (bg) | WGWA-2 (bg) | WGWA-18 (bg) | WGWA-6 (bg) | WGWA-3 (bg) | WGWC-16 | WGWA-7 (bg) | WGWC-17 | WGWA-4 (bg) |
|------------|-------------|-------------|--------------|-------------|-------------|---------|-------------|---------|-------------|
| 5/17/2016 | <10 | 100 | 112 | | | | | | |
| 5/18/2016 | | | | 113 | 29 | 1080 | 31 | 107 | 101 |
| 5/19/2016 | | | | | | | | | |
| 7/19/2016 | 14 | 84 | 80 | 92 | | 1200 | <10 | | |
| 7/20/2016 | | | | | <10 | | | 78 | 86 |
| 9/13/2016 | 50 | 70 | 120 | 100 | 12 | | <10 | | 28 |
| 9/14/2016 | | | | | | 1300 | | 82 | |
| 9/15/2016 | | | | | | | | | |
| 11/9/2016 | 22 | 110 | 76 | 130 | | | | | |
| 11/10/2016 | | | | | 30 | 1400 | 44 | 98 | 110 |
| 11/11/2016 | | | | | | | | | |
| 11/14/2016 | | | | | | | | | |
| 1/17/2017 | 8 | 120 | | | | | | | |
| 1/18/2017 | | | | 120 | 22 | | 50 | | 98 |
| 1/19/2017 | | | 36 | | | | | | |
| 1/20/2017 | | | | | | | | 82 | |
| 1/24/2017 | | | | | | 1300 | | | |
| 1/27/2017 | | | | | | | | | |
| 2/6/2017 | | | | | | | | | |
| 2/8/2017 | | | | | | | | | |
| 2/9/2017 | | | | | | | | | |
| 2/23/2017 | | | | | | | | | |
| 3/13/2017 | <10 | 58 | | | | | | | |
| 3/14/2017 | | | 70 | 110 | 22 | | 26 | 120 | 110 |
| 3/15/2017 | | | | | | 1500 | | | |
| 3/17/2017 | | | | | | | | | |
| 4/11/2017 | | | | | | | | | |
| 4/24/2017 | 10 | 94 | | | | | | | |
| 4/25/2017 | | | 70 | 100 | 22 | 1700 | 10 | 120 | 86 |
| 4/26/2017 | | | | | | | | | |
| 5/17/2017 | | | | | | | | | |
| 6/7/2017 | | | | | | | | | |
| 7/11/2017 | | | | | | | | | |
| 8/8/2017 | <10 | 62 | 72 | 90 | 4 (J) | | <10 | | |
| 8/9/2017 | | | | | | 1900 | | 92 | 92 |
| 8/10/2017 | | | | | | | | | |
| 10/10/2017 | 44 | 140 | | | | | | | |
| 10/11/2017 | | | 90 | 98 | 10 | 1900 | 42 | 74 | 110 |
| 10/12/2017 | | | | | | | | | |
| 6/13/2018 | 24 | | 38 | 110 | | | | | |
| 6/14/2018 | | 80 | | | 26 | 1500 | 14 | 100 | 92 |
| 9/24/2018 | | 76 | | | | | | | |
| 9/27/2018 | 28 | | | | | | | | |
| 9/28/2018 | | | 68 | | | | | | |
| 10/2/2018 | | | | 130 | | | | | |
| 10/3/2018 | | | | | 50 | | 6 | | 100 |
| 10/4/2018 | | | | | | 1700 | | 98 | |
| 4/1/2019 | <10 | 63 | | | | | | | |
| 4/2/2019 | | | 100 | 110 | 28 | | 15 | | 100 |
| 4/3/2019 | | | | | | | | | |
| 4/4/2019 | | | | | | 710 | | 89 | |
| 9/16/2019 | 27 | | | 110 | | | | | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-10 | WGWC-15 | WGWA-5 (bg) | WGWC-8 | WGWC-13 | WGWC-12 | WGWC-9 | WGWC-11 | WGWC-19 |
|------------|---------|---------|-------------|--------|---------|---------|--------|---------|---------|
| 5/17/2016 | | | | | | | | | |
| 5/18/2016 | 70 | 190 | 33 | | | | | | |
| 5/19/2016 | | | | 311 | 127 | 101 | 134 | 39 | |
| 7/19/2016 | | 180 | <10 | | | | | | |
| 7/20/2016 | 42 | | | 290 | 88 | 76 | 120 | <10 | |
| 9/13/2016 | | | | | | | | | |
| 9/14/2016 | 40 | 230 | 150 | | 92 | 96 | 140 | 24 | |
| 9/15/2016 | | | | 270 | | | | | |
| 11/9/2016 | | | | | | | | | |
| 11/10/2016 | | 210 | | | 100 | | | | |
| 11/11/2016 | 72 | | | | | 100 | | 42 | 98 |
| 11/14/2016 | | | | 320 | | | | | |
| 1/17/2017 | | | | | | | | | |
| 1/18/2017 | | | | | | | | | |
| 1/19/2017 | | | 34 | | | | | | |
| 1/20/2017 | | | | | | | | | |
| 1/24/2017 | | 140 | | | | | | | |
| 1/27/2017 | | | | | 80 | 50 | | 18 | |
| 2/6/2017 | 24 | | | 330 | | | | | 36 |
| 2/8/2017 | | | | | | | | | |
| 2/9/2017 | | | | | | | 180 | | |
| 2/23/2017 | | | | | | | | | |
| 3/13/2017 | | | | | | | | | |
| 3/14/2017 | | 220 | 32 | | | | | | |
| 3/15/2017 | 78 | | | 370 | 100 | 120 | 160 | 54 | 120 |
| 3/17/2017 | | | | | | | | | |
| 4/11/2017 | | | | | | | 120 | | 68 |
| 4/24/2017 | | | | | | | | | |
| 4/25/2017 | | 180 | 22 | | | | | | |
| 4/26/2017 | 48 | | | 380 | 92 | 100 | 140 | 42 | 76 |
| 5/17/2017 | | | | | | | | | |
| 6/7/2017 | | | | | | | | | 74 |
| 7/11/2017 | | | | | | | | | 70 |
| 8/8/2017 | | | | | | | | | |
| 8/9/2017 | | 180 | 20 | | 120 | | | | |
| 8/10/2017 | 38 | | | 380 | | 96 | 130 | 30 | 66 |
| 10/10/2017 | | | | | | | | | |
| 10/11/2017 | | 200 | 4 (J) | | | | | | |
| 10/12/2017 | 72 | | | 450 | 110 | 100 | 120 | 54 | 100 |
| 6/13/2018 | | | <10 | | | | | | |
| 6/14/2018 | 40 | 170 | | 410 | 88 | 94 | 120 | 16 | 74 |
| 9/24/2018 | | | | | | | | | |
| 9/27/2018 | | | | | | | | | |
| 9/28/2018 | | | | | | | | | |
| 10/2/2018 | | | | | | | | | |
| 10/3/2018 | | 260 | 24 | | | | | | |
| 10/4/2018 | 60 | | | 520 | 100 | 110 | 140 | 56 | 100 |
| 4/1/2019 | | | | | | | | | |
| 4/2/2019 | | | 25 | | | | | | 88 |
| 4/3/2019 | | | | 430 | 72 | 66 | 120 | <10 | |
| 4/4/2019 | 30 | 170 | | | | | | | |
| 9/16/2019 | | | 41 | | | | | | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

| | WGWC-10 | WGWC-15 | WGWA-5 (bg) | WGWC-8 | WGWC-13 | WGWC-12 | WGWC-9 | WGWC-11 | WGWC-19 |
|-----------|---------|---------|-------------|--------|---------|---------|--------|---------|---------|
| 9/17/2019 | | | | | | | | | |
| 9/18/2019 | | 160 | | | 110 | | | | 96 |
| 9/19/2019 | 52 | | | 440 | | 89 | 130 | 27 | |
| 3/16/2020 | | | | | | | | | |
| 3/17/2020 | | | 18 | | | | | | |
| 3/18/2020 | 58 | 160 | | | | 73 | | 26 | |
| 3/19/2020 | | | | 540 | 95 | | 160 | | |
| 5/4/2020 | | | | | | | | | 110 |
| 9/21/2020 | | | | | | | | | |
| 9/22/2020 | | | 190 | 600 | | | | | |
| 9/23/2020 | 50 | 150 | | | | 90 | 150 | | 94 |
| 9/24/2020 | | | | | 21 | | | 60 | |
| 3/10/2021 | | | 19 | | | | | | |
| 3/11/2021 | 52 | | | 530 | 63 | | | | 100 |
| 3/12/2021 | | 130 | | | | 78 | 130 | 27 | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

| | |
|------------|-----|
| 5/17/2016 | |
| 5/18/2016 | |
| 5/19/2016 | |
| 7/19/2016 | |
| 7/20/2016 | |
| 9/13/2016 | |
| 9/14/2016 | |
| 9/15/2016 | |
| 11/9/2016 | |
| 11/10/2016 | |
| 11/11/2016 | |
| 11/14/2016 | |
| 1/17/2017 | |
| 1/18/2017 | |
| 1/19/2017 | |
| 1/20/2017 | |
| 1/24/2017 | |
| 1/27/2017 | |
| 2/6/2017 | |
| 2/8/2017 | 54 |
| 2/9/2017 | |
| 2/23/2017 | 78 |
| 3/13/2017 | |
| 3/14/2017 | |
| 3/15/2017 | |
| 3/17/2017 | 56 |
| 4/11/2017 | 76 |
| 4/24/2017 | |
| 4/25/2017 | |
| 4/26/2017 | 76 |
| 5/17/2017 | 68 |
| 6/7/2017 | 72 |
| 7/11/2017 | 68 |
| 8/8/2017 | |
| 8/9/2017 | |
| 8/10/2017 | |
| 10/10/2017 | |
| 10/11/2017 | 68 |
| 10/12/2017 | |
| 6/13/2018 | |
| 6/14/2018 | 52 |
| 9/24/2018 | |
| 9/27/2018 | |
| 9/28/2018 | |
| 10/2/2018 | |
| 10/3/2018 | |
| 10/4/2018 | 130 |
| 4/1/2019 | |
| 4/2/2019 | |
| 4/3/2019 | 31 |
| 4/4/2019 | |
| 9/16/2019 | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

| | |
|-----------|----|
| 9/17/2019 | |
| 9/18/2019 | 33 |
| 9/19/2019 | |
| 3/16/2020 | |
| 3/17/2020 | |
| 3/18/2020 | |
| 3/19/2020 | 18 |
| 5/4/2020 | |
| 9/21/2020 | |
| 9/22/2020 | |
| 9/23/2020 | |
| 9/24/2020 | 24 |
| 3/10/2021 | |
| 3/11/2021 | 24 |
| 3/12/2021 | |

FIGURE E.

Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:08 PM

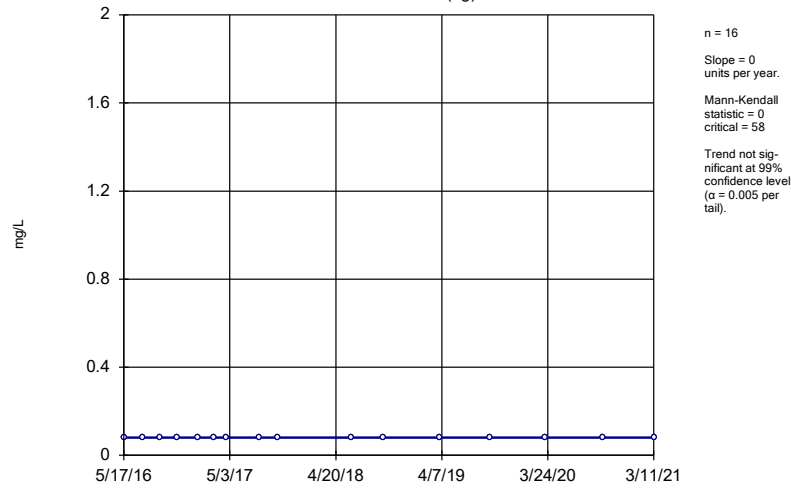
| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|-------------|----------|-------|----------|------|----|------|-----------|-------|-------|--------|
| Boron (mg/L) | WGWC-8 | 0.199 | 63 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWC-8 | 12.18 | 98 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-5 (bg) | -0.1281 | -63 | -53 | Yes | 15 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWC-8 | 19.96 | 106 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWC-19 | -0.01821 | -89 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWC-9 | -0.1359 | -117 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-4 (bg) | 0.7157 | 79 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWC-8 | 13.18 | 84 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWC-8 | 61.15 | 99 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |

Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:08 PM

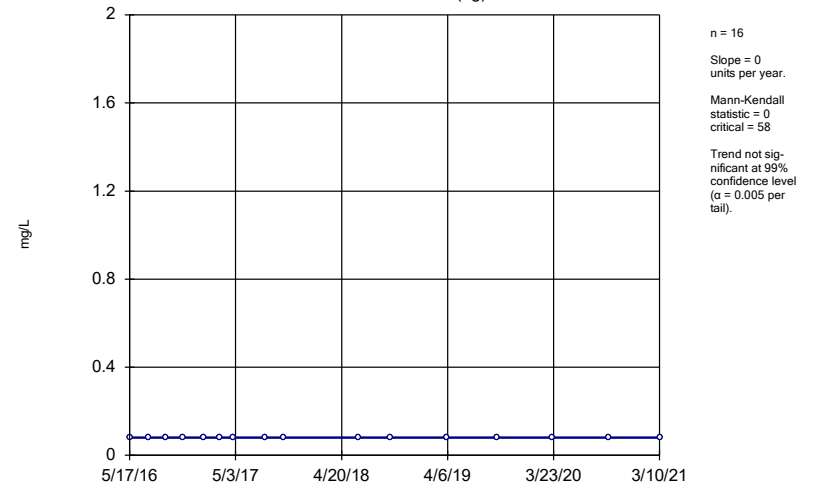
| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|--------------------------------------|--------------------|-----------------|-------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Boron (mg/L) | WGWA-1 (bg) | 0 | 0 | 58 | No | 16 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-18 (bg) | 0 | 0 | 58 | No | 16 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-2 (bg) | 0 | -27 | -58 | No | 16 | 87.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-3 (bg) | 0 | 0 | 58 | No | 16 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-4 (bg) | 0 | 0 | 58 | No | 16 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-5 (bg) | 0 | 0 | 53 | No | 15 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-6 (bg) | 0 | 0 | 58 | No | 16 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGWA-7 (bg) | 0 | 0 | 58 | No | 16 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGW-16 | -0.8188 | -51 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGW-8 | 0.199 | 63 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | WGW-9 | 0.04945 | 50 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-1 (bg) | 0.05215 | 50 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-18 (bg) | -1.185 | -38 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-2 (bg) | -0.5121 | -36 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-3 (bg) | 0 | 8 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-4 (bg) | 0 | -19 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-5 (bg) | -0.07827 | -28 | -53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-6 (bg) | 0 | 7 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGWA-7 (bg) | -0.09755 | -32 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | WGW-8 | 12.18 | 98 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-1 (bg) | 0.1237 | 56 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-18 (bg) | -0.1056 | -32 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-2 (bg) | 0.03627 | 27 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-3 (bg) | 0 | -14 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-4 (bg) | -0.01807 | -51 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-5 (bg) | -0.1281 | -63 | -53 | Yes | 15 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-6 (bg) | 0 | -7 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGWA-7 (bg) | 0 | -7 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGW-16 | -35.21 | -42 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | WGW-8 | 19.96 | 106 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-1 (bg) | 0 | -27 | -81 | No | 20 | 75 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-18 (bg) | -0.01055 | -72 | -81 | No | 20 | 20 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-2 (bg) | -0.01627 | -73 | -81 | No | 20 | 45 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-3 (bg) | 0 | -33 | -81 | No | 20 | 70 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-4 (bg) | -0.005875 | -62 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-5 (bg) | 0 | 33 | 74 | No | 19 | 89.47 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-6 (bg) | -0.005996 | -75 | -81 | No | 20 | 10 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGWA-7 (bg) | 0 | -10 | -81 | No | 20 | 80 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGW-15 | -0.0422 | -76 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGW-19 | -0.01821 | -89 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | WGW-9 | -0.1359 | -117 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-1 (bg) | 0 | -21 | -58 | No | 16 | 87.5 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-18 (bg) | -0.8514 | -38 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-2 (bg) | -0.04053 | -21 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-3 (bg) | 0.01618 | 14 | 58 | No | 16 | 6.25 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-4 (bg) | 0.7157 | 79 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-5 (bg) | 0.02834 | 15 | 53 | No | 15 | 26.67 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-6 (bg) | 0 | -3 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGWA-7 (bg) | 0 | -19 | -58 | No | 16 | 68.75 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGW-16 | -77.41 | -29 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGW-8 | 13.18 | 84 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | WGW-9 | 2.074 | 57 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-1 (bg) | 1.837 | 21 | 58 | No | 16 | 25 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-18 (bg) | -1.093 | -5 | -58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-2 (bg) | 1.593 | 8 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-3 (bg) | 1.928 | 11 | 58 | No | 16 | 6.25 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-4 (bg) | 0.7703 | 17 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-5 (bg) | -0.7739 | -6 | -53 | No | 15 | 13.33 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-6 (bg) | 2.648 | 21 | 58 | No | 16 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGWA-7 (bg) | 0.7294 | 6 | 58 | No | 16 | 18.75 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | WGW-8 | 61.15 | 99 | 58 | Yes | 16 | 0 | n/a | n/a | 0.01 | NP |

Sen's Slope Estimator WGWA-1 (bg)



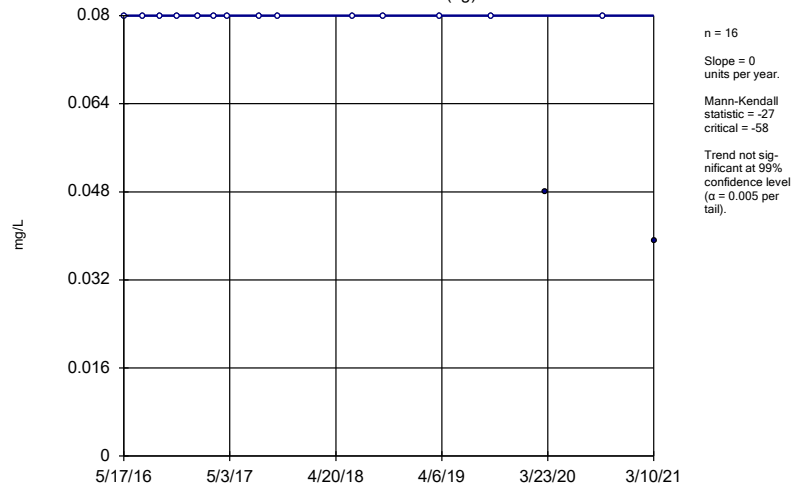
Constituent: Boron Analysis Run 5/11/2021 1:05 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-18 (bg)



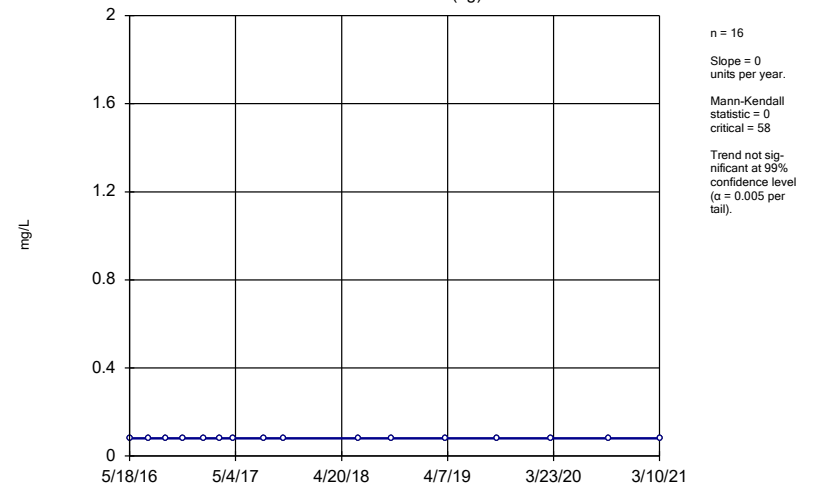
Constituent: Boron Analysis Run 5/11/2021 1:05 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-2 (bg)



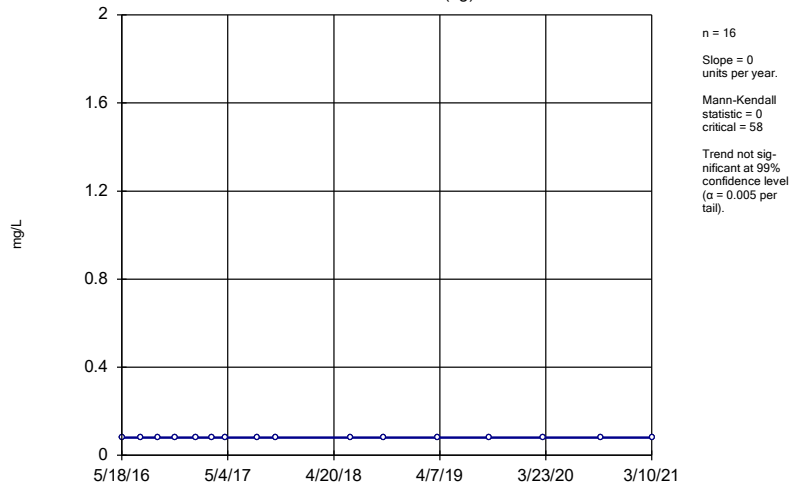
Constituent: Boron Analysis Run 5/11/2021 1:05 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-3 (bg)



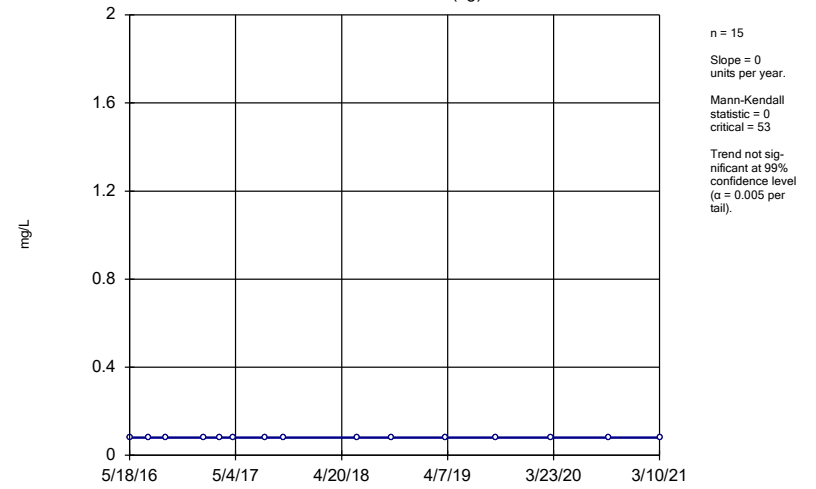
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-4 (bg)



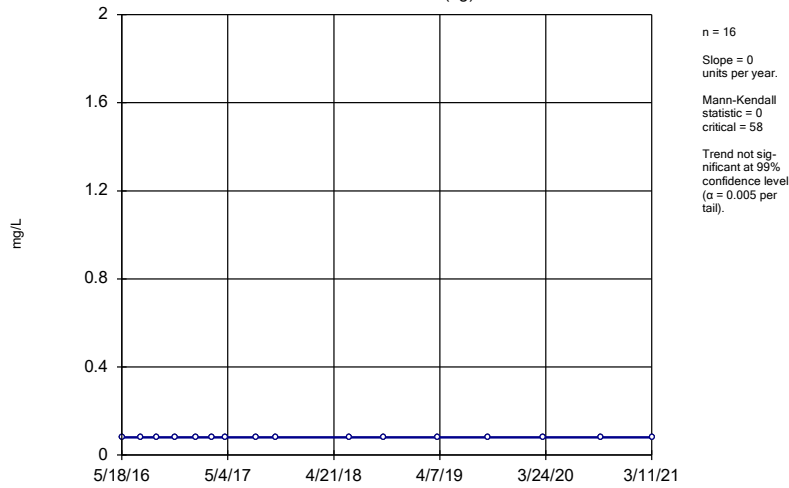
Constituent: Boron Analysis Run 5/11/2021 1:05 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-5 (bg)



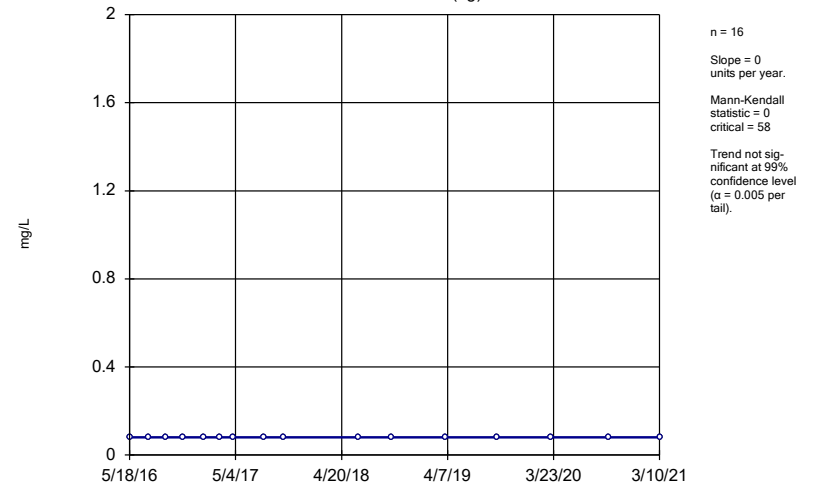
Constituent: Boron Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-6 (bg)



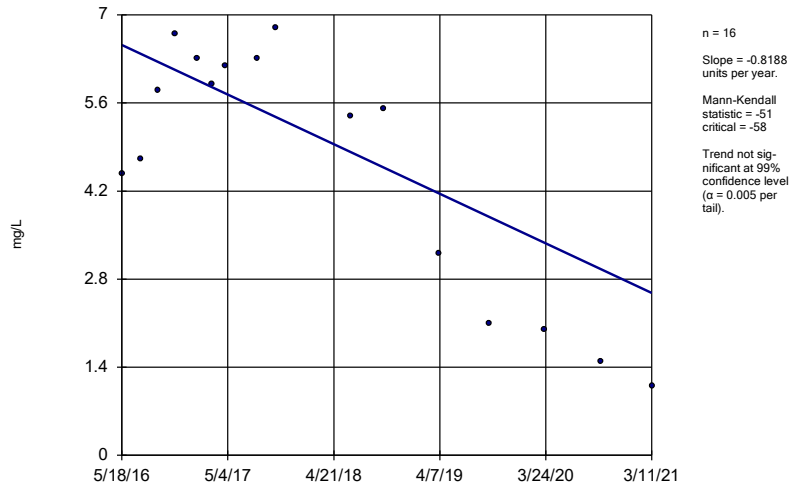
Constituent: Boron Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-7 (bg)



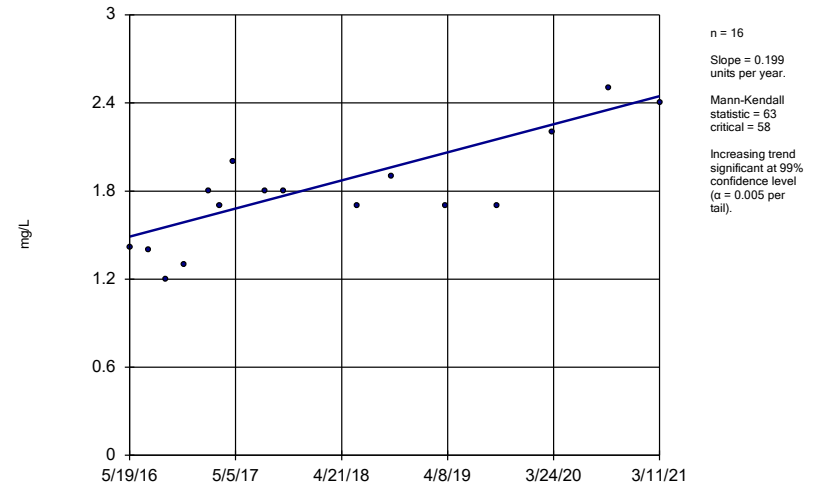
Constituent: Boron Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-16



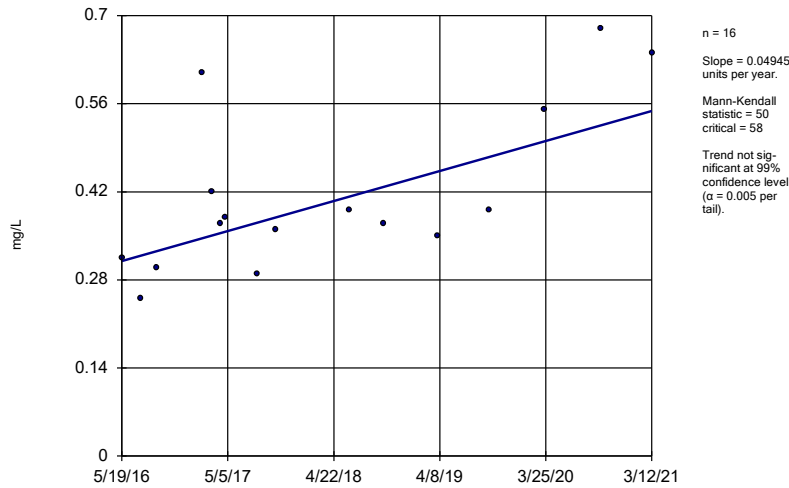
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-8



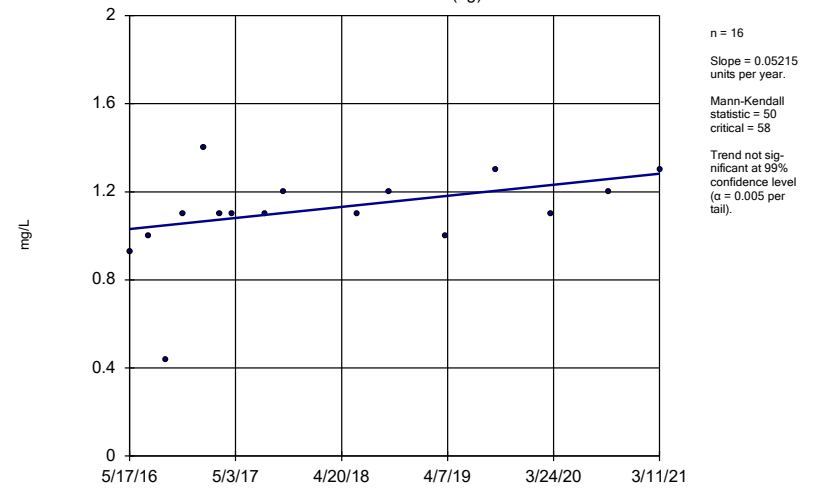
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-9



Constituent: Boron Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

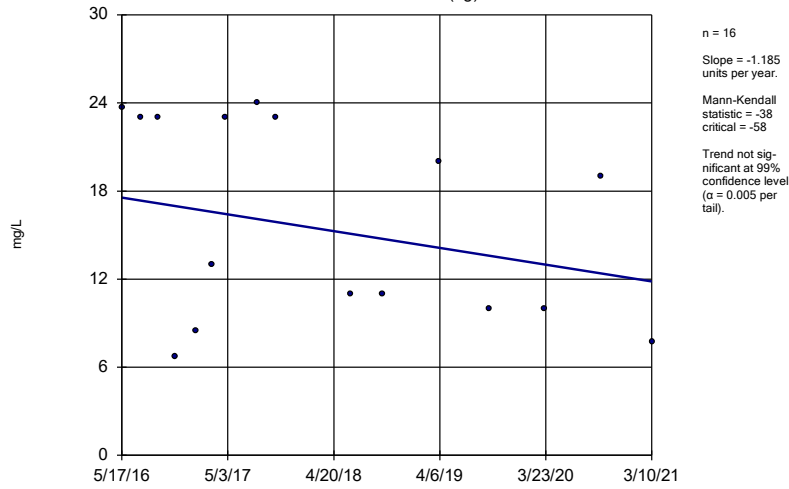
Sen's Slope Estimator
WGWA-1 (bg)



Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

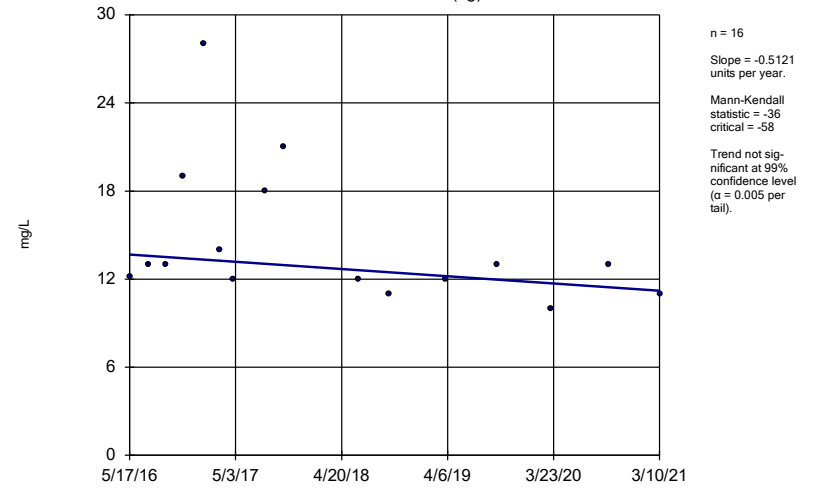
WGWA-18 (bg)



Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

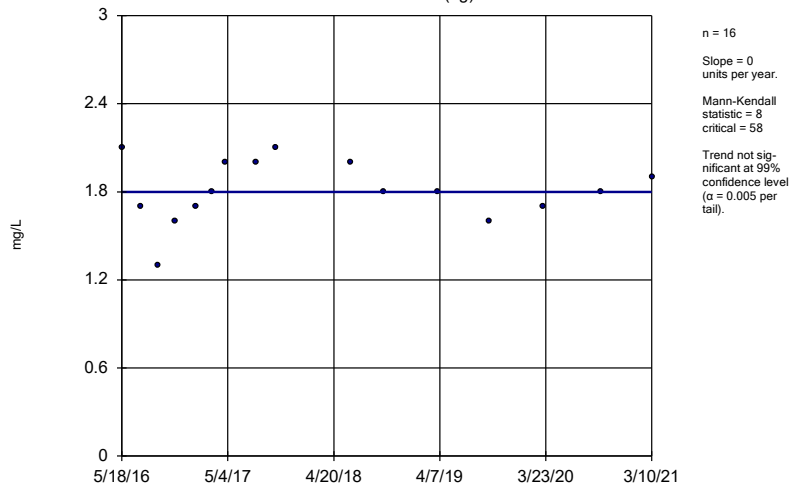
WGWA-2 (bg)



Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

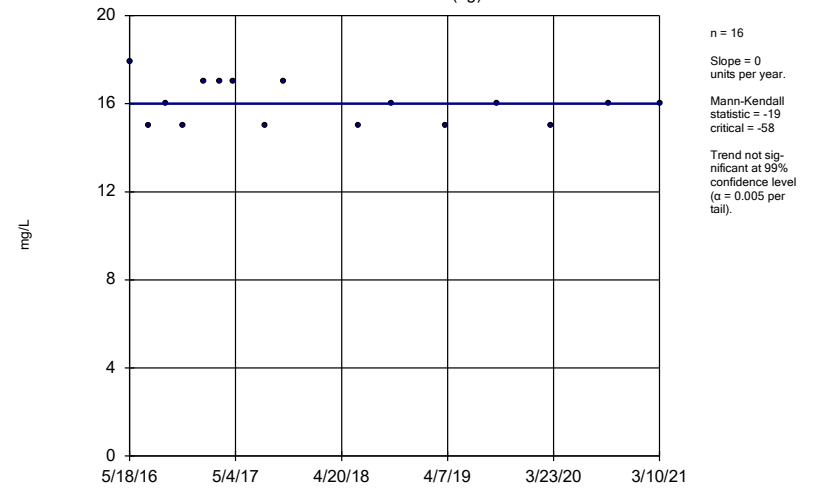
WGWA-3 (bg)



Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

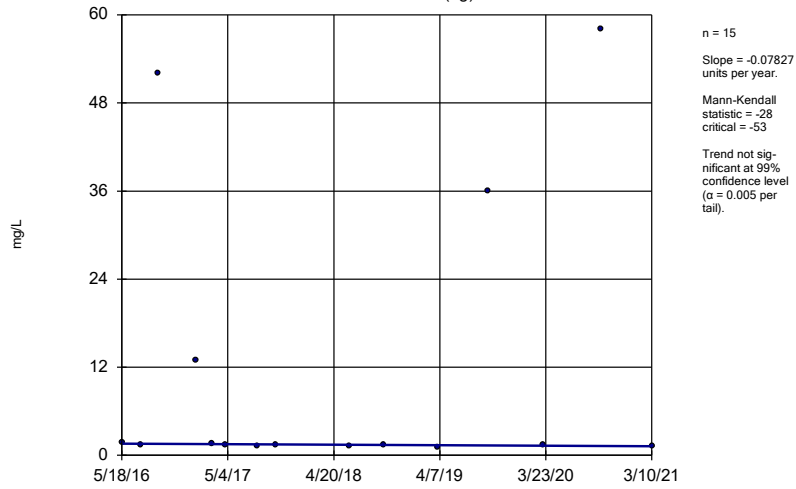
WGWA-4 (bg)



Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

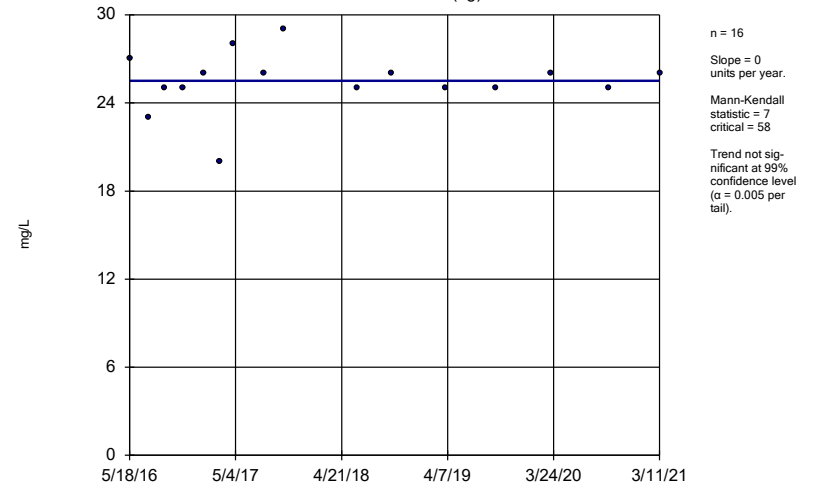
WGWA-5 (bg)



Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

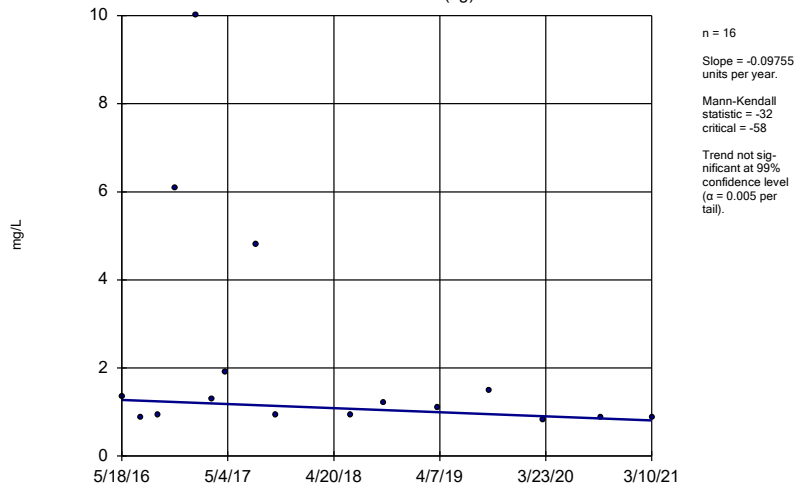
WGWA-6 (bg)



Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

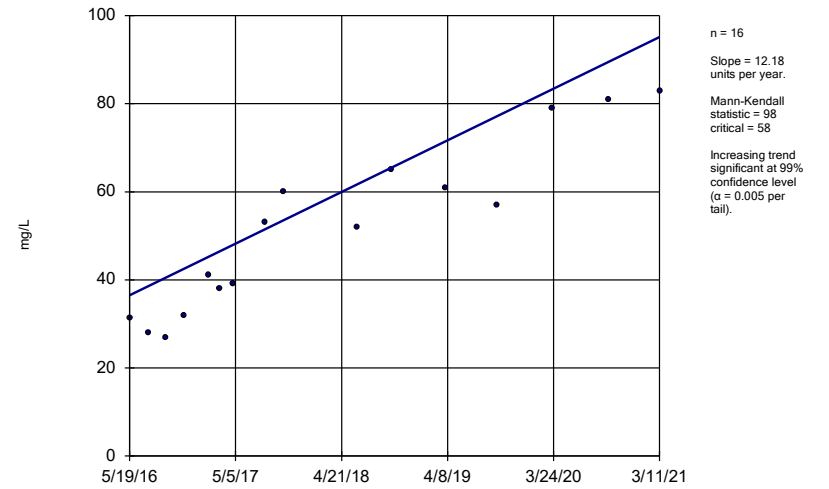
WGWA-7 (bg)



Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

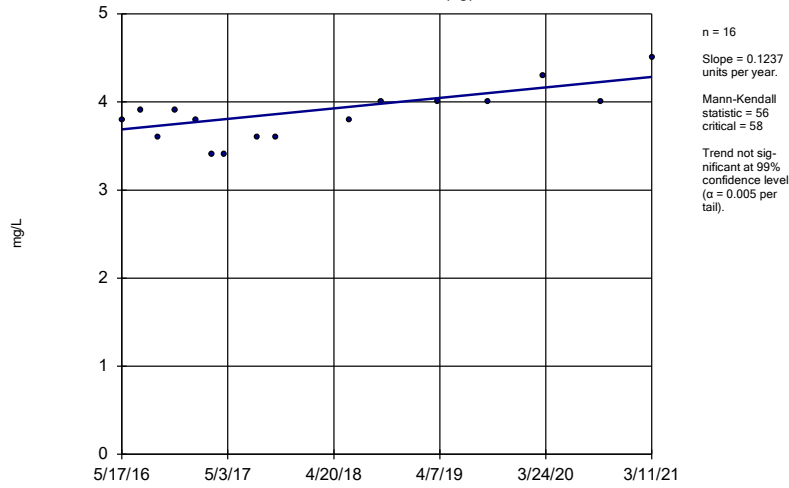
WGWC-8



Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

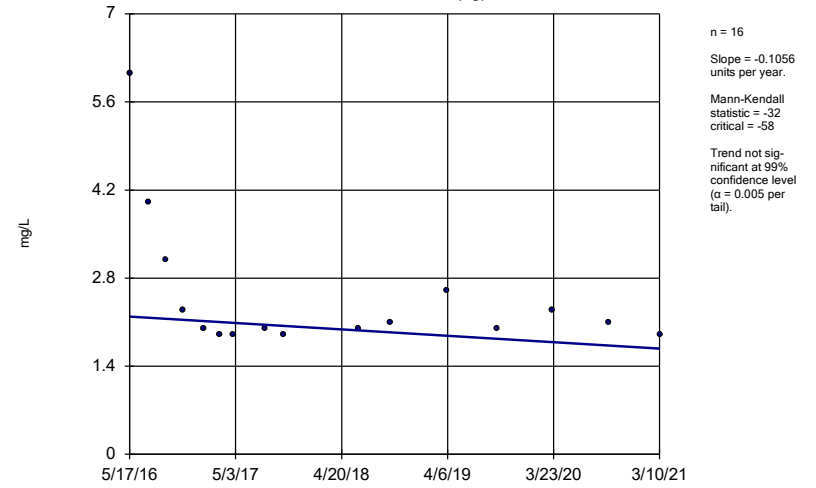
WGWA-1 (bg)



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

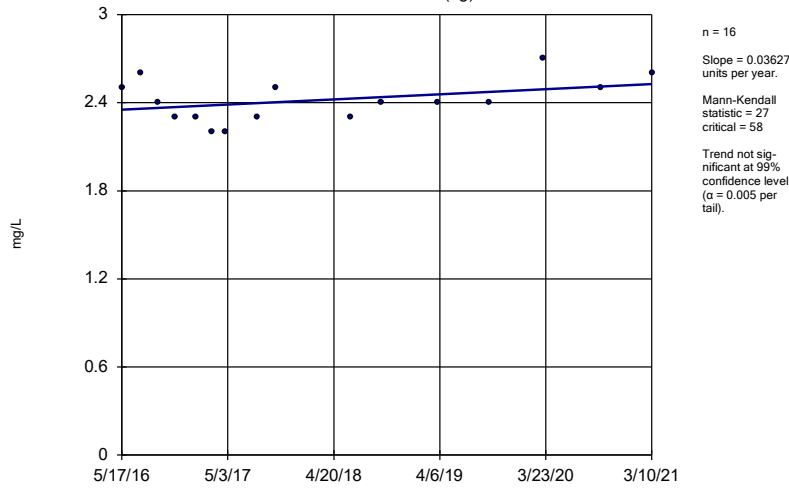
WGWA-18 (bg)



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

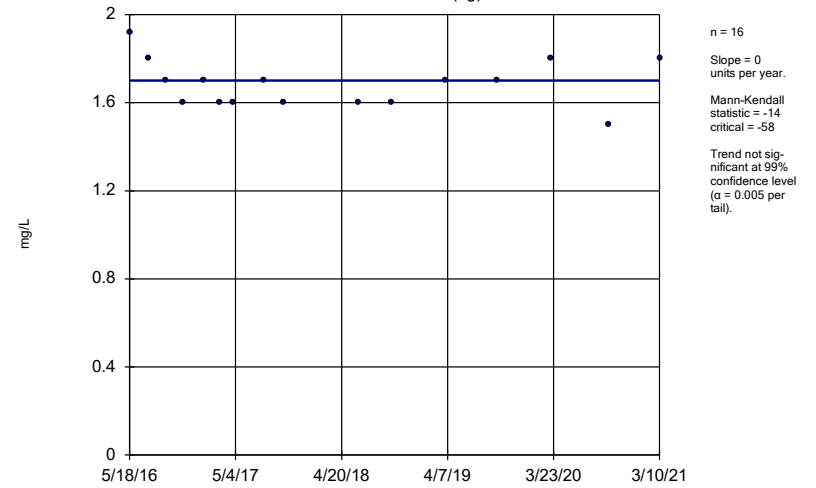
WGWA-2 (bg)



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

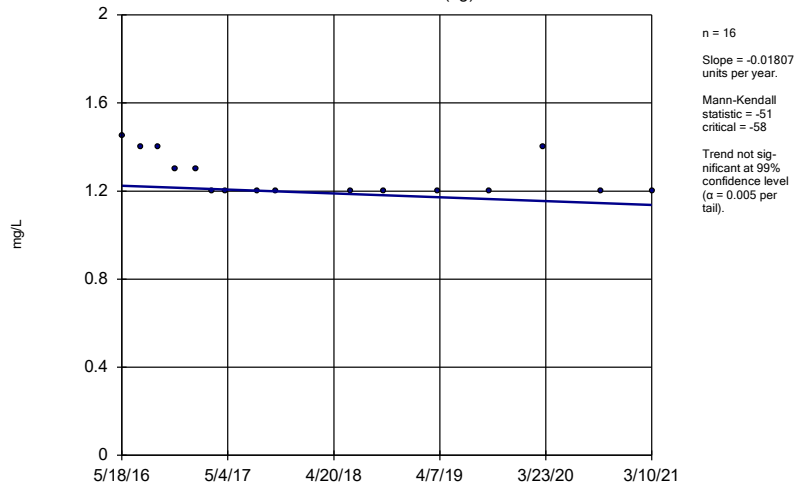
WGWA-3 (bg)



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

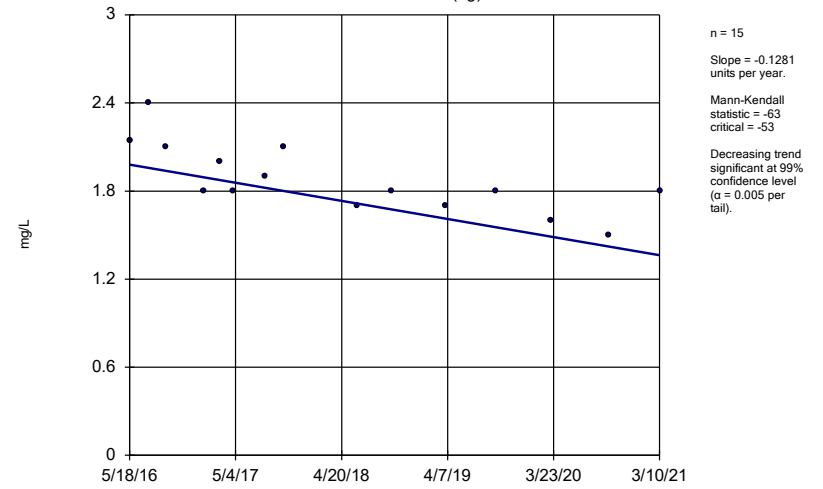
WGWA-4 (bg)



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

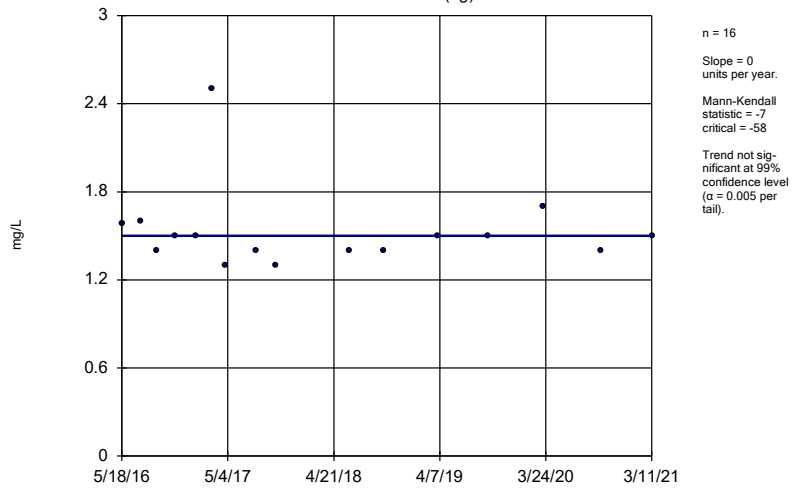
WGWA-5 (bg)



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

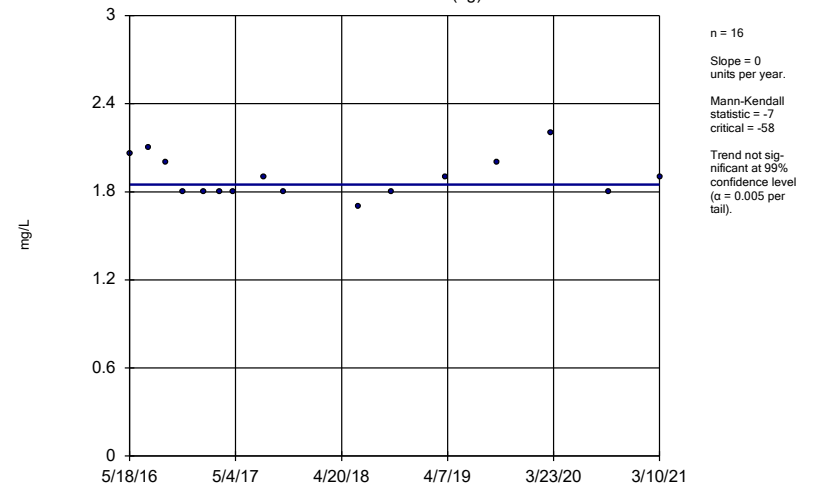
WGWA-6 (bg)



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

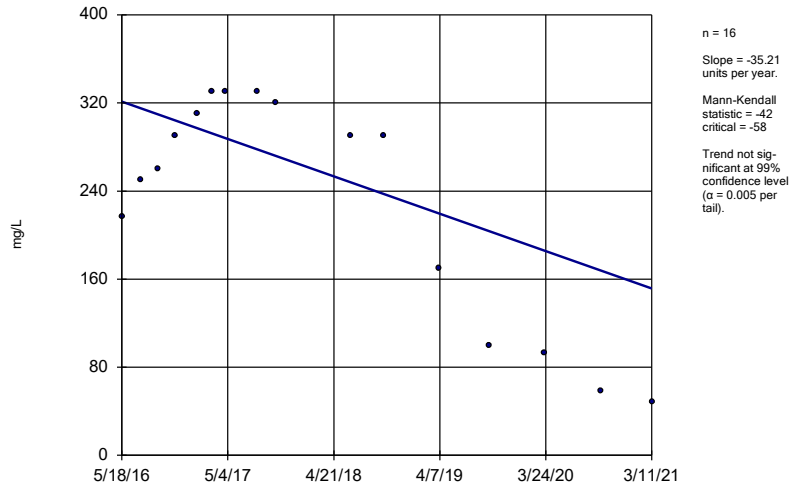
WGWA-7 (bg)



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

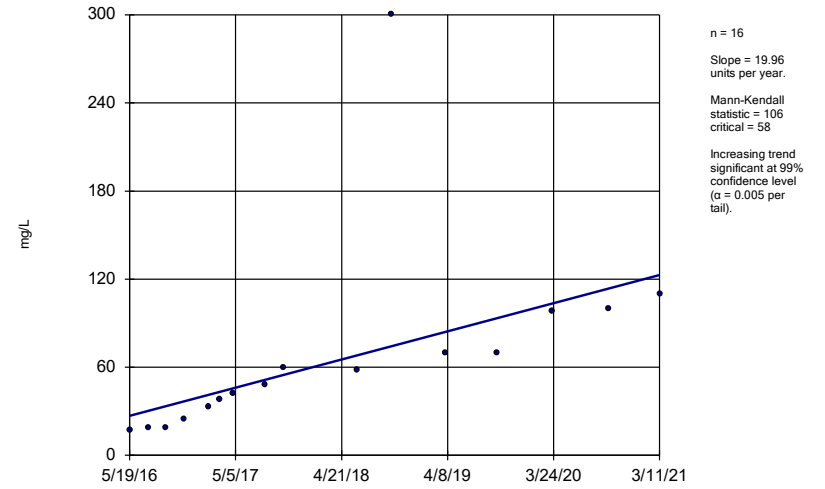
WGWC-16



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

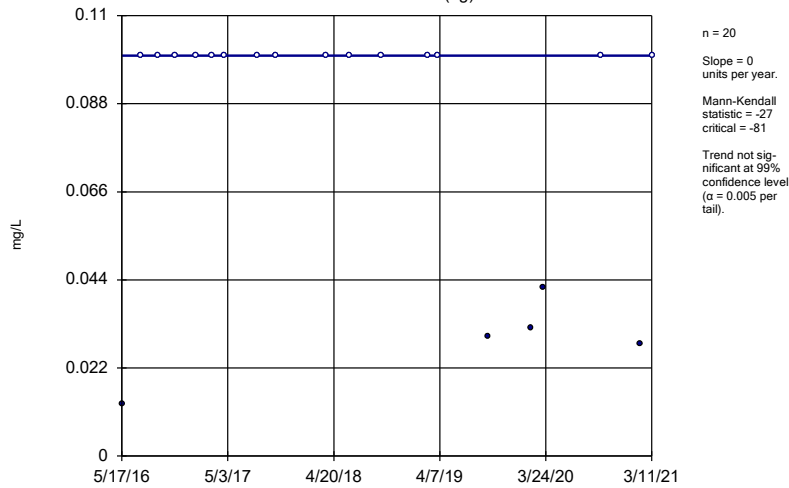
WGWC-8



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

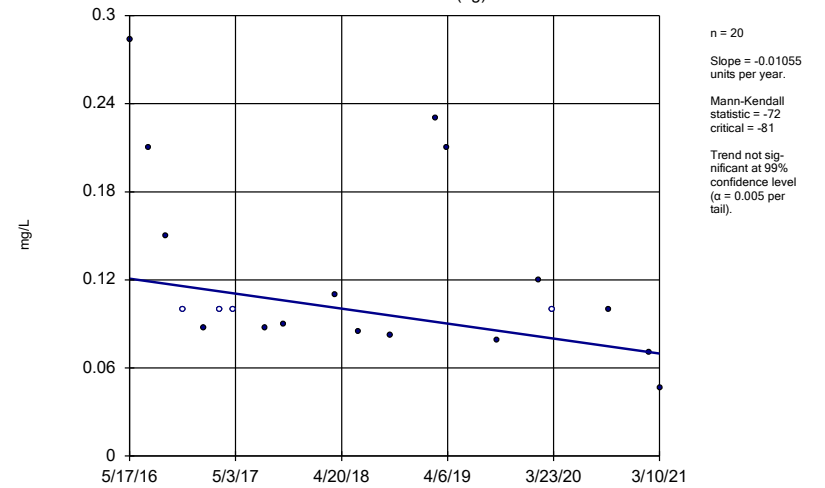
WGWA-1 (bg)



Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

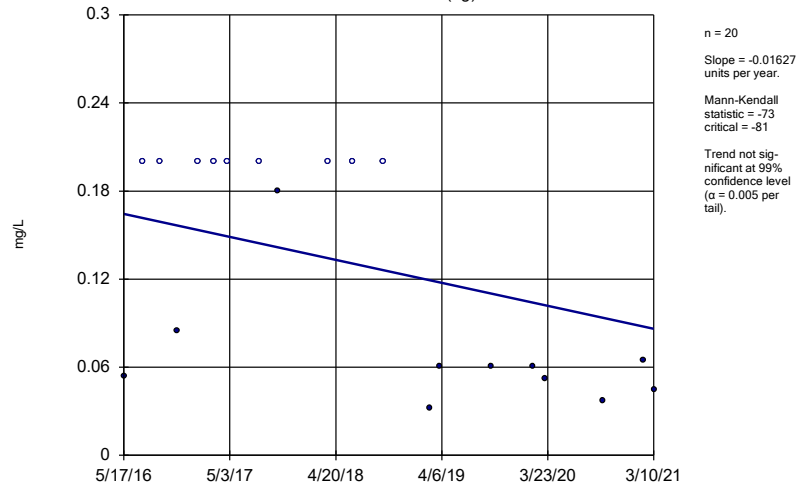
Sen's Slope Estimator

WGWA-18 (bg)



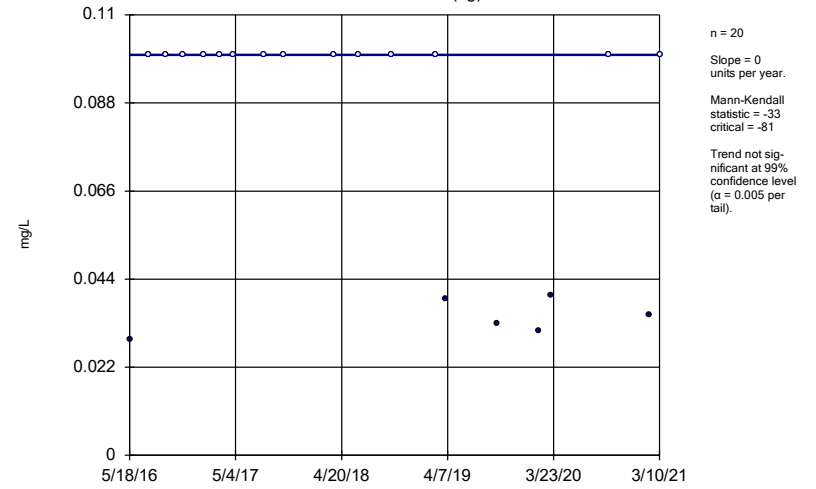
Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-2 (bg)



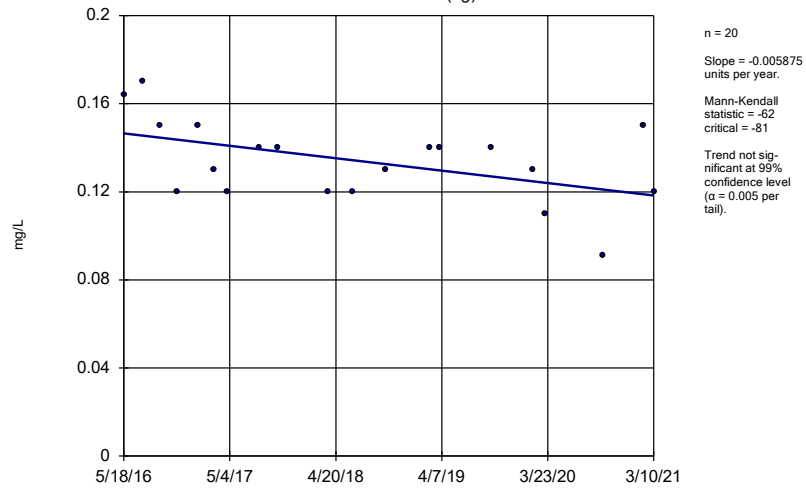
Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-3 (bg)



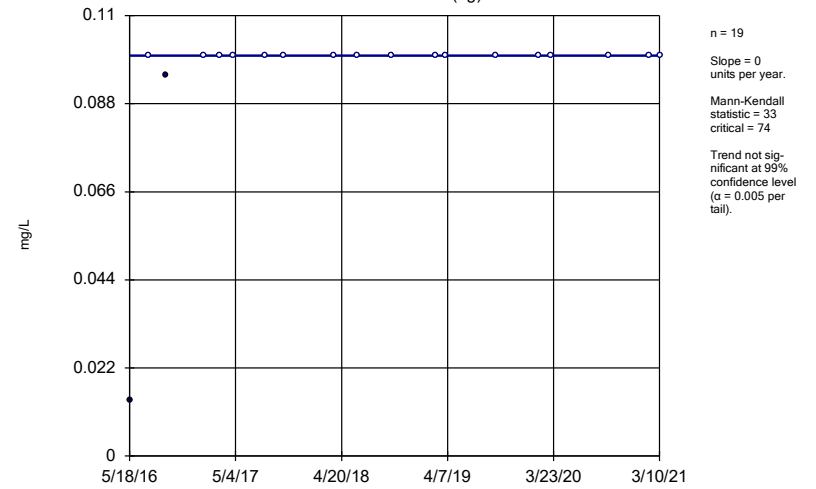
Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-4 (bg)



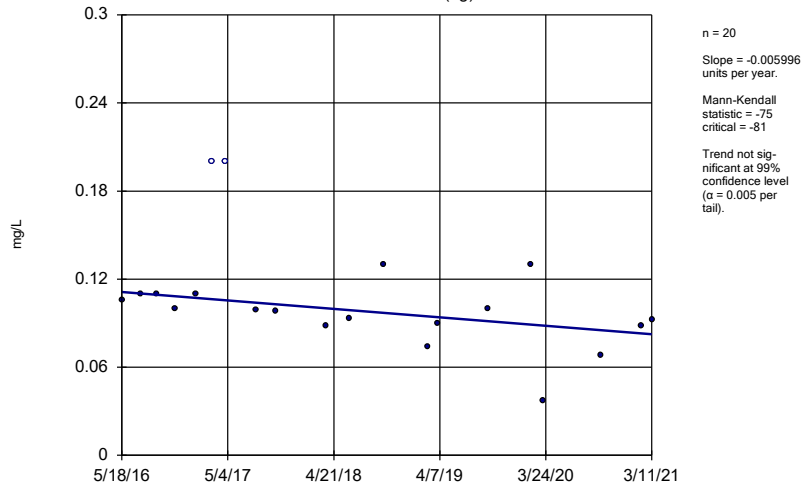
Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-5 (bg)



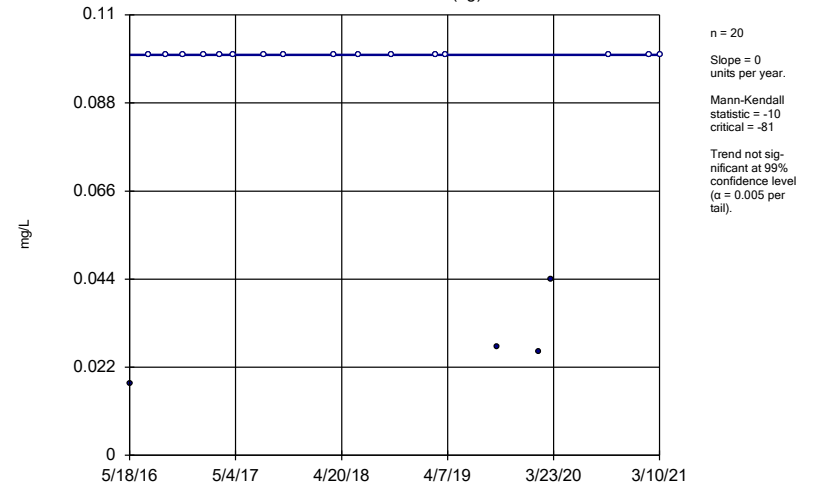
Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-6 (bg)



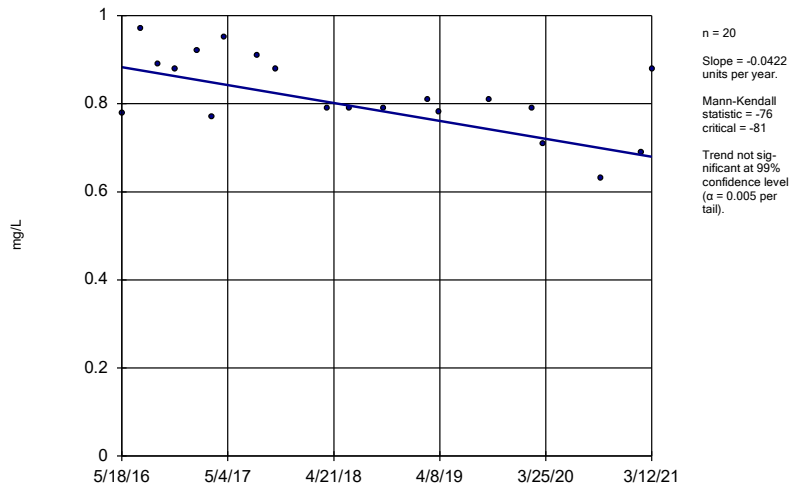
Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-7 (bg)



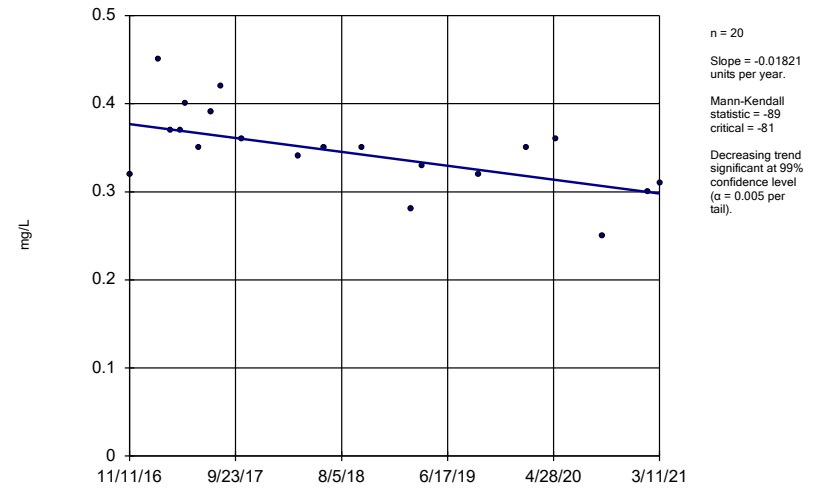
Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-15



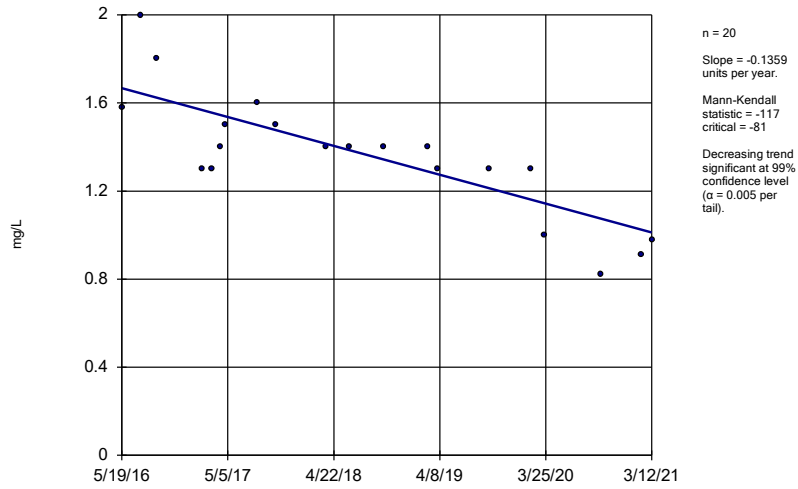
Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-19



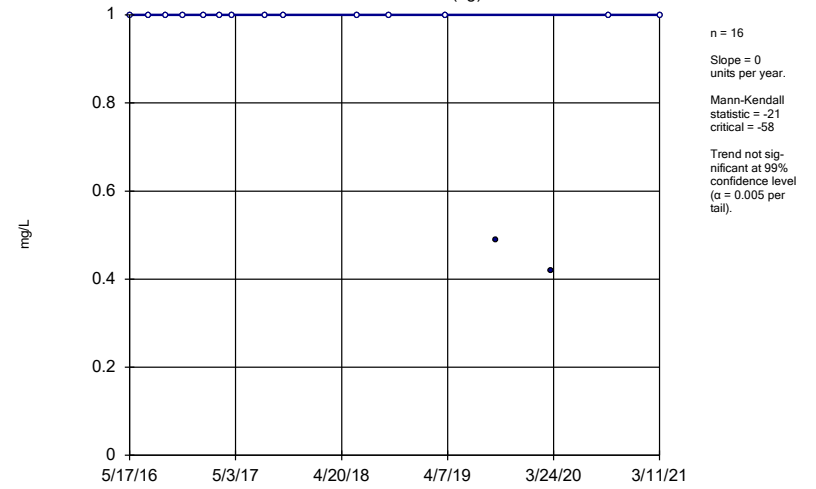
Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWC-9



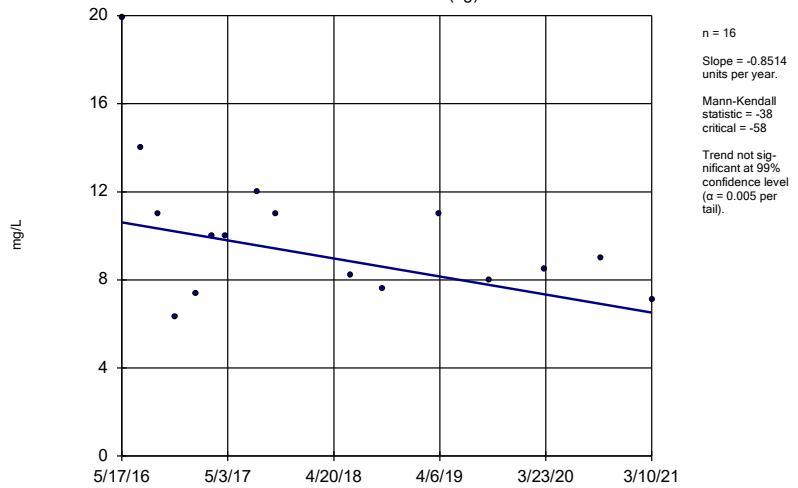
Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-1 (bg)



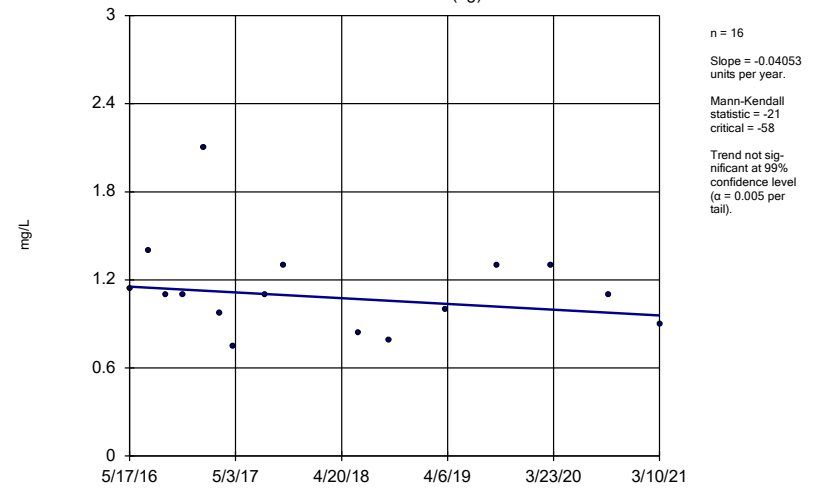
Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-18 (bg)



Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

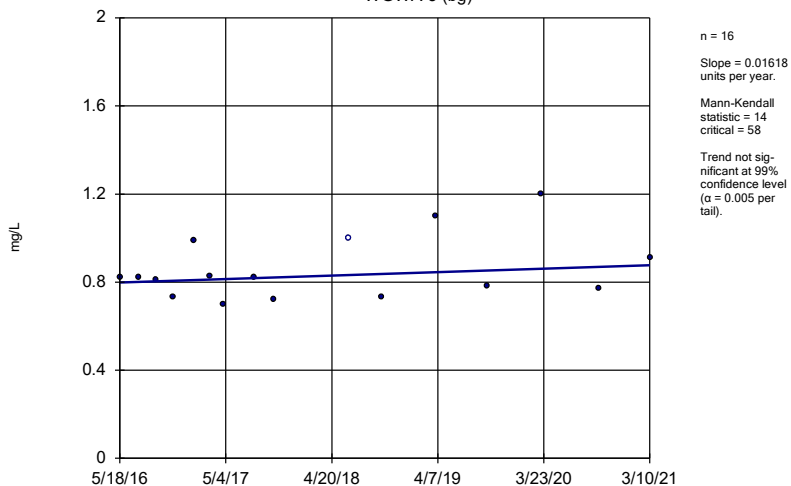
Sen's Slope Estimator WGWA-2 (bg)



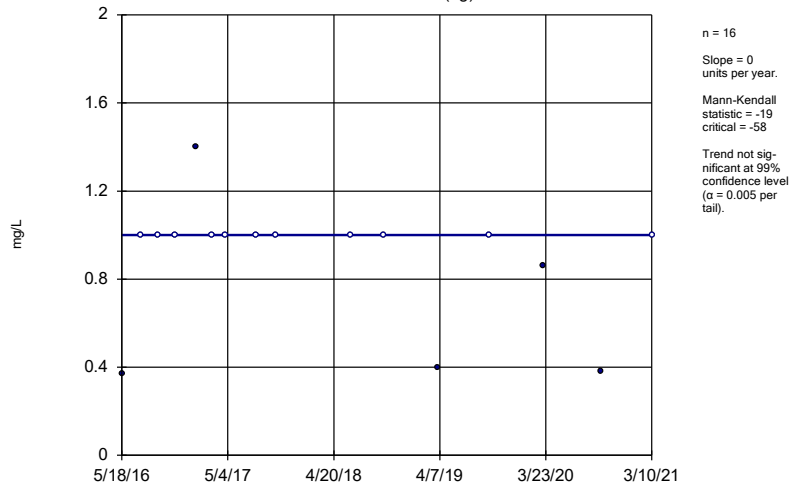
Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-3 (bg)

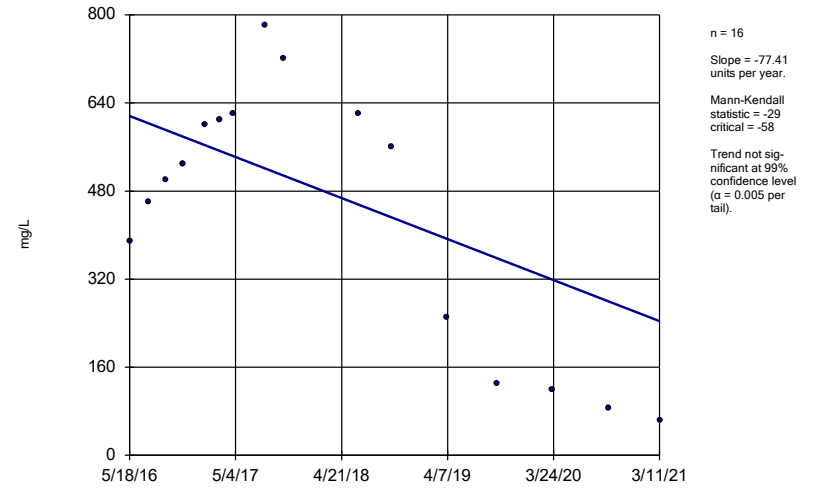


Sen's Slope Estimator
 WGW-7 (bg)



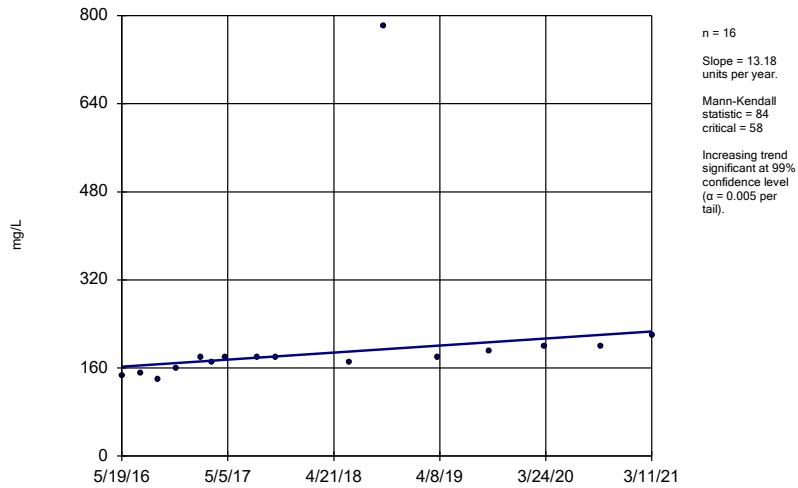
Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
 WGW-16



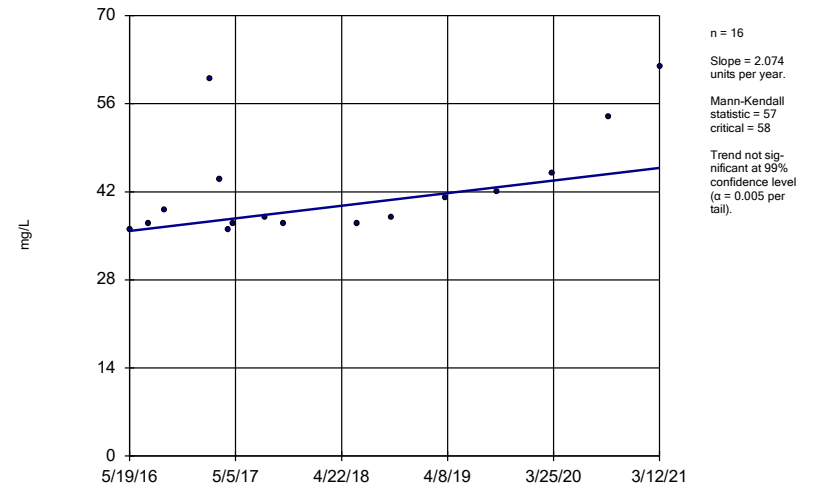
Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
 WGW-8



Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

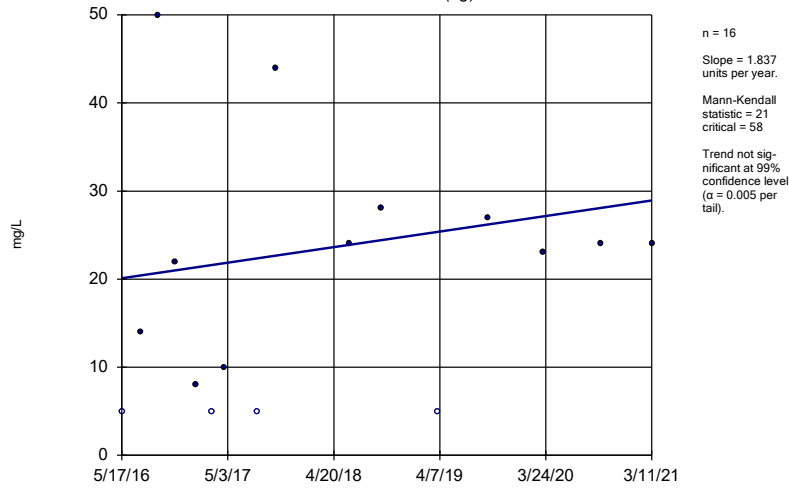
Sen's Slope Estimator
 WGW-9



Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-1 (bg)

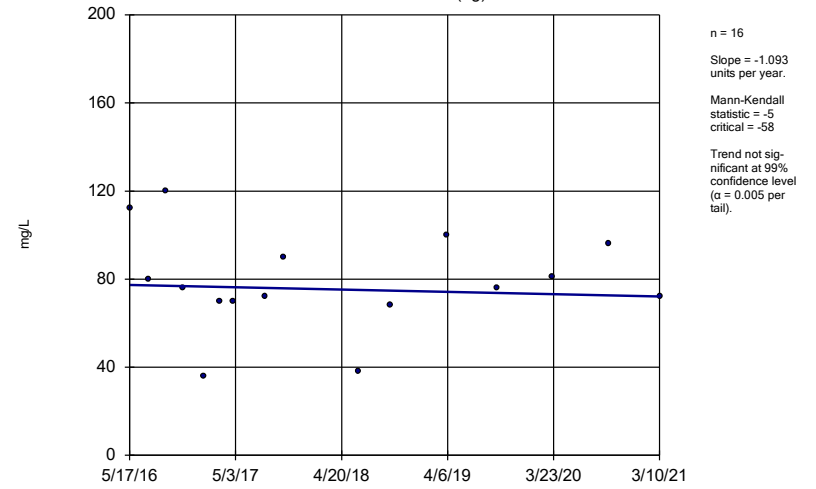


n = 16
Slope = 1.837
units per year.
Mann-Kendall
statistic = 21
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-18 (bg)

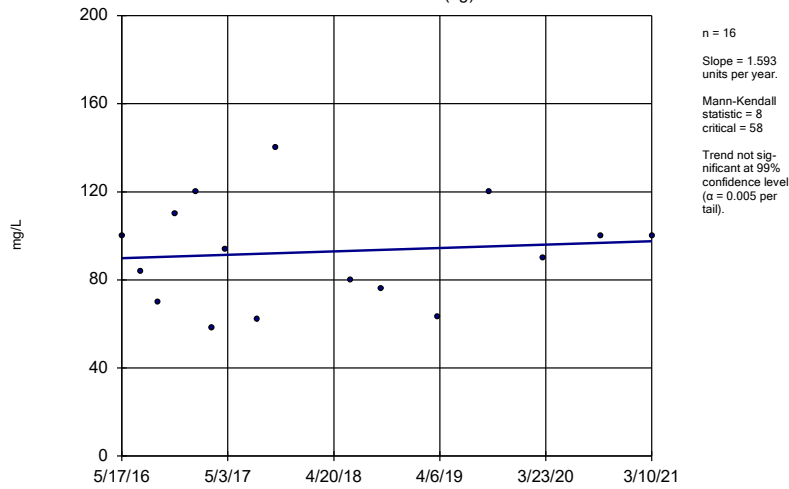


n = 16
Slope = -1.093
units per year.
Mann-Kendall
statistic = -5
critical = -58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-2 (bg)

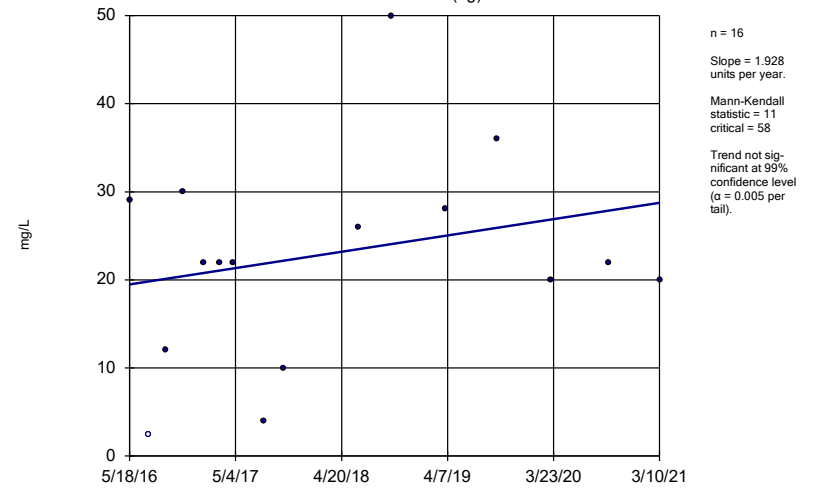


n = 16
Slope = 1.593
units per year.
Mann-Kendall
statistic = 8
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-3 (bg)

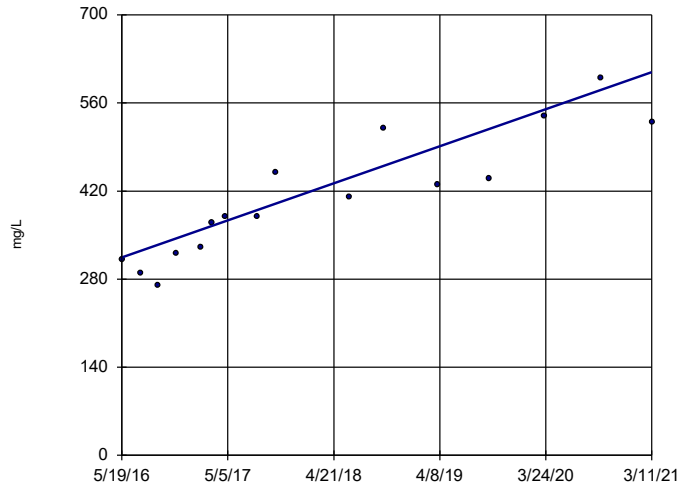


n = 16
Slope = 1.928
units per year.
Mann-Kendall
statistic = 11
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8



n = 16
Slope = 61.15
units per year.
Mann-Kendall
statistic = 99
critical = 58
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:09 PM

| Constituent | Upper Lim. | Lower Lim. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|------------|------------|------|------|---------|-----------|-------|---------|-----------|-----------|---------------------|
| Antimony (mg/L) | 0.0022 | n/a | n/a | 111 | n/a | n/a | 98.2 | n/a | n/a | 0.003368 | NP Inter(NDs) |
| Arsenic (mg/L) | 0.0014 | n/a | n/a | 151 | n/a | n/a | 78.15 | n/a | n/a | 0.0004328 | NP Inter(NDs) |
| Barium (mg/L) | 0.062 | n/a | n/a | 151 | n/a | n/a | 0 | n/a | n/a | 0.0004328 | NP Inter(normality) |
| Beryllium (mg/L) | 0.0025 | n/a | n/a | 151 | n/a | n/a | 92.72 | n/a | n/a | 0.0004328 | NP Inter(NDs) |
| Cadmium (mg/L) | 0.0025 | n/a | n/a | 143 | n/a | n/a | 100 | n/a | n/a | 0.0006523 | NP Inter(NDs) |
| Chromium (mg/L) | 0.0049 | n/a | n/a | 151 | n/a | n/a | 94.7 | n/a | n/a | 0.0004328 | NP Inter(NDs) |
| Cobalt (mg/L) | 0.013 | n/a | n/a | 150 | n/a | n/a | 46.67 | n/a | n/a | 0.0004556 | NP Inter(normality) |
| Combined Radium 226 + 228 (pCi/L) | 10.4 | n/a | n/a | 148 | n/a | n/a | 0 | n/a | n/a | 0.0005048 | NP Inter(normality) |
| Fluoride (mg/L) | 0.284 | n/a | n/a | 159 | n/a | n/a | 48.43 | n/a | n/a | 0.0002871 | NP Inter(normality) |
| Lead (mg/L) | 0.001 | n/a | n/a | 135 | n/a | n/a | 87.41 | n/a | n/a | 0.0009833 | NP Inter(NDs) |
| Lithium (mg/L) | 0.009 | n/a | n/a | 141 | n/a | n/a | 49.65 | n/a | n/a | 0.0007228 | NP Inter(normality) |
| Mercury (mg/L) | 0.0002 | n/a | n/a | 127 | n/a | n/a | 88.98 | n/a | n/a | 0.001482 | NP Inter(NDs) |
| Molybdenum (mg/L) | 0.015 | n/a | n/a | 150 | n/a | n/a | 89.33 | n/a | n/a | 0.0004556 | NP Inter(NDs) |
| Selenium (mg/L) | 0.005 | n/a | n/a | 151 | n/a | n/a | 94.04 | n/a | n/a | 0.0004328 | NP Inter(NDs) |
| Thallium (mg/L) | 0.001 | n/a | n/a | 151 | n/a | n/a | 91.39 | n/a | n/a | 0.0004328 | NP Inter(NDs) |

FIGURE G.

| WANSLEY AP GWPS | | | | | |
|--------------------------------|------------|---------------------------|-------------------|---------------------|-------------------|
| Constituent Name | MCL | CCR-Rule Specified | Background | Federal GWPS | State GWPS |
| Antimony, Total (mg/L) | 0.006 | | 0.0022 | 0.006 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.0014 | 0.01 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.062 | 2 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.0025 | 0.004 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.0025 | 0.005 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0049 | 0.1 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.013 | 0.013 | 0.013 |
| Combined Radium, Total (pCi/L) | 5 | | 10.4 | 10.4 | 10.4 |
| Fluoride, Total (mg/L) | 4 | | 0.284 | 4 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.001 | 0.015 | 0.001 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.009 | 0.04 | 0.009 |
| Mercury, Total (mg/L) | 0.002 | | 0.0002 | 0.002 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.015 | 0.1 | 0.015 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 | 0.002 |

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

Highlighted cells indicate background is higher than established limit.

FIGURE H.

Federal Confidence Intervals - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:19 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>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|-------------|----------------|------------------|--------------|---------------|
| Lithium (mg/L) | WGWC-19 | 0.05511 | 0.04727 | 0.04 | Yes | 19 | 0.05147 | 0.007214 | 0 | None | In(x) | 0.01 | Param. |

Federal Confidence Intervals - All Results

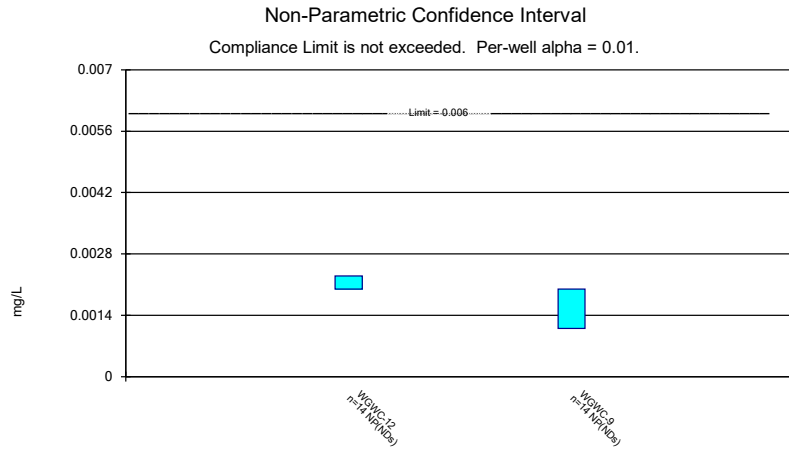
Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:19 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|----------|------------|------------|------------|------|----|-----------|------------|-------|--------------|-----------|-------|----------------|
| Antimony (mg/L) | WGWC-12 | 0.0023 | 0.002 | 0.006 | No | 14 | 0.002021 | 0.00008018 | 92.86 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | WGWC-9 | 0.002 | 0.0011 | 0.006 | No | 14 | 0.001709 | 0.0005998 | 78.57 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-10 | 0.001 | 0.0005 | 0.01 | No | 19 | 0.0008647 | 0.0002579 | 73.68 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-11 | 0.001 | 0.00054 | 0.01 | No | 19 | 0.0009221 | 0.0001852 | 84.21 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-12 | 0.001 | 0.00052 | 0.01 | No | 19 | 0.0009474 | 0.0001578 | 89.47 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-13 | 0.001 | 0.00039 | 0.01 | No | 19 | 0.0007705 | 0.0003275 | 42.11 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | WGWC-14A | 0.0017 | 0.00095 | 0.01 | No | 19 | 0.001255 | 0.0005979 | 63.16 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-15 | 0.002218 | 0.001316 | 0.01 | No | 19 | 0.001767 | 0.0007698 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | WGWC-16 | 0.0014 | 0.0009 | 0.01 | No | 19 | 0.001166 | 0.000338 | 47.37 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | WGWC-17 | 0.001 | 0.00058 | 0.01 | No | 19 | 0.0008316 | 0.0002108 | 47.37 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | WGWC-8 | 0.0011 | 0.00071 | 0.01 | No | 19 | 0.0009447 | 0.000273 | 52.63 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-9 | 0.0017 | 0.00078 | 0.01 | No | 19 | 0.0009974 | 0.0002133 | 84.21 | None | No | 0.01 | NP (NDs) |
| Barium (mg/L) | WGWC-10 | 0.041 | 0.035 | 2 | No | 19 | 0.0389 | 0.006385 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-11 | 0.04001 | 0.03165 | 2 | No | 19 | 0.03632 | 0.008138 | 0 | None | ln(x) | 0.01 | Param. |
| Barium (mg/L) | WGWC-12 | 0.0214 | 0.015 | 2 | No | 19 | 0.01718 | 0.004267 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-13 | 0.05663 | 0.046 | 2 | No | 19 | 0.05132 | 0.009074 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | WGWC-14A | 0.04655 | 0.03101 | 2 | No | 19 | 0.03947 | 0.01419 | 0 | None | sqrt(x) | 0.01 | Param. |
| Barium (mg/L) | WGWC-15 | 0.02388 | 0.01998 | 2 | No | 19 | 0.02193 | 0.003332 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | WGWC-16 | 0.068 | 0.034 | 2 | No | 19 | 0.04971 | 0.01622 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-17 | 0.019 | 0.011 | 2 | No | 19 | 0.01515 | 0.004036 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-19 | 0.005 | 0.0012 | 2 | No | 19 | 0.002804 | 0.001937 | 31.58 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-8 | 0.005 | 0.001 | 2 | No | 19 | 0.002962 | 0.001771 | 36.84 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-9 | 0.005 | 0.00076 | 2 | No | 19 | 0.002486 | 0.001832 | 31.58 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | WGWC-14A | 0.0025 | 0.00025 | 0.004 | No | 19 | 0.001788 | 0.001076 | 68.42 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | WGWC-16 | 0.0025 | 0.00022 | 0.004 | No | 19 | 0.00238 | 0.0005231 | 94.74 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | WGWC-8 | 0.002122 | 0.001547 | 0.004 | No | 19 | 0.001834 | 0.0004906 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | WGWC-9 | 0.0025 | 0.00036 | 0.004 | No | 19 | 0.001387 | 0.001086 | 47.37 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | WGWC-10 | 0.002055 | 0.001385 | 0.1 | No | 19 | 0.001989 | 0.0005705 | 15.79 | Kaplan-Meier | No | 0.01 | Param. |
| Chromium (mg/L) | WGWC-11 | 0.0021 | 0.0017 | 0.1 | No | 19 | 0.0019 | 0.0002749 | 78.95 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-13 | 0.002 | 0.0019 | 0.1 | No | 19 | 0.001984 | 0.00005015 | 89.47 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-14A | 0.002 | 0.0017 | 0.1 | No | 19 | 0.001984 | 0.00006882 | 94.74 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-15 | 0.002 | 0.0015 | 0.1 | No | 19 | 0.001974 | 0.0001147 | 94.74 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-9 | 0.0025 | 0.002 | 0.1 | No | 19 | 0.002026 | 0.0001147 | 94.74 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | WGWC-10 | 0.001624 | 0.0007953 | 0.013 | No | 19 | 0.001274 | 0.0008063 | 5.263 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | WGWC-11 | 0.0025 | 0.00064 | 0.013 | No | 19 | 0.001612 | 0.0009174 | 36.84 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-12 | 0.001165 | 0.0004782 | 0.013 | No | 19 | 0.0008879 | 0.0006689 | 5.263 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | WGWC-13 | 0.0025 | 0.00054 | 0.013 | No | 19 | 0.001957 | 0.0009403 | 73.68 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | WGWC-14A | 0.013 | 0.0041 | 0.013 | No | 19 | 0.008116 | 0.004234 | 0 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-15 | 0.0025 | 0.00015 | 0.013 | No | 19 | 0.002376 | 0.0005391 | 94.74 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | WGWC-16 | 0.014 | 0.00026 | 0.013 | No | 19 | 0.006965 | 0.006383 | 5.263 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-17 | 0.001683 | 0.0007808 | 0.013 | No | 19 | 0.001232 | 0.0007708 | 5.263 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | WGWC-19 | 0.0025 | 0.00024 | 0.013 | No | 19 | 0.001357 | 0.001119 | 47.37 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-8 | 0.0028 | 0.00066 | 0.013 | No | 19 | 0.001889 | 0.0009969 | 47.37 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-9 | 0.0025 | 0.00073 | 0.013 | No | 19 | 0.002407 | 0.0004061 | 94.74 | None | No | 0.01 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | WGWC-10 | 0.4447 | 0.1625 | 10.4 | No | 19 | 0.3036 | 0.241 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-11 | 0.6324 | 0.1607 | 10.4 | No | 19 | 0.3966 | 0.4028 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-12 | 0.6056 | 0.1662 | 10.4 | No | 19 | 0.3859 | 0.3752 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-13 | 0.776 | 0.4499 | 10.4 | No | 19 | 0.6129 | 0.2785 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-14A | 0.8302 | 0.5225 | 10.4 | No | 19 | 0.6987 | 0.3093 | 0 | None | x^(1/3) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-15 | 0.6444 | 0.2927 | 10.4 | No | 19 | 0.4988 | 0.3527 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-16 | 1.819 | 0.7854 | 10.4 | No | 19 | 1.396 | 0.9186 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-17 | 0.5319 | 0.09894 | 10.4 | No | 19 | 0.3154 | 0.3697 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-19 | 0.511 | 0.126 | 10.4 | No | 19 | 0.3426 | 0.3052 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | WGWC-8 | 1.951 | 1.293 | 10.4 | No | 19 | 1.622 | 0.5619 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-9 | 0.4151 | 0.1467 | 10.4 | No | 19 | 0.2809 | 0.2292 | 0 | None | No | 0.01 | Param. |

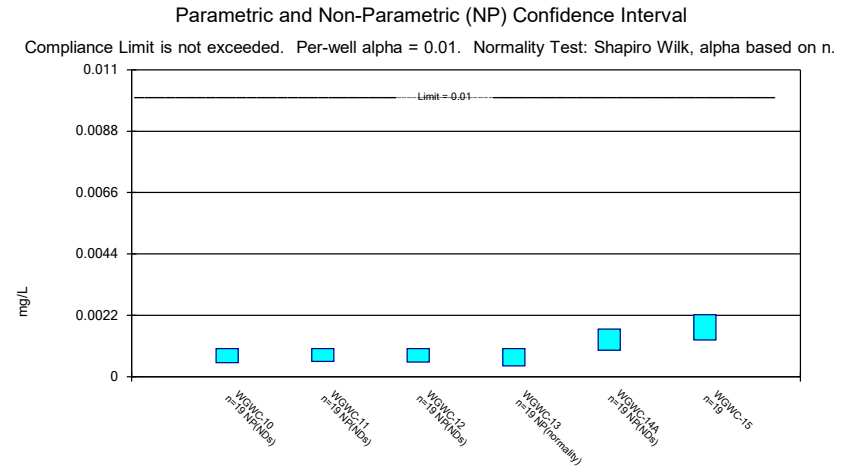
Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:19 PM

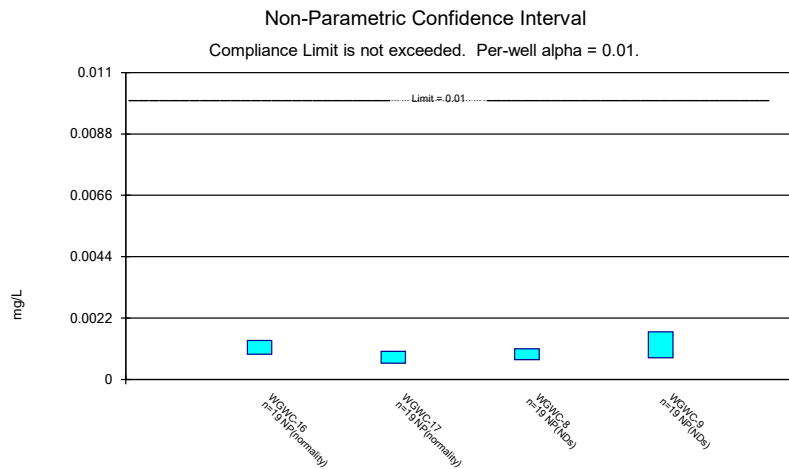
| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|----------------|----------------|----------------|-------------|------------|-----------|----------------|-----------------|----------|--------------|--------------|-------------|----------------|
| Fluoride (mg/L) | WGWC-10 | 0.176 | 0.1288 | 4 | No | 20 | 0.1524 | 0.04163 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-11 | 0.1 | 0.045 | 4 | No | 20 | 0.08335 | 0.03667 | 60 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | WGWC-12 | 0.09725 | 0.07366 | 4 | No | 20 | 0.09225 | 0.0206 | 20 | Kaplan-Meier | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-13 | 0.2939 | 0.2135 | 4 | No | 20 | 0.2537 | 0.07082 | 5 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-14A | 0.1 | 0.04 | 4 | No | 20 | 0.0812 | 0.02968 | 70 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | WGWC-15 | 0.871 | 0.7709 | 4 | No | 20 | 0.821 | 0.08822 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-16 | 0.1736 | 0.07849 | 4 | No | 20 | 0.1598 | 0.1859 | 10 | None | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-17 | 0.1379 | 0.08713 | 4 | No | 20 | 0.1125 | 0.04468 | 5 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-19 | 0.375 | 0.322 | 4 | No | 20 | 0.3485 | 0.0466 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-8 | 0.3489 | 0.1996 | 4 | No | 20 | 0.2743 | 0.1315 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-9 | 1.521 | 1.198 | 4 | No | 20 | 1.36 | 0.2849 | 0 | None | No | 0.01 | Param. |
| Lead (mg/L) | WGWC-10 | 0.001 | 0.00021 | 0.015 | No | 17 | 0.0006853 | 0.0003923 | 58.82 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-11 | 0.001 | 0.00058 | 0.015 | No | 17 | 0.0009018 | 0.0002227 | 82.35 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-13 | 0.001 | 0.00047 | 0.015 | No | 17 | 0.0007529 | 0.0002551 | 47.06 | None | No | 0.01 | NP (normality) |
| Lead (mg/L) | WGWC-14A | 0.001 | 0.00031 | 0.015 | No | 17 | 0.0008112 | 0.0003525 | 76.47 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-15 | 0.001 | 0.0003 | 0.015 | No | 17 | 0.0009588 | 0.0001698 | 94.12 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-16 | 0.001 | 0.00014 | 0.015 | No | 17 | 0.0008982 | 0.0002873 | 88.24 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-17 | 0.001 | 0.00033 | 0.015 | No | 17 | 0.0009135 | 0.0002452 | 88.24 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-8 | 0.001 | 0.00017 | 0.015 | No | 17 | 0.0007994 | 0.0003729 | 76.47 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-9 | 0.001 | 0.00014 | 0.015 | No | 17 | 0.0009494 | 0.0002086 | 94.12 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-10 | 0.01493 | 0.007503 | 0.04 | No | 19 | 0.01177 | 0.007138 | 0 | None | sqrt(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-11 | 0.005 | 0.0018 | 0.04 | No | 19 | 0.004437 | 0.001341 | 84.21 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-12 | 0.007846 | 0.006125 | 0.04 | No | 19 | 0.006821 | 0.001782 | 5.263 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | WGWC-13 | 0.005 | 0.0037 | 0.04 | No | 19 | 0.004421 | 0.001082 | 73.68 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-14A | 0.005 | 0.0025 | 0.04 | No | 19 | 0.004111 | 0.001325 | 63.16 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-15 | 0.007289 | 0.005532 | 0.04 | No | 19 | 0.006411 | 0.001501 | 10.53 | None | No | 0.01 | Param. |
| Lithium (mg/L) | WGWC-16 | 0.01057 | 0.006798 | 0.04 | No | 19 | 0.008684 | 0.003222 | 5.263 | None | No | 0.01 | Param. |
| Lithium (mg/L) | WGWC-17 | 0.005639 | 0.004704 | 0.04 | No | 19 | 0.005211 | 0.0008379 | 5.263 | None | ln(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-19 | 0.05511 | 0.04727 | 0.04 | Yes | 19 | 0.05147 | 0.007214 | 0 | None | ln(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-8 | 0.018 | 0.013 | 0.04 | No | 19 | 0.01724 | 0.0103 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | WGWC-9 | 0.03842 | 0.03279 | 0.04 | No | 19 | 0.03561 | 0.004809 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | WGWC-10 | 0.015 | 0.00093 | 0.1 | No | 19 | 0.01352 | 0.004439 | 89.47 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-11 | 0.015 | 0.0017 | 0.1 | No | 19 | 0.01357 | 0.004289 | 89.47 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-12 | 0.015 | 0.0009 | 0.1 | No | 19 | 0.01071 | 0.006545 | 68.42 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-13 | 0.00491 | 0.0016 | 0.1 | No | 19 | 0.004216 | 0.004868 | 15.79 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | WGWC-14A | 0.015 | 0.001 | 0.1 | No | 19 | 0.01426 | 0.003212 | 94.74 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-15 | 0.006785 | 0.003297 | 0.1 | No | 19 | 0.005316 | 0.003485 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | WGWC-17 | 0.005469 | 0.002641 | 0.1 | No | 19 | 0.004279 | 0.002553 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | WGWC-19 | 0.015 | 0.0012 | 0.1 | No | 19 | 0.006347 | 0.006791 | 36.84 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | WGWC-9 | 0.0071 | 0.003 | 0.1 | No | 19 | 0.005396 | 0.003456 | 0 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | WGWC-10 | 0.005 | 0.00031 | 0.05 | No | 19 | 0.004753 | 0.001076 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-11 | 0.005 | 0.00049 | 0.05 | No | 19 | 0.004763 | 0.001035 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-12 | 0.005 | 0.0021 | 0.05 | No | 19 | 0.004847 | 0.0006653 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-14A | 0.005 | 0.0003 | 0.05 | No | 19 | 0.004753 | 0.001078 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-15 | 0.005 | 0.0005 | 0.05 | No | 19 | 0.004763 | 0.001032 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-16 | 0.0111 | 0.005817 | 0.05 | No | 19 | 0.008461 | 0.004514 | 0 | None | No | 0.01 | Param. |
| Selenium (mg/L) | WGWC-19 | 0.005 | 0.00036 | 0.05 | No | 19 | 0.004756 | 0.001064 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-8 | 0.003858 | 0.003102 | 0.05 | No | 19 | 0.003504 | 0.0006592 | 0 | None | x^(1/3) | 0.01 | Param. |
| Selenium (mg/L) | WGWC-9 | 0.002823 | 0.002196 | 0.05 | No | 19 | 0.002509 | 0.0005347 | 0 | None | No | 0.01 | Param. |
| Thallium (mg/L) | WGWC-10 | 0.001 | 0.000085 | 0.002 | No | 19 | 0.0009518 | 0.0002099 | 94.74 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | WGWC-11 | 0.001 | 0.00016 | 0.002 | No | 19 | 0.0009558 | 0.0001927 | 94.74 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | WGWC-14A | 0.001 | 0.00013 | 0.002 | No | 19 | 0.0005142 | 0.0004267 | 42.11 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | WGWC-16 | 0.001 | 0.00015 | 0.002 | No | 19 | 0.0004768 | 0.0004122 | 36.84 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | WGWC-19 | 0.001 | 0.00018 | 0.002 | No | 19 | 0.0009568 | 0.0001881 | 94.74 | None | No | 0.01 | NP (NDs) |



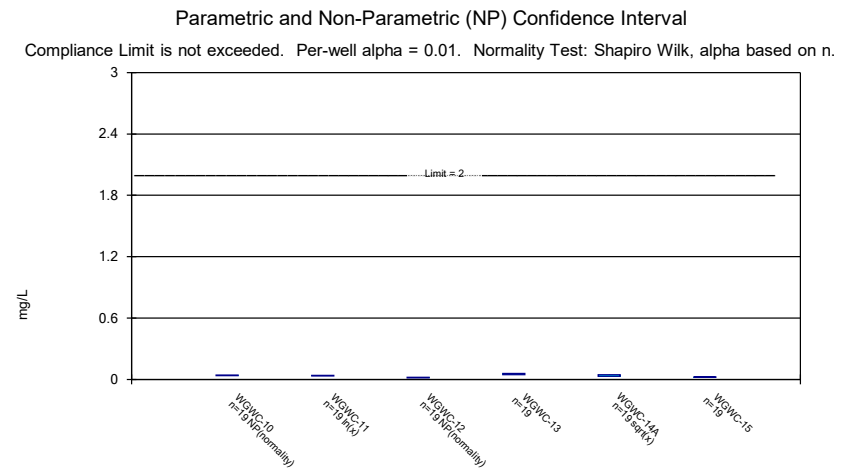
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Arsenic Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



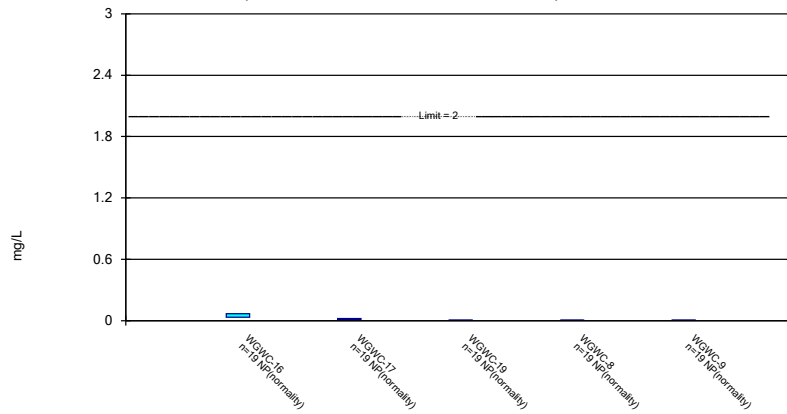
Constituent: Arsenic Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Barium Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

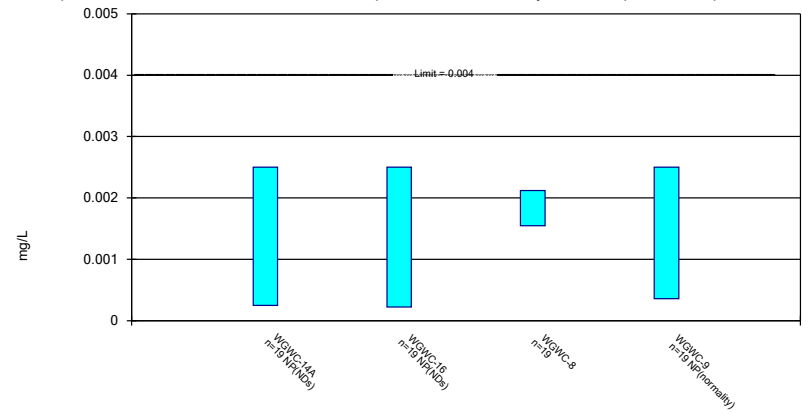
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Constituent: Barium Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

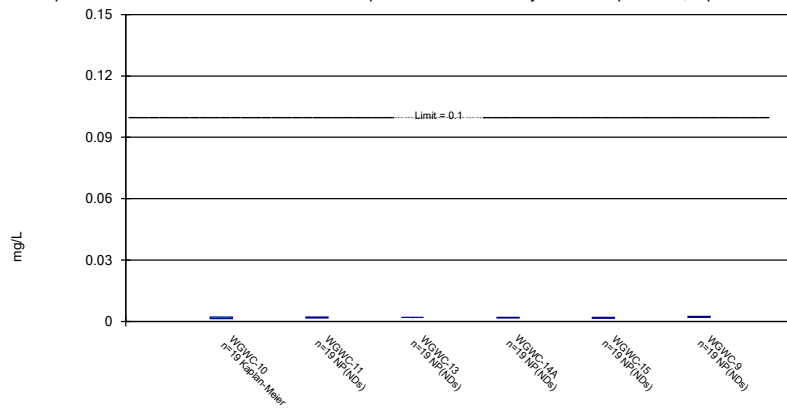
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Constituent: Beryllium Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

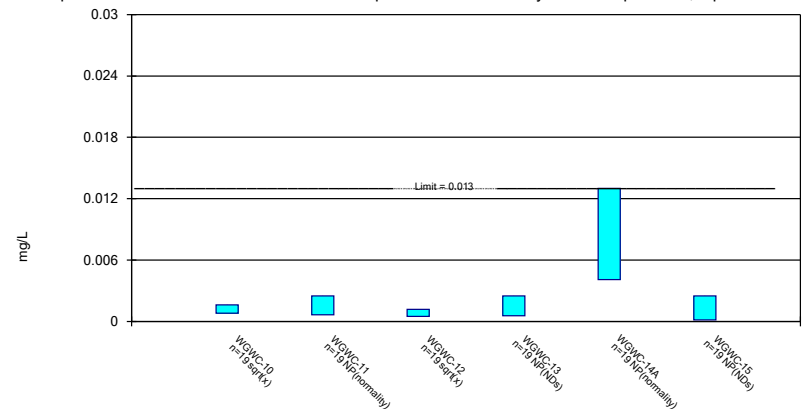
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Constituent: Chromium Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

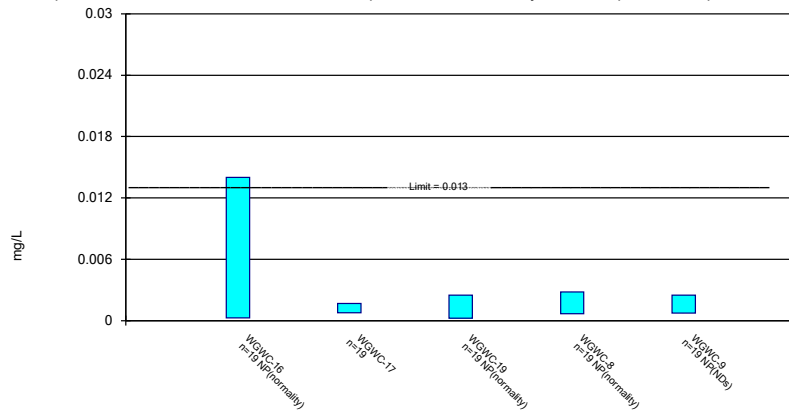
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Constituent: Cobalt Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

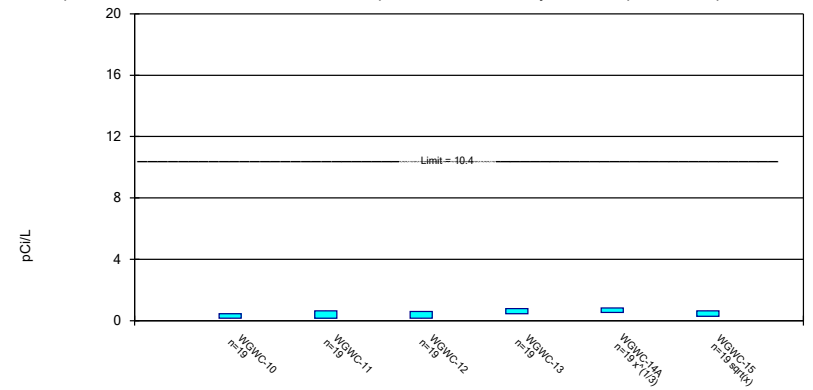
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

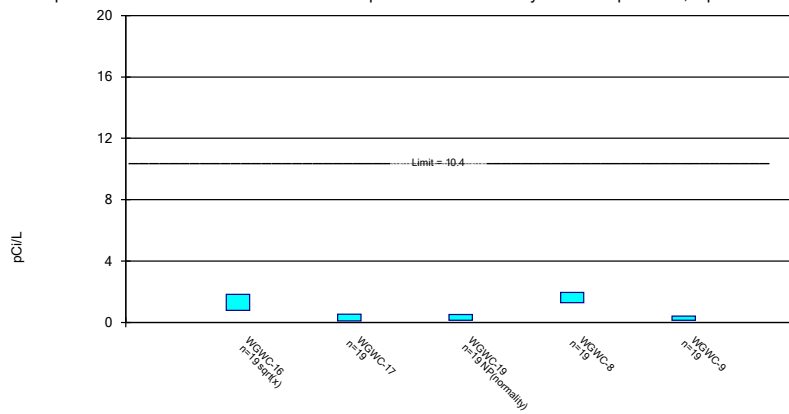
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

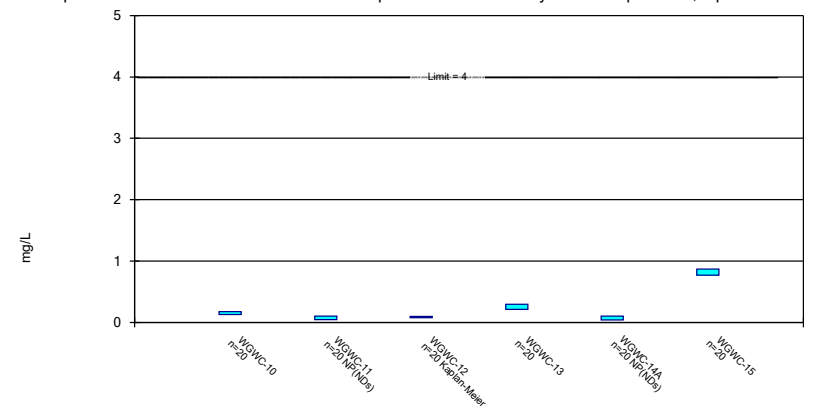
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

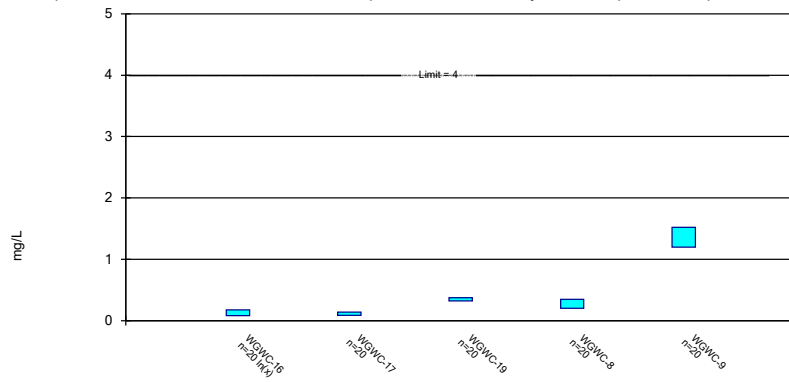
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

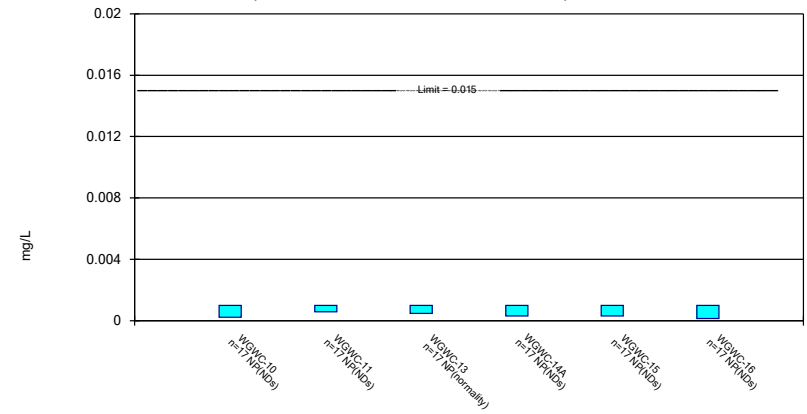
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

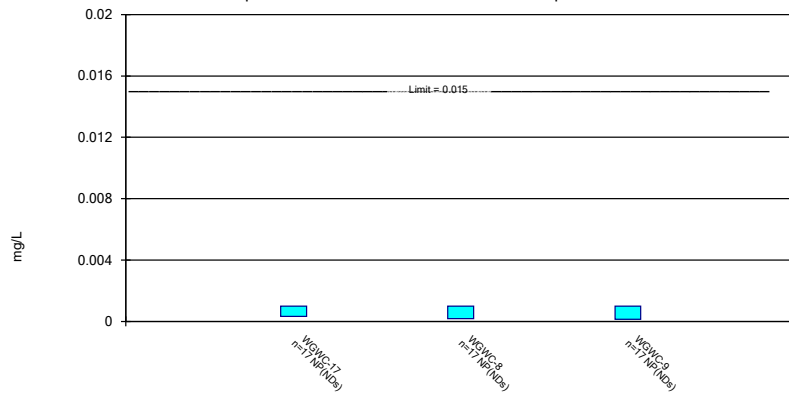
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

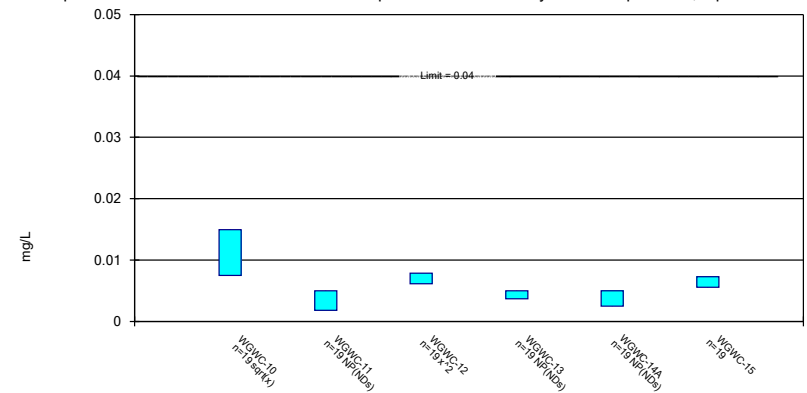
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

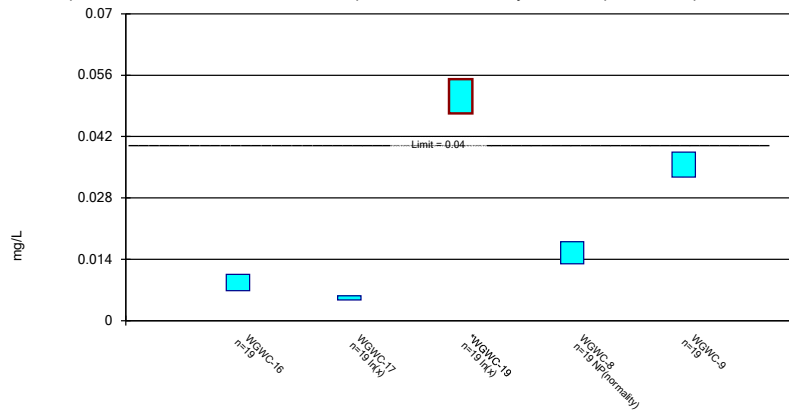
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

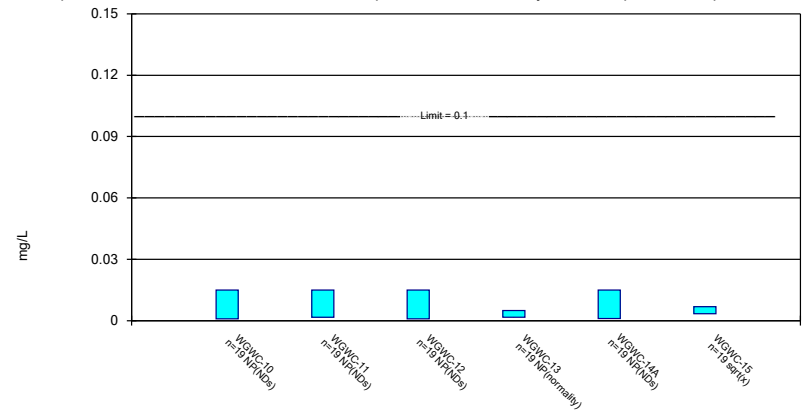
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

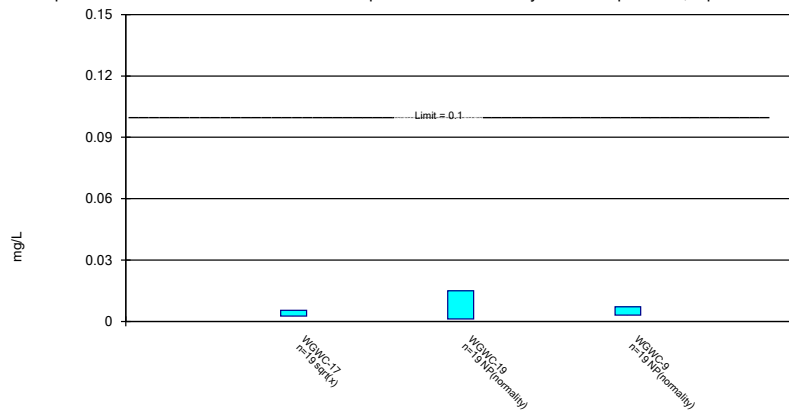
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

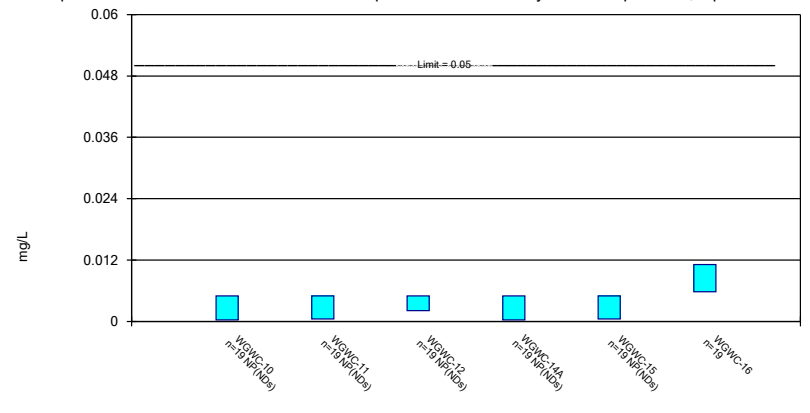
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

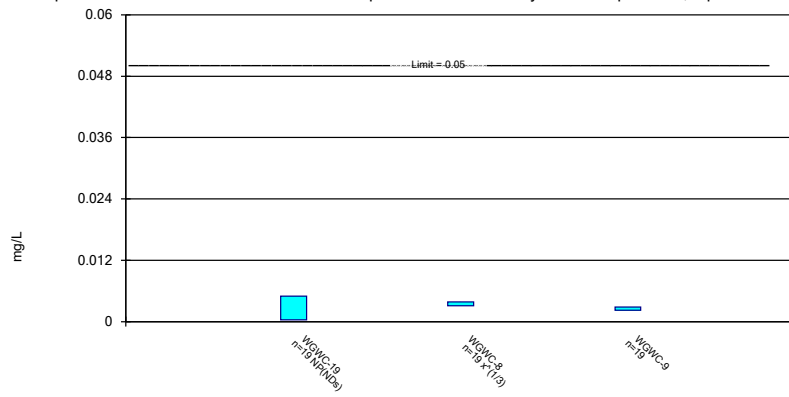
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

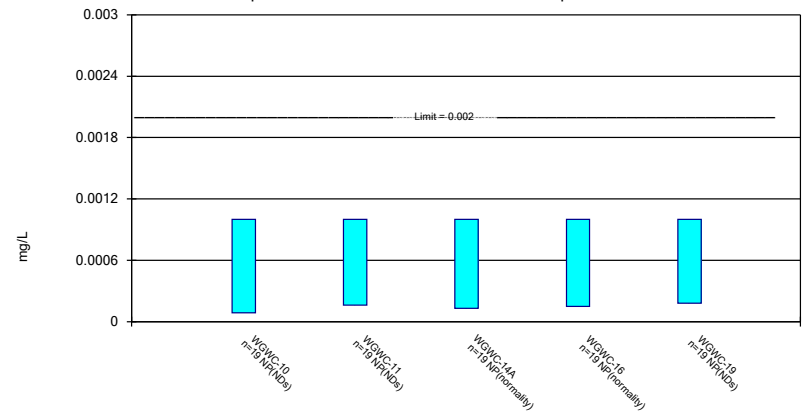
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE I.

State Confidence Intervals - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:14 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>Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|------------------|-------------|----------------|------------------|--------------|----------------|
| Lithium (mg/L) | WGWC-19 | 0.05511 | 0.04727 | 0.009 | Yes | 19 | 0.05147 | 0.007214 | 0 | None | In(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-8 | 0.018 | 0.013 | 0.009 | Yes | 19 | 0.01724 | 0.0103 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | WGWC-9 | 0.03842 | 0.03279 | 0.009 | Yes | 19 | 0.03561 | 0.004809 | 0 | None | No | 0.01 | Param. |

State Confidence Intervals - All Results

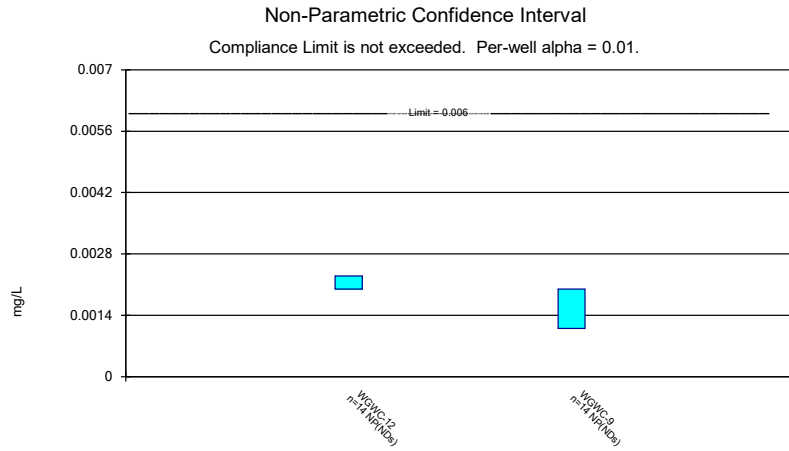
Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:14 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|----------|------------|------------|------------|------|----|-----------|------------|-------|--------------|-----------|-------|----------------|
| Antimony (mg/L) | WGWC-12 | 0.0023 | 0.002 | 0.006 | No | 14 | 0.002021 | 0.00008018 | 92.86 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | WGWC-9 | 0.002 | 0.0011 | 0.006 | No | 14 | 0.001709 | 0.0005998 | 78.57 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-10 | 0.001 | 0.0005 | 0.01 | No | 19 | 0.0008647 | 0.0002579 | 73.68 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-11 | 0.001 | 0.00054 | 0.01 | No | 19 | 0.0009221 | 0.0001852 | 84.21 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-12 | 0.001 | 0.00052 | 0.01 | No | 19 | 0.0009474 | 0.0001578 | 89.47 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-13 | 0.001 | 0.00039 | 0.01 | No | 19 | 0.0007705 | 0.0003275 | 42.11 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | WGWC-14A | 0.0017 | 0.00095 | 0.01 | No | 19 | 0.001255 | 0.0005979 | 63.16 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-15 | 0.002218 | 0.001316 | 0.01 | No | 19 | 0.001767 | 0.0007698 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | WGWC-16 | 0.0014 | 0.0009 | 0.01 | No | 19 | 0.001166 | 0.000338 | 47.37 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | WGWC-17 | 0.001 | 0.00058 | 0.01 | No | 19 | 0.0008316 | 0.0002108 | 47.37 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | WGWC-8 | 0.0011 | 0.00071 | 0.01 | No | 19 | 0.0009447 | 0.000273 | 52.63 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | WGWC-9 | 0.0017 | 0.00078 | 0.01 | No | 19 | 0.0009974 | 0.0002133 | 84.21 | None | No | 0.01 | NP (NDs) |
| Barium (mg/L) | WGWC-10 | 0.041 | 0.035 | 2 | No | 19 | 0.0389 | 0.006385 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-11 | 0.04001 | 0.03165 | 2 | No | 19 | 0.03632 | 0.008138 | 0 | None | ln(x) | 0.01 | Param. |
| Barium (mg/L) | WGWC-12 | 0.0214 | 0.015 | 2 | No | 19 | 0.01718 | 0.004267 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-13 | 0.05663 | 0.046 | 2 | No | 19 | 0.05132 | 0.009074 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | WGWC-14A | 0.04655 | 0.03101 | 2 | No | 19 | 0.03947 | 0.01419 | 0 | None | sqrt(x) | 0.01 | Param. |
| Barium (mg/L) | WGWC-15 | 0.02388 | 0.01998 | 2 | No | 19 | 0.02193 | 0.003332 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | WGWC-16 | 0.068 | 0.034 | 2 | No | 19 | 0.04971 | 0.01622 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-17 | 0.019 | 0.011 | 2 | No | 19 | 0.01515 | 0.004036 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-19 | 0.005 | 0.0012 | 2 | No | 19 | 0.002804 | 0.001937 | 31.58 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-8 | 0.005 | 0.001 | 2 | No | 19 | 0.002962 | 0.001771 | 36.84 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | WGWC-9 | 0.005 | 0.00076 | 2 | No | 19 | 0.002486 | 0.001832 | 31.58 | None | No | 0.01 | NP (normality) |
| Beryllium (mg/L) | WGWC-14A | 0.0025 | 0.00025 | 0.004 | No | 19 | 0.001788 | 0.001076 | 68.42 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | WGWC-16 | 0.0025 | 0.00022 | 0.004 | No | 19 | 0.00238 | 0.0005231 | 94.74 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | WGWC-8 | 0.002122 | 0.001547 | 0.004 | No | 19 | 0.001834 | 0.0004906 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | WGWC-9 | 0.0025 | 0.00036 | 0.004 | No | 19 | 0.001387 | 0.001086 | 47.37 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | WGWC-10 | 0.002055 | 0.001385 | 0.1 | No | 19 | 0.001989 | 0.0005705 | 15.79 | Kaplan-Meier | No | 0.01 | Param. |
| Chromium (mg/L) | WGWC-11 | 0.0021 | 0.0017 | 0.1 | No | 19 | 0.0019 | 0.0002749 | 78.95 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-13 | 0.002 | 0.0019 | 0.1 | No | 19 | 0.001984 | 0.00005015 | 89.47 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-14A | 0.002 | 0.0017 | 0.1 | No | 19 | 0.001984 | 0.00006882 | 94.74 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-15 | 0.002 | 0.0015 | 0.1 | No | 19 | 0.001974 | 0.0001147 | 94.74 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | WGWC-9 | 0.0025 | 0.002 | 0.1 | No | 19 | 0.002026 | 0.0001147 | 94.74 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | WGWC-10 | 0.001624 | 0.0007953 | 0.013 | No | 19 | 0.001274 | 0.0008063 | 5.263 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | WGWC-11 | 0.0025 | 0.00064 | 0.013 | No | 19 | 0.001612 | 0.0009174 | 36.84 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-12 | 0.001165 | 0.0004782 | 0.013 | No | 19 | 0.0008879 | 0.0006689 | 5.263 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | WGWC-13 | 0.0025 | 0.00054 | 0.013 | No | 19 | 0.001957 | 0.0009403 | 73.68 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | WGWC-14A | 0.013 | 0.0041 | 0.013 | No | 19 | 0.008116 | 0.004234 | 0 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-15 | 0.0025 | 0.00015 | 0.013 | No | 19 | 0.002376 | 0.0005391 | 94.74 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | WGWC-16 | 0.014 | 0.00026 | 0.013 | No | 19 | 0.006965 | 0.006383 | 5.263 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-17 | 0.001683 | 0.0007808 | 0.013 | No | 19 | 0.001232 | 0.0007708 | 5.263 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | WGWC-19 | 0.0025 | 0.00024 | 0.013 | No | 19 | 0.001357 | 0.001119 | 47.37 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-8 | 0.0028 | 0.00066 | 0.013 | No | 19 | 0.001889 | 0.0009969 | 47.37 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | WGWC-9 | 0.0025 | 0.00073 | 0.013 | No | 19 | 0.002407 | 0.0004061 | 94.74 | None | No | 0.01 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | WGWC-10 | 0.4447 | 0.1625 | 10.4 | No | 19 | 0.3036 | 0.241 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-11 | 0.6324 | 0.1607 | 10.4 | No | 19 | 0.3966 | 0.4028 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-12 | 0.6056 | 0.1662 | 10.4 | No | 19 | 0.3859 | 0.3752 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-13 | 0.776 | 0.4499 | 10.4 | No | 19 | 0.6129 | 0.2785 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-14A | 0.8302 | 0.5225 | 10.4 | No | 19 | 0.6987 | 0.3093 | 0 | None | x^(1/3) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-15 | 0.6444 | 0.2927 | 10.4 | No | 19 | 0.4988 | 0.3527 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-16 | 1.819 | 0.7854 | 10.4 | No | 19 | 1.396 | 0.9186 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-17 | 0.5319 | 0.09894 | 10.4 | No | 19 | 0.3154 | 0.3697 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-19 | 0.511 | 0.126 | 10.4 | No | 19 | 0.3426 | 0.3052 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | WGWC-8 | 1.951 | 1.293 | 10.4 | No | 19 | 1.622 | 0.5619 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | WGWC-9 | 0.4151 | 0.1467 | 10.4 | No | 19 | 0.2809 | 0.2292 | 0 | None | No | 0.01 | Param. |

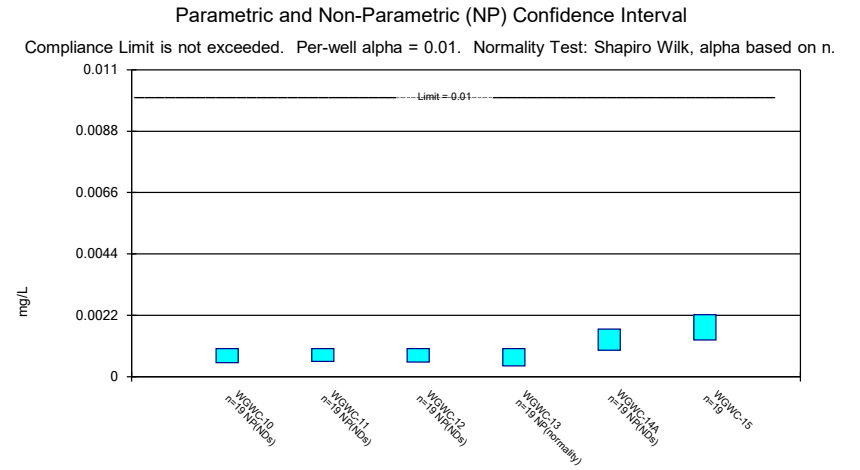
State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:14 PM

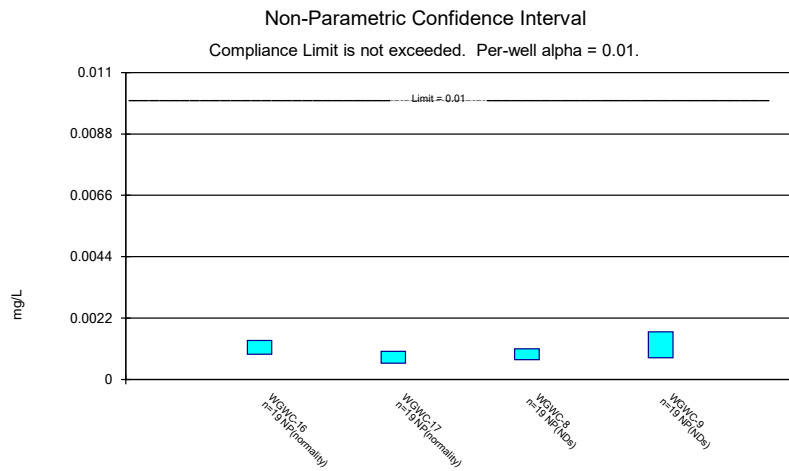
| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|----------------|----------------|----------------|--------------|------------|-----------|----------------|-----------------|----------|--------------|--------------|-------------|-----------------------|
| Fluoride (mg/L) | WGWC-10 | 0.176 | 0.1288 | 4 | No | 20 | 0.1524 | 0.04163 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-11 | 0.1 | 0.045 | 4 | No | 20 | 0.08335 | 0.03667 | 60 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | WGWC-12 | 0.09725 | 0.07366 | 4 | No | 20 | 0.09225 | 0.0206 | 20 | Kaplan-Meier | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-13 | 0.2939 | 0.2135 | 4 | No | 20 | 0.2537 | 0.07082 | 5 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-14A | 0.1 | 0.04 | 4 | No | 20 | 0.0812 | 0.02968 | 70 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | WGWC-15 | 0.871 | 0.7709 | 4 | No | 20 | 0.821 | 0.08822 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-16 | 0.1736 | 0.07849 | 4 | No | 20 | 0.1598 | 0.1859 | 10 | None | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-17 | 0.1379 | 0.08713 | 4 | No | 20 | 0.1125 | 0.04468 | 5 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-19 | 0.375 | 0.322 | 4 | No | 20 | 0.3485 | 0.0466 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-8 | 0.3489 | 0.1996 | 4 | No | 20 | 0.2743 | 0.1315 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | WGWC-9 | 1.521 | 1.198 | 4 | No | 20 | 1.36 | 0.2849 | 0 | None | No | 0.01 | Param. |
| Lead (mg/L) | WGWC-10 | 0.001 | 0.00021 | 0.001 | No | 17 | 0.0006853 | 0.0003923 | 58.82 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-11 | 0.001 | 0.00058 | 0.001 | No | 17 | 0.0009018 | 0.0002227 | 82.35 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-13 | 0.001 | 0.00047 | 0.001 | No | 17 | 0.0007529 | 0.0002551 | 47.06 | None | No | 0.01 | NP (normality) |
| Lead (mg/L) | WGWC-14A | 0.001 | 0.00031 | 0.001 | No | 17 | 0.0008112 | 0.0003525 | 76.47 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-15 | 0.001 | 0.0003 | 0.001 | No | 17 | 0.0009588 | 0.0001698 | 94.12 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-16 | 0.001 | 0.00014 | 0.001 | No | 17 | 0.0008982 | 0.0002873 | 88.24 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-17 | 0.001 | 0.00033 | 0.001 | No | 17 | 0.0009135 | 0.0002452 | 88.24 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-8 | 0.001 | 0.00017 | 0.001 | No | 17 | 0.0007994 | 0.0003729 | 76.47 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | WGWC-9 | 0.001 | 0.00014 | 0.001 | No | 17 | 0.0009494 | 0.0002086 | 94.12 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-10 | 0.01493 | 0.007503 | 0.009 | No | 19 | 0.01177 | 0.007138 | 0 | None | sqrt(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-11 | 0.005 | 0.0018 | 0.009 | No | 19 | 0.004437 | 0.001341 | 84.21 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-12 | 0.007846 | 0.006125 | 0.009 | No | 19 | 0.006821 | 0.001782 | 5.263 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | WGWC-13 | 0.005 | 0.0037 | 0.009 | No | 19 | 0.004421 | 0.001082 | 73.68 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-14A | 0.005 | 0.0025 | 0.009 | No | 19 | 0.004111 | 0.001325 | 63.16 | None | No | 0.01 | NP (NDs) |
| Lithium (mg/L) | WGWC-15 | 0.007289 | 0.005532 | 0.009 | No | 19 | 0.006411 | 0.001501 | 10.53 | None | No | 0.01 | Param. |
| Lithium (mg/L) | WGWC-16 | 0.01057 | 0.006798 | 0.009 | No | 19 | 0.008684 | 0.003222 | 5.263 | None | No | 0.01 | Param. |
| Lithium (mg/L) | WGWC-17 | 0.005639 | 0.004704 | 0.009 | No | 19 | 0.005211 | 0.0008379 | 5.263 | None | ln(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-19 | 0.05511 | 0.04727 | 0.009 | Yes | 19 | 0.05147 | 0.007214 | 0 | None | ln(x) | 0.01 | Param. |
| Lithium (mg/L) | WGWC-8 | 0.018 | 0.013 | 0.009 | Yes | 19 | 0.01724 | 0.0103 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | WGWC-9 | 0.03842 | 0.03279 | 0.009 | Yes | 19 | 0.03561 | 0.004809 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | WGWC-10 | 0.015 | 0.00093 | 0.015 | No | 19 | 0.01352 | 0.004439 | 89.47 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-11 | 0.015 | 0.0017 | 0.015 | No | 19 | 0.01357 | 0.004289 | 89.47 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-12 | 0.015 | 0.0009 | 0.015 | No | 19 | 0.01071 | 0.006545 | 68.42 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-13 | 0.00491 | 0.0016 | 0.015 | No | 19 | 0.004216 | 0.004868 | 15.79 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | WGWC-14A | 0.015 | 0.001 | 0.015 | No | 19 | 0.01426 | 0.003212 | 94.74 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | WGWC-15 | 0.006785 | 0.003297 | 0.015 | No | 19 | 0.005316 | 0.003485 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | WGWC-17 | 0.005469 | 0.002641 | 0.015 | No | 19 | 0.004279 | 0.002553 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | WGWC-19 | 0.015 | 0.0012 | 0.015 | No | 19 | 0.006347 | 0.006791 | 36.84 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | WGWC-9 | 0.0071 | 0.003 | 0.015 | No | 19 | 0.005396 | 0.003456 | 0 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | WGWC-10 | 0.005 | 0.00031 | 0.05 | No | 19 | 0.004753 | 0.001076 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-11 | 0.005 | 0.00049 | 0.05 | No | 19 | 0.004763 | 0.001035 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-12 | 0.005 | 0.0021 | 0.05 | No | 19 | 0.004847 | 0.0006653 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-14A | 0.005 | 0.0003 | 0.05 | No | 19 | 0.004753 | 0.001078 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-15 | 0.005 | 0.0005 | 0.05 | No | 19 | 0.004763 | 0.001032 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-16 | 0.0111 | 0.005817 | 0.05 | No | 19 | 0.008461 | 0.004514 | 0 | None | No | 0.01 | Param. |
| Selenium (mg/L) | WGWC-19 | 0.005 | 0.00036 | 0.05 | No | 19 | 0.004756 | 0.001064 | 94.74 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | WGWC-8 | 0.003858 | 0.003102 | 0.05 | No | 19 | 0.003504 | 0.0006592 | 0 | None | x^(1/3) | 0.01 | Param. |
| Selenium (mg/L) | WGWC-9 | 0.002823 | 0.002196 | 0.05 | No | 19 | 0.002509 | 0.0005347 | 0 | None | No | 0.01 | Param. |
| Thallium (mg/L) | WGWC-10 | 0.001 | 0.000085 | 0.002 | No | 19 | 0.0009518 | 0.0002099 | 94.74 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | WGWC-11 | 0.001 | 0.00016 | 0.002 | No | 19 | 0.0009558 | 0.0001927 | 94.74 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | WGWC-14A | 0.001 | 0.00013 | 0.002 | No | 19 | 0.0005142 | 0.0004267 | 42.11 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | WGWC-16 | 0.001 | 0.00015 | 0.002 | No | 19 | 0.0004768 | 0.0004122 | 36.84 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | WGWC-19 | 0.001 | 0.00018 | 0.002 | No | 19 | 0.0009568 | 0.0001881 | 94.74 | None | No | 0.01 | NP (NDs) |



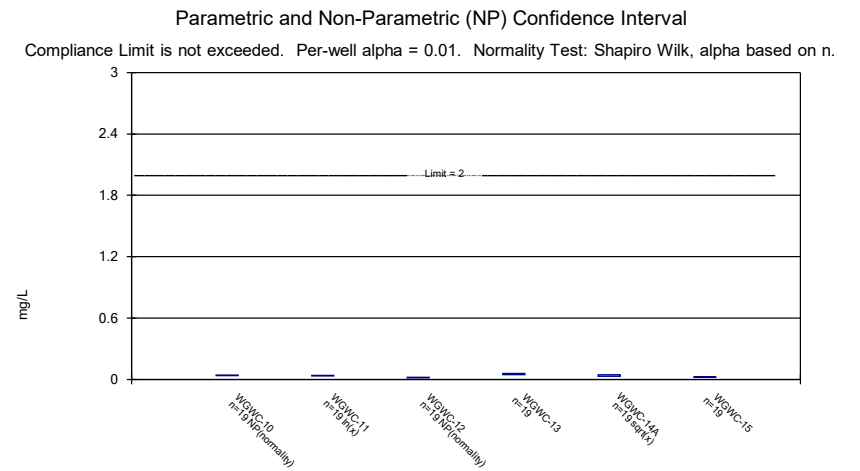
Constituent: Antimony Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Arsenic Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



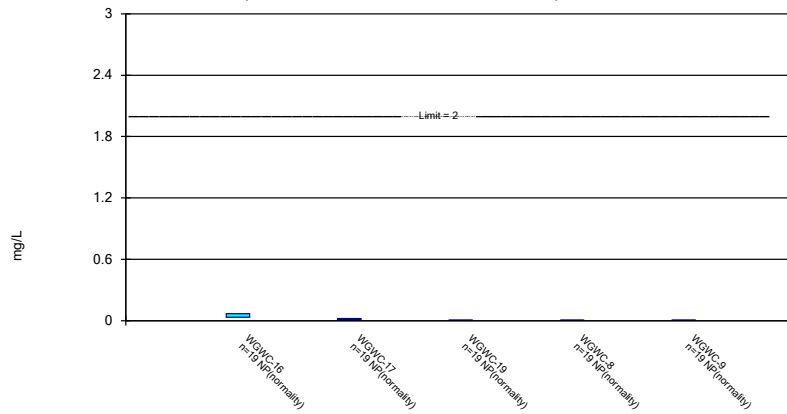
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



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Non-Parametric Confidence Interval

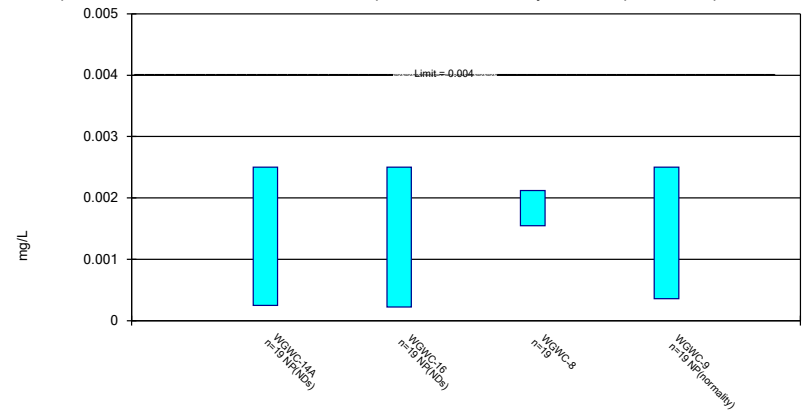
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Parametric and Non-Parametric (NP) Confidence Interval

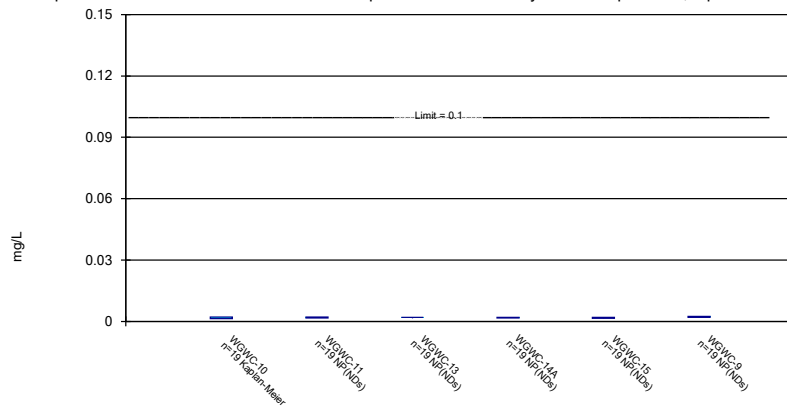
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

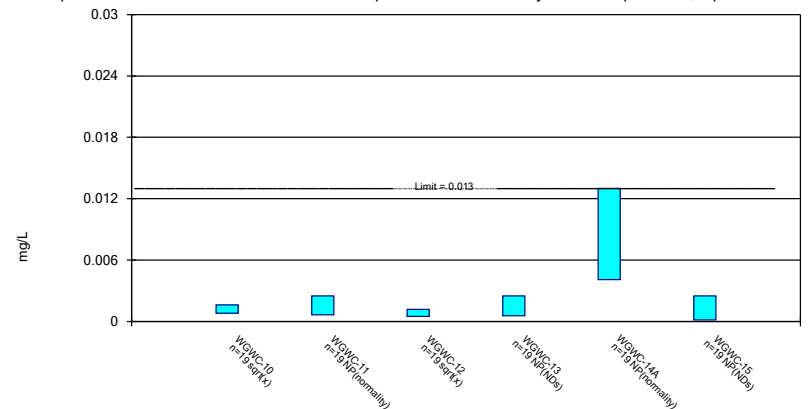
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

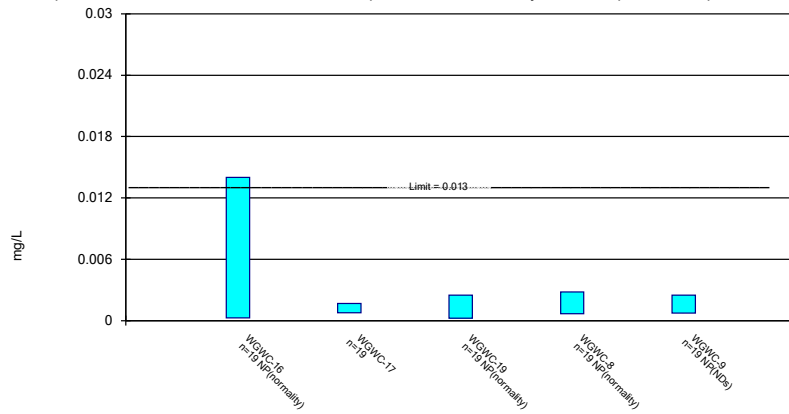
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Constituent: Cobalt Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

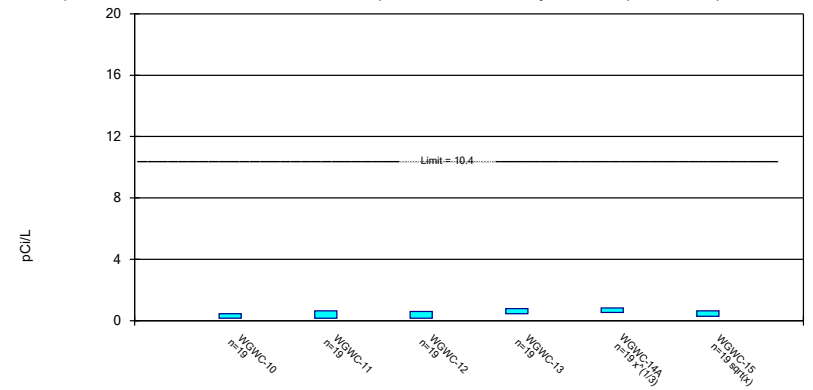
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Constituent: Cobalt Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

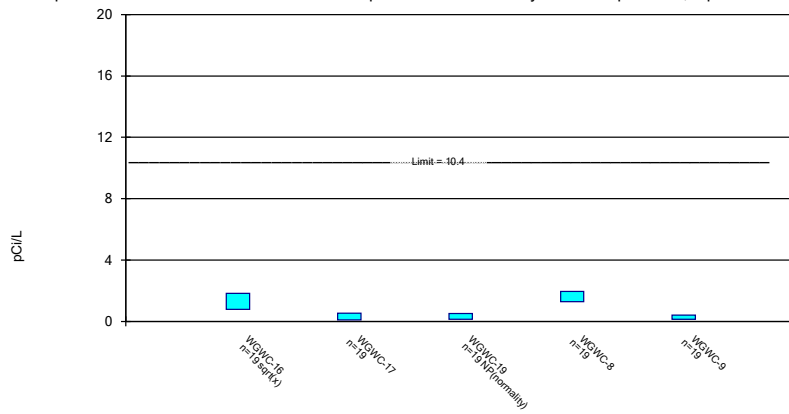
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Constituent: Combined Radium 226 + 228 Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

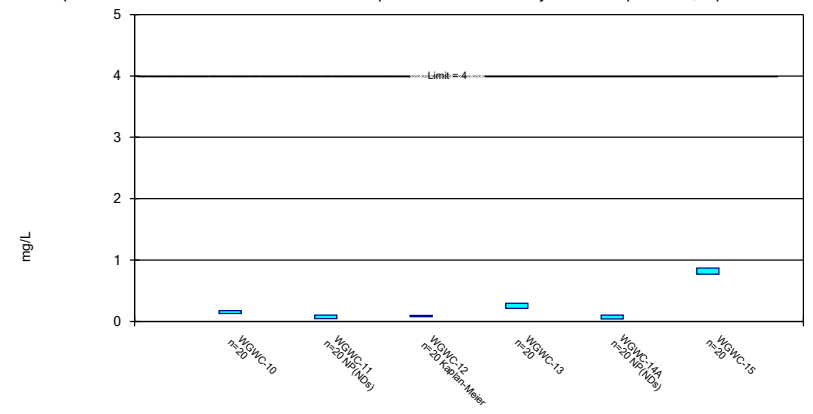
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Constituent: Combined Radium 226 + 228 Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

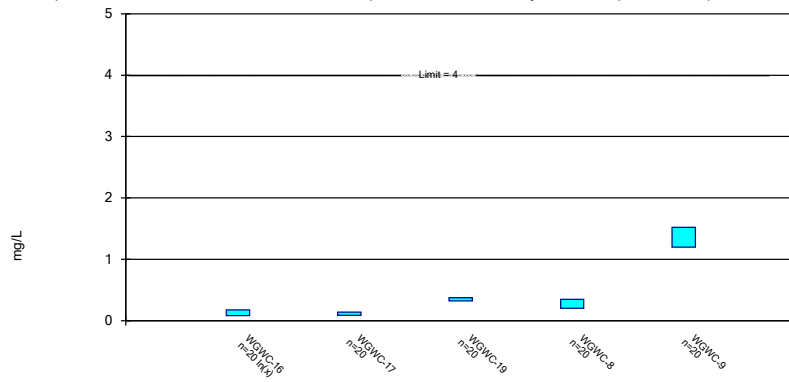
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

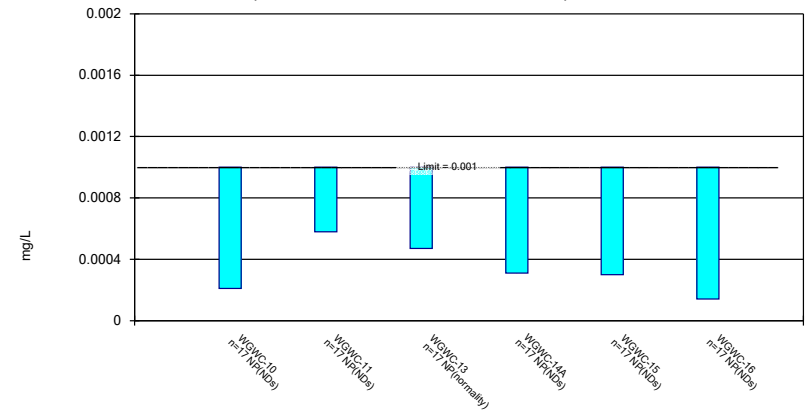
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Constituent: Fluoride Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

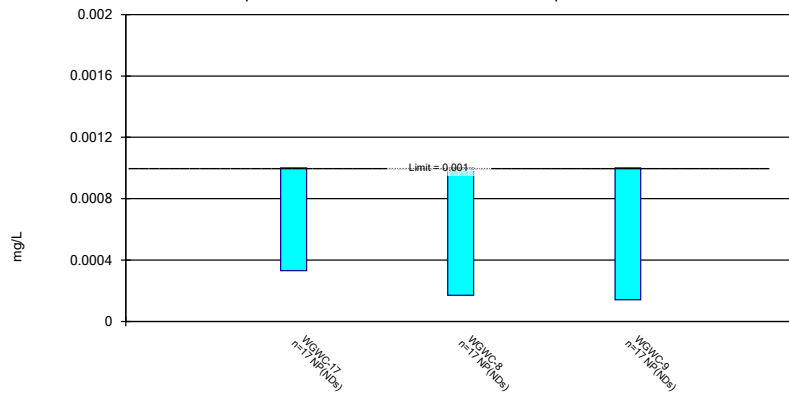
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Constituent: Lead Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

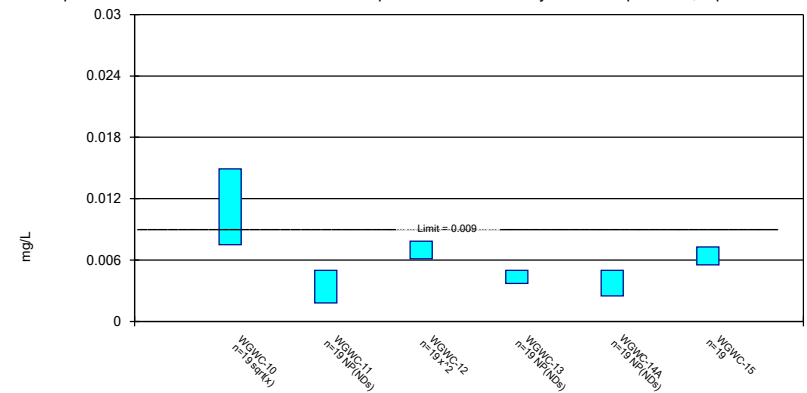
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Constituent: Lead Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

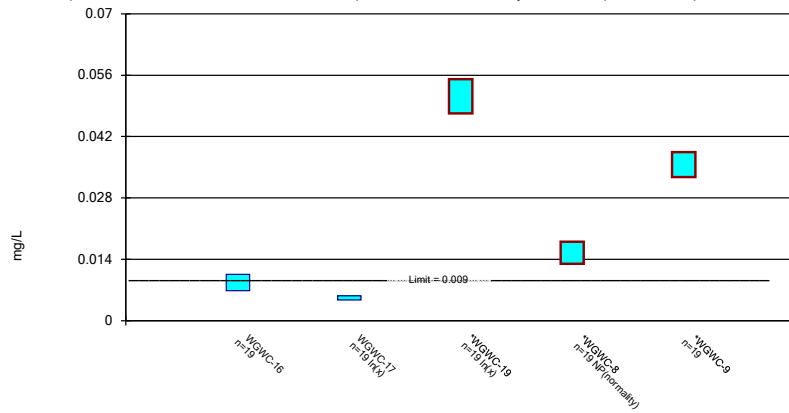
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Parametric and Non-Parametric (NP) Confidence Interval

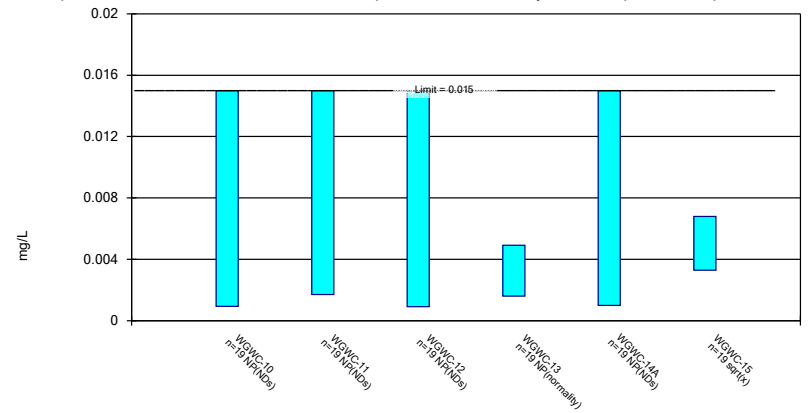
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

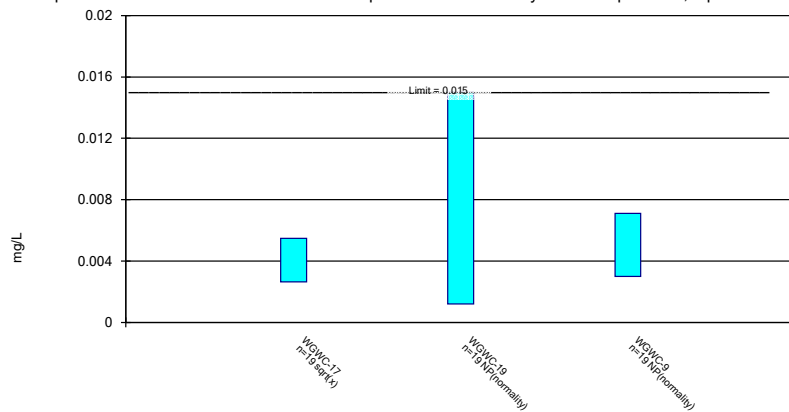
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Parametric and Non-Parametric (NP) Confidence Interval

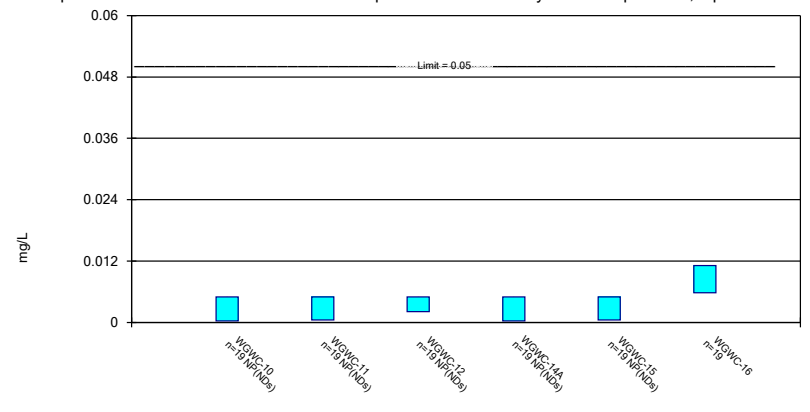
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

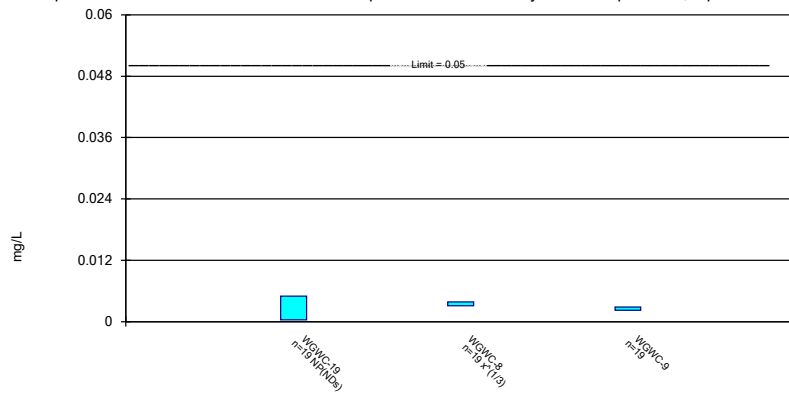
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

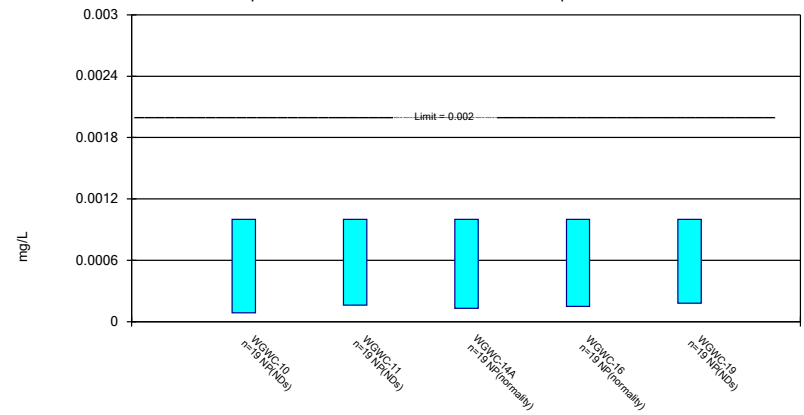
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

APPENDIX E

February 2021 Alternate Source Demonstration (ASD) Addendum Plant Wansley Ash Pond 1 (AP-1) Georgia Power Company



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

**ALTERNATE SOURCE
DEMONSTRATION ADDENDUM—
LITHIUM
PLANT WANSLEY ASH POND 1 (AP-1)**

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW7327

February 2021



ALTERNATE SOURCE DEMONSTRATION ADDENDUM – LITHIUM

Plant Wansley
Ash Pond 1 (AP-1)

February 26, 2021

A handwritten signature in black ink that reads "Herwig Goldemund".

Herwig Goldemund, Ph.D.
Senior Scientist

A handwritten signature in blue ink that reads "Adria Reimer".

Adria Reimer, P.G.
Project Manager

Certification Statement

**Alternate Source Demonstration Addendum – Lithium
Plant Wansley
Ash Pond 1 (AP-1)
February 26, 2021**

I hereby certify that the facts used to prepare this Alternate Source Demonstration Addendum for Georgia Power Company – Plant Wansley Ash Pond 1 are accurate pursuant to the requirements stipulated in 40 CFR 257.95(g)(3)(ii) and Georgia regulations stipulated in Rule 391-3-4-.10(6) of the Georgia Administrative Code, which incorporates 40 CFR 257.95(g)(3)(ii) by reference.



Adria Lee Reimer

Seal and Signature

02/26/2021

Date

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LIST OF ACRONYMS

| | |
|--------|---|
| AP | Ash Pond |
| ASD | Alternate Source Demonstration |
| CCR | Coal Combustion Residual |
| CFR | Code of Federal Regulations |
| ft bgs | feet below ground surface |
| NAVD88 | North American Vertical Datum of 1988 |
| GA EPD | Environmental Protection Division |
| GWPS | Groundwater Protection Standard |
| K_d | distribution coefficient |
| MCL | Maximum Contaminant Level |
| mg/kg | milligram per kilogram |
| mg/L | milligram per liter |
| PWR | partially weathered rock |
| SEP | sequential extraction procedure |
| s.u. | standard units |
| SSL | statistically significant level |
| TDS | total dissolved solids |
| USEPA | United States Environmental Protection Agency |

1. INTRODUCTION

1.1 Background and Purpose

This document presents an addendum to the alternate source demonstration (ASD) provided in the *2018 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company – Plant Wansley – Ash Pond 1 (AP-1)* (ACC, 2019) for the statistically significant levels (SSLs) of lithium detected in compliance groundwater monitoring wells located at Georgia Power Company’s (Georgia Power’s) Plant Wansley (the Site) Ash Pond 1 (AP-1). Based on lithium SSLs identified in several wells during the 2018 reporting year, the 2018 ASD presented evidence that the source of lithium in groundwater was naturally derived from subsurface rock formations and did not originate from AP-1. Since submittal of the 2018 ASD, supplemental data have been collected which provide additional evidence of the natural occurrence of lithium in rock units at AP-1. The supplemental data presented in this ASD Addendum support the conclusions provided in the 2018 ASD.

AP-1 is currently regulated by the Georgia Environmental Protection Division (GA EPD) in accordance with Georgia Rules for Solid Waste Management 391-3-4-.10. The unit is also subject to the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257 Subpart D. The 2018 ASD and this ASD Addendum have been prepared pursuant to Rule 391-3-4-.14(30)(e) of the Georgia Administrative Code, which states that “the owner or operator may demonstrate that a source other than a MSWLF (municipal solid waste landfill) unit caused the contamination or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.” This language is consistent with the requirements of the Federal CCR Rule stipulated in 40 CFR 257.95(g)(3), which has been incorporated by reference into Rule 391-3-4-.10(23)(c) of the Georgia Administrative Code.

1.2 Basis of the Evaluation of Statistically Significant Level Exceedances

In accordance with § 257.95(h)(2)(iii), the federal groundwater protection standard (GWPS) for lithium at AP-1 is 0.040 milligrams per liter (mg/L). In accordance with the GA EPD CCR Rule, the state GWPS for lithium is the background concentration, which has been established at 0.009 mg/L (Geosyntec, 2021). Statistical analysis of Appendix IV data identified lithium concentrations at SSLs above established state and/or federal GWPS in certain compliance wells at AP-1, as documented in reports previously submitted to GA EPD and summarized below.

| Assessment Event | GWPS Exceedance for Lithium ⁽¹⁾ | Compliance Well | | | |
|-------------------------------|--|-----------------|--------|---------|---------|
| | | WGWC-8 | WGWC-9 | WGWC-10 | WGWC-19 |
| June 2018 ⁽²⁾ | Federal | | | | X |
| | State | X | X | X | X |
| September 2018 ⁽²⁾ | Federal | | | | X |
| | State | X | X | X | X |
| April 2019 ⁽³⁾ | Federal | | | | X |
| | State | X | X | X | X |
| September 2019 ⁽³⁾ | Federal | | | | X |
| | State | X | X | | X |
| March 2020 ⁽⁴⁾ | Federal | | | | X |
| | State | X | X | | X |
| September 2020 ⁽⁴⁾ | Federal | | | | X |
| | State | X | X | | X |

Notes:

(1) A state statistically significant level (SSL) related constituent is determined by comparing the confidence intervals developed to either the constituent's maximum contaminant Level (MCL), if available, or the calculated background interwell prediction limit. A federal SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, the USEPA RSL, if no MCL is available, or the calculated background interwell prediction limit if background is higher than either the MCL or RSL.

(2) 2018 Annual Groundwater Monitoring and Corrective Action Report (ACC, 2019)

(3) 2019 Annual Groundwater Monitoring and Corrective Action Report (ACC, 2020)

(4) 2020 Annual Groundwater Monitoring and Corrective Action Report (Geosyntec, 2021)

Decreasing lithium concentrations detected at WGWC-10 reduced the lower confidence interval to below the state GWPS of 0.009 mg/L following the second semiannual groundwater assessment event in September 2019, thereby no longer identifying an SSL of lithium at this compliance well.

1.3 Summary of 2018 ASD

As detailed in the 2018 ASD, the lithium SSLs reported for wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19, located southeast and south of AP-1 are not associated with a release from the ash pond. The source of lithium in the groundwater at these locations is naturally derived from measurable lithium present in subsurface rock units southeast and south of AP-1 where wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 are

installed (**Figure 1**¹). Various lines of evidence supporting this conclusion were presented in the 2018 ASD. Key points are summarized below.

- There are several lithologic units present at AP-1 (**Figure 1**), with rock units north and northwest of AP-1 differing from those southeast and south of the ash pond. Correspondingly, the lithium groundwater concentrations originating from natural geologic sources are expected to vary spatially across the Site with changing geologic units.
- Laboratory analysis of rock samples collected from locations southeast and south of AP-1 indicated naturally occurring lithium concentrations in the quartzite bedrock unit to be 30 milligrams per kilogram (mg/kg) and lithium concentrations as high as 116 mg/kg in the schist-amphibolite bedrock unit.
- Boron is an Appendix III constituent commonly used as a tracer to indicate CCR impacts to groundwater downgradient of a CCR unit. Groundwater data for sampling events conducted in 2016 and 2017 indicated no correlation between boron and lithium groundwater concentrations for select compliance wells.
- The lack of boron detections and low concentrations of other CCR indicator parameters (Appendix III constituents) at WGWC-19, the well with the highest lithium detections in groundwater, further indicated that lithium in groundwater did not originate from a release of AP-1. In fact, the highest concentrations of lithium in rock core samples collected in support of the 2018 ASD were reported in the schist samples collected at WGWC-19.

1.4 Summary of ASD Addendum

This ASD Addendum provides supplemental groundwater and rock sample laboratory analytical data collected since submittal of the 2018 ASD. The data support the conclusions of the 2018 ASD, specifically:

- Lithium concentrations detected at WGWC-10 have shown a decreasing trend since 2016, resulting in a reduction of the statistically derived lower confidence interval to below the state GWPS of 0.009 mg/L, thereby no longer identifying an SSL for lithium at this compliance well.

¹ Geologic map revised from those presented in the *Geologic and Hydrogeologic Report* (Golder, 2018), the 2018 ASD, and the *Hydrogeologic Assessment Report Revision 01 [HAR Rev. 01]* (Geosyntec, 2019), to reflect geologic data collected through December 2020, and as noted in Section 2.2.

- This ASD Addendum includes an evaluation of the correlation between lithium and Appendix III constituents using groundwater data from compliance monitoring well samples collected between 2016 and 2020. Results indicate that there is no correlation between lithium and boron at WGWC-9, and that there is a statistically significant negative correlation between lithium and boron at WGWC-8, indicating that these constituents are likely from different sources. Non-detect to intermittent low detections of boron consistent with background conditions at wells WGWC-10 and WGWC-19 further support an alternate source for lithium in groundwater.
- Laboratory analyses of rock core samples collected from locations with lithium SSLs and from locations in proximity to locations with lithium SSLs indicate substantial total concentrations of naturally occurring lithium in the rock, with lithium concentrations ranging from 17 mg/kg (core sample of quartzite bedrock unit at location WGWC-8 and core sample of Long Island Gneiss bedrock unit at PB-3) to 130 mg/kg (core sample of schist-amphibolite bedrock unit at PB-7, near WGWC-10).
- Laboratory analyses using sequential extraction procedures (SEPs) for rock core samples collected from boreholes corresponding to or in vicinity of wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 indicate lithium in rock cores is mostly associated with recalcitrant fractions that will liberate lithium through mineral weathering. Saprolite and partially weathered rock (PWR) derived through the weathering of the parent bedrock contains similar minerals and/or constituents as the parent bedrock. During the weathering process and as groundwater flows through saprolite, PWR, and bedrock fractures, the minerals/constituents can be liberated and partially dissolve into groundwater.
- Using a literature-derived distribution coefficient (K_d) of 300 liters per kilogram (L/kg) to calculate predicted groundwater concentrations of lithium based on lithium concentrations in rock indicates that observed groundwater concentrations, which are generally lower than predicted concentrations, can be explained by lithium originating from weathering of the natural formation.

1.5 Site Setting

AP-1 is located in the Piedmont Physiographic Province of western Georgia, which is characterized by gently rolling hills and narrow valleys with locally pronounced linear ridges, trending northeast-southwest, and separated by valleys. The area southeast and south of AP-1 is underlain primarily by three lithologic units; (i) residual soils and

saprolite, (ii) partially weathered rock (PWR), and (iii) metamorphic crystalline bedrock. Geologic investigations and mapping performed by Golder Associates (Golder) in 2015 indicates that bedrock units present southeast and south of AP-1 consist primarily of schist, amphibolite, gneiss, and quartzite. Characteristics of the various bedrock units were described by Golder in the *Geologic and Hydrogeologic Report* (Golder, 2018). The bedrock units at the Site steeply dip to the east-southeast and are marked by three mapped faults (Golder, 2018).

A *Hydrogeologic Assessment Report Revision 01* (HAR Rev. 01) prepared for AP-1 by Geosyntec (2019) provided an updated geologic map based on data collected during geologic investigations completed between 2016 and 2017. Additional geologic data collected by Geosyntec during borehole drilling and piezometer installation activities completed between September and November 2020 (Geosyntec, 2021) have been used to refine the site-specific geologic map. The locations of monitoring wells and piezometers relative to the geologic units underlying AP-1 based on data collected through November 2020 are shown on **Figure 1**.

While the aquifer characteristics of each lithologic unit may vary, the groundwater is interconnected between these units, and they effectively act as one, unconfined aquifer. According to previous investigations, the potentiometric surface is a subdued reflection of the topography. The top of rock surface also generally follows topography and likely controls groundwater flow direction in the uppermost aquifer, which occurs within the saprolite and PWR and is hydraulically connected to the bedrock via fractures and deeply weathered areas of the rock. Recharge is by precipitation infiltrating through the saprolite to the bedrock.

Additional information regarding the geologic and hydrogeologic setting of AP-1 is available in reports previously submitted to GA EPD, including semiannual groundwater monitoring and corrective action reports for AP-1 submitted between 2017 and 2021, and the *HAR Rev. 01* (Geosyntec, 2019).

2. ALTERNATE SOURCE DEMONSTRATION

Based on review of Site information, the SSLs for lithium at monitoring wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 are not related to a release from AP-1 but are instead caused by naturally occurring lithium present in rock units at AP-1. The following sections present information supporting this conclusion.

2.1 Lack of Correlation Between Lithium and Indicator Parameters

The 2018 ASD included an evaluation of the correlation between boron and other Appendix III constituents for groundwater samples collected between 2016 and 2017 to assess the potential for AP-1 to be the source of lithium in groundwater at AP-1. The assessment was completed by analysis of Pearson correlation coefficients. Highly positive correlations (i.e., correlation coefficient r near 1.0) may indicate that two parameter sets are related or from a common influence, while non-significant low correlations or negative r values indicate that the occurrence of two parameters are unrelated or potentially not originating from the same source. Results indicated that while boron had a positive correlation with some other Appendix III constituents at individual wells, lithium either did not significantly correlate with boron (WGWC-9) or showed a negative correlation between these two constituents (WGWC-8), suggesting potentially different sources for boron and lithium in groundwater. Further, due to insufficient detections of boron at WGWC-10 (a location which no longer constitutes an SSL for lithium) and at WGWC-19 (the location with the highest lithium concentrations in groundwater), no correlation analyses could be completed for boron.

This ASD Addendum updated the correlation evaluation to incorporate additional groundwater data collected after submittal of the 2018 ASD. As shown in **Table 1**, potential correlations between boron and other Appendix III constituents, and between lithium and Appendix III constituents, were evaluated for WGWC-8, WGWC-9, WGWC-10, and WGWC-19. To summarize data presented in **Table 1**:

- WGWC-8: Boron shows a statistically significant negative correlation with lithium and positive correlations with calcium and TDS. Lithium does not show a statistically significant correlation with Appendix III constituents with the exception of a positive correlation with pH. This suggests a common source of boron, calcium, and TDS, but a different source for lithium and pH in this well. The explanation for the positive correlation between pH and lithium in this well is unclear, as lithium shows weak sorption that slightly increases with increasing pH (Robinson et al., 2018), which should result in less lithium in groundwater as pH increases, not more as the positive correlation would suggest.

- WGWC-9: Boron does not statistically correlate with lithium but does show statistically significant positive correlations with calcium, chloride, sulfate, and TDS and a negative correlation with fluoride. Lithium does not correlate at a statistically significant level with Appendix III constituents. Similar to WGWC-8, this suggests a common source of boron, calcium, chloride, sulfate and TDS, but different sources for lithium and fluoride in this well.
- WGWC-10: Due to insufficient detections of boron, no correlation analyses could be completed for this constituent to other Appendix III constituents or lithium. Lithium shows statistically significant positive correlations with fluoride, sulfate, and pH. This suggests a common source for these constituents in this well. The higher pH values (i.e., > 8.5 s.u.) measured in this well during the early phase of the monitoring program in 2016 might indicate lingering well installation effects that appear to correlate strongly with lithium concentrations. Given that boron concentrations were mostly non-detect and/or consistent with background conditions, concentrations of fluoride and sulfate were very low (and much lower compared to other wells), pH has shown a decreasing trend since 2016, and lithium has shown a decreasing trend since 2016 such that this constituent is no longer identified as an SSL at this well, this common source of constituents in this well is likely derived from weathering/dissolution of the natural formation and well installation effects rather than AP-1.
- WGWC-19: Similar to WGWC-10, due to insufficient detections of boron, no correlation analyses could be completed for this constituent to other Appendix III constituents or lithium. Lithium does not show a statistically significant correlation with Appendix III constituents. The mostly non-detect concentrations of boron and lack of statistically significant correlations between lithium and Appendix III constituents suggest that AP-1 is not the source of lithium at this location.

If AP-1 were the source of lithium at these locations, particularly at WGWC-19 (the location with the highest lithium concentrations in groundwater), elevated detections of boron in groundwater would be expected, and statistically significant positive correlations should exist between lithium and boron. While pH was included in this correlation analysis, pH is not as useful for assessing lithium mobilization or immobilization as it is for other trace elements as lithium does not respond to changes in pH to the extent that many other trace elements do. Furthermore, with the exception of well WGWC-8, there are no statistically significant increases of Appendix III constituents in these wells. The

statistically significant negative correlation between boron and lithium in well WGWC-8 suggests that lithium is not derived from AP-1.

2.2 Laboratory Analytical Results of Rock Samples

As part of the 2018 ASD demonstration, twelve rock core samples from drilling investigations previously completed at AP-1 were selected from a range of lithologies for laboratory analyses of total metals. As summarized in Table 2 of the 2018 ASD, lithium concentrations were higher in samples of the schist-amphibolite unit from locations PB-8 and PB-9, and the button schist unit² from WGWC-19 at AP-1 compared to other site lithologies.

Additional rock cores were retrieved from Georgia Power's storage facility in 2020 and submitted for laboratory analyses of total lithium and, at the request of GA EPD, cores were also subjected to a SEP for lithium. Rock core samples from PB-3, PB-4, PB-7, PB-8, WGWC-8, and WGWC-19 were available. Cores from the following locations were selected for laboratory analyses:

- PB-3 and PB-4 are located in proximity to WGWC-9 (**Figure 1** and **Figure 2**) and cores were available at each location from the approximate screen interval of WGWC-9. Boring logs for PB-3 and PB-4 indicate quartzite present from just below ground surface to approximately 40 feet below ground surface (ft bgs) at PB-3 and from approximately 15 ft bgs to approximately 50 ft bgs at PB-4. Gneiss was encountered underlying the quartzite unit at an elevation of approximately 765 feet relative to the North American Vertical Datum of 1988 (ft NAVD88) at PB-3 and 759 ft NAVD88 at PB-4. WGWC-9 is screened from approximately 761 to 751 ft NAVD88 in PWR, indicating that the weathered rock unit within the WGWC-9 well screen interval consists of weathered gneiss of the same unit encountered at PB-3 and PB-4.
- PB-7 and PB-8 are located in proximity to WGWC-10 (**Figure 1** and **Figure 2**) and cores were available at each location from the approximate screen interval of WGWC-10. Samples representing schist of the schist-amphibolite bedrock unit

² The 2018 ASD identified rock core samples collected at WGWC-19 between depths of 77 and 92 feet below ground surface (ft bgs) as representative of the schist-amphibolite bedrock unit. Review of the *Geologic and Hydrogeologic Report* (Golder, 2018) and the boring logs for WGWC-19, WAMW-1, and WAMW-2, indicates the core samples consisted of graywacke (samples collected between 77 and 86 ft bgs) and micaceous schist (samples collected between 88 and 92 ft bgs). The rock core descriptions and location of WGWC-19 are consistent with the button schist lithologic bedrock unit described in the *Geologic and Hydrogeologic Report* (Golder, 2018).

were collected. WGWC-10 is screened from approximately 674 to 664 ft NAVD88 in saprolite and PWR derived from the schist-amphibolite unit.

- Rock core samples from the approximate well screen interval of WGWC-8 were available.
- Rock core samples from the approximate well screen interval of WGWC-19 were available.

Boring logs for locations where rock cores were collected as part of the 2018 ASD and ASD Addendum evaluations, and boring logs for WGWC-9, WGWC-10, WAMW-1 and WAMW-2, are provided in **Appendix A** for reference.

Rock cores were shipped under chain-of-custody protocol to the Eurofins TestAmerica Laboratory in Canton, Ohio, for rock core sample preparation prior to shipment to the Eurofins TestAmerica Laboratory in Knoxville, Tennessee, for total and SEP analyses of lithium. Upon receipt at the laboratory in Canton, each core sample was crushed to achieve a particle size of less than 10 millimeters (mm) and the sample was homogenized. The crushed samples were then shipped to the Knoxville laboratory for analyses.

A 1-gram (g) portion of each sample was digested using hydrofluoric acid, nitric acid, and boric acid, and subsequently analyzed by USEPA Method 6010B for total lithium. To perform SEP analyses, an aliquot of each sample was sequentially extracted through a series of seven steps to remove lithium from specific solid-associated phases using progressively stronger reagents to solubilize metals from increasingly recalcitrant phases. Details of the reagents and digestion method used at each step are provided in **Table 2**, and in the Eurofins TestAmerica laboratory analytical reports provided in **Appendix B**. Laboratory analytical results of the ten core samples analyzed for total lithium and lithium by SEP in 2020 are provided in **Table 3**.

As a first step to evaluate data quality in an SEP analysis, a comparison of the total concentrations of a metal with the sum of the individual extraction steps should be made. While not expected to be exactly the same, these results should be consistent with each other. As can be seen in **Table 3**, the totals analyses for lithium and the sum of lithium from extraction steps 1 through 7 match very well, indicating good metal recovery in the SEP steps and data quality.

Total lithium concentrations in these cores ranged from 17 mg/kg to 130 mg/kg, indicating substantial concentrations of naturally occurring lithium, which is consistent with the findings presented in the 2018 ASD. In addition, little to no lithium was

recovered in the first three extractions steps, which include the Exchangeable Phase (Step 1), the Carbonate Phase (Step 2), and the Non-Crystalline Materials Phase (Step 3). This is not surprising given that these mineral phases are either not present at the Site (i.e., carbonates) and that lithium does not readily sorb to these mineral phases. Extraction Step 4 (Metal Hydroxide Phase) was the first step to liberate substantial levels of lithium, suggesting that some naturally occurring lithium can go into solution through weathering/dissolution of hydroxides of iron, manganese, and/or aluminum. Extraction Step 5 (Organic Phase) yielded some detectable concentrations of lithium, but generally at lower levels compared to Step 4. This suggests that relatively little lithium is associated with organic phases in these samples. This is also not surprising given that little to no organic matter would be expected in these rock core samples. The bulk of the total lithium was leached in Steps 6 (Acid/Sulfide Fraction) and 7 (Residual Fraction), indicating a fairly recalcitrant fraction of lithium that can only be liberated through weathering of the rock/mineral matrix containing the lithium.

The SEP results suggest that lithium in rock cores is mostly associated with hydroxides of iron, manganese and/or aluminum as well as the refractory fractions that will liberate lithium through mineral weathering. The association of lithium in these fractions strongly suggests a natural occurrence of lithium in the mineral fraction and that weathering of lithium-bearing minerals releases lithium to groundwater at the Site.

2.3 Natural Variation of Groundwater Quality

Based on the lack of correlations between lithium and Appendix III parameters described in Section 2.1 and the presence of substantial concentrations of total lithium of up to 130 mg/kg in rock cores at the Site analyzed in 2020, it is apparent that lithium found in groundwater at the Site is likely derived from natural sources. Site-specific lithium concentrations in rock cores are substantially higher than mean lithium concentrations of about 17 mg/kg found in soils and regoliths from the Eastern United States (Shacklette et al., 1973) and higher than the upper concentration range of 60 mg/kg found in soils of the Georgia Piedmont (Anderson et al., 1988). Further, as presented in the 2018 ASD, site-specific lithium concentrations in rock cores are higher than those reported as naturally occurring in earth's crust (Taylor, 1964; Turekian and Wedepohl, 1961).

To further evaluate whether these naturally elevated lithium concentrations in rock cores could explain the lithium concentrations found in groundwater, theoretical groundwater lithium concentrations were calculated. To do that, site-specific total lithium concentrations in rock cores were divided by a literature-derived K_d of 300 L/kg for lithium (Baes et al., 1984). This K_d value is consistent with the value of 245 L/kg cited in Robinson et al. (2018) for geogenic lithium. The resulting predicted groundwater

concentrations were compared with actual groundwater concentrations found in wells associated with these rock samples. The results are summarized in **Table 4**.

As can be seen in **Table 4**, the calculated (i.e., predicted) groundwater concentrations based on total lithium concentrations in individual rock cores and using a K_d of 300 L/kg ranged from 0.057 mg/L to 0.433 mg/L, and were consistently higher than the observed groundwater concentrations in the four wells of interest, which ranged from 0.0054 mg/L in WGWC-10 to 0.056 mg/L in WGWC-19 during the September 2020 sampling event. This was especially pronounced in rock cores with higher lithium concentrations that overpredicted groundwater lithium concentrations by a factor of up to 80 in boring PB-7. This suggests that the range of lithium concentrations observed in site-specific groundwater can be explained by naturally occurring lithium in rock cores. The overprediction of groundwater concentrations indicates that site-specific K_d values are variable and much higher than 300 L/kg, which is consistent with the SEP results that showed a substantial portion of lithium bound to recalcitrant mineral phases that require weathering of the minerals within the rock matrix to liberate lithium. In summary, lithium concentrations in Site groundwater reflect natural variations of groundwater quality through groundwater interactions with the rock formations.

3. CONCLUSIONS

Based on the information presented in the 2018 ASD and this ASD Addendum, the lithium SSLs reported in the *2018 Annual Groundwater Monitoring and Corrective Action Report*, the *2019 Annual Groundwater Monitoring and Corrective Action Report*, and the *2020 Semiannual Groundwater Monitoring and Corrective Action Report* are not attributed to a release from AP-1 at the Site. Furthermore, subsequent to the second semiannual groundwater assessment event in 2019, lithium concentrations in well WGWC-10 no longer constitute an SSL for lithium in this well. The following lines of evidence demonstrate that the SSLs are likely the result of natural variation in groundwater quality due to naturally occurring lithium in rock units southeast and south of the Site and not a release from AP-1:

- Lack of Correlation Between Lithium and Boron:
 - Where detected (i.e., in wells WGWC-8 and WGWC-9), boron either does not show a correlation with lithium (WGWC-9), or it is negatively correlated (WGWC-8), suggesting different sources for boron and lithium. Groundwater samples from wells WGWC-10 and WGWC-19 are either non-detect for boron or have low-level estimated concentrations consistent with background conditions.
 - The lack of boron detections and low concentrations of other CCR indicator parameters at WGWC-19, the well with the highest lithium detections in groundwater, further indicates that lithium in groundwater does not originate from AP-1.
- Rock Core Samples:
 - Rock cores representative of the screened intervals of wells showing lithium SSLs contain lithium ranging from 17 mg/kg to 130 mg/kg indicating a significant source of lithium, above average crustal abundance, in the subsurface formations.
 - A seven-step sequential extraction of rock cores representative of the screened intervals of wells showing lithium SSLs indicate that lithium is associated with the hydroxide-phases of iron, manganese and/or aluminum, and the refractory fraction. This supports a natural occurrence of lithium in the mineral fraction that can be released to groundwater through mineral weathering.

- Natural Variation of Groundwater Conditions:
 - Using the results from the total lithium analyses, predicted groundwater concentrations were calculated using a literature-derived K_d value of 300 L/kg for lithium. The predicted groundwater results were consistently higher than the observed groundwater concentrations, suggesting that the lithium detected in these groundwater locations can be explained by naturally occurring lithium from weathering of the formation.

Plant Wansley AP-1 will remain in assessment monitoring and assessment of corrective measures is not required. Assessment monitoring results will continue to be presented in Annual and Semiannual Groundwater Monitoring and Corrective Action Reports. A copy of the ASD Addendum will be provided as an appendix to the 2021 Semiannual Groundwater Monitoring and Corrective Action Report due to GA EPD in August 2021.

4. REFERENCES

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TABLES

Table 1
Lithium and Appendix III Concentrations in Groundwater and Pearson's Correlation Coefficients
Plant Wansley AP-1, Carroll and Heard Counties, Georgia

| WGWC-8 | | | | | | | | |
|--|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Boron | Lithium | Calcium | Chloride | Fluoride | Sulfate | TDS | pH |
| 5/19/2016 | 1.4 | 0.0215 | 31.4 | 17.5 | 0.304 | 146 | 311 | 5.99 |
| 7/20/2016 | 1.4 | 0.0260 | 28 | 19 | 0.27 | 150 | 290 | 6.19 |
| 9/15/2016 | 1.2 | 0.0570 | 27 | 19 | 0.24 | 140 | 270 | 6.38 |
| 11/14/2016 | 1.3 | 0.0170 | 32 | 25 | 0.2 | 160 | 320 | 5.7 |
| 2/6/2017 | 1.8 | 0.0120 | 41 | 33 | 0.27 | 180 | 330 | 5.66 |
| 3/15/2017 | 1.7 | 0.0140 | 38 | 38 | 0.25 | 170 | 370 | 5.77 |
| 4/26/2017 | 2 | 0.0091 | 39 | 42 | 0.31 | 180 | 380 | 5.39 |
| 8/10/2017 | 1.8 | 0.0130 | 53 | 48 | 0.37 | 180 | 380 | 5.59 |
| 10/12/2017 | 1.8 | 0.0180 | 60 | 60 | 0.35 | 180 | 450 | 5.46 |
| 6/14/2018 | 1.7 | 0.0150 | 52 | 58 | 0.56 | 170 | 410 | 5.76 |
| 10/4/2018 | 1.9 | 0.0130 | 65 | 300 | 0.27 | 780 | 520 | 5.39 |
| 4/3/2019 | 1.7 | 0.0150 | 61 | 70 | 0.5 | 180 | 430 | 5.55 |
| 9/19/2019 | 1.7 | 0.0140 | 57 | 70 | 0.42 | 190 | 440 | 5.39 |
| 3/19/2020 | 2.2 | 0.0150 | 79 | 98 | 0.057 | 200 | 540 | 6.43 |
| 9/22/2020 | 2.5 | 0.0130 | 81 | 100 | 0.14 | 200 | 600 | 5.17 |
| Pearson's Correlation Coefficient (r) - Boron | --- | -0.60 | 0.84 | 0.44 | -0.27 | 0.23 | 0.87 | -0.47 |
| p-value | | 0.0181 | 0.0009 | 0.1007 | 0.3304 | 0.4096 | 0.0003 | 0.0771 |
| Pearson's Correlation Coefficient (r) - Lithium | --- | --- | -0.47 | -0.28 | -0.13 | -0.20 | -0.50 | 0.63 |
| p-value | | | 0.0771 | 0.3121 | 0.6442 | 0.4748 | 0.0577 | 0.0118 |

Notes:

- (1) Results reported in milligrams per liter (mg/L)
- (2) Pearson's correlation coefficients for boron at WGWC-10 and WGWC-19 cannot be calculated due to insufficient boron detections.
- (3) Positive correlations are shown in black font. Negative correlations are shown in red font.
- (4) Statistically significant correlations are bold. p-value ≤ 0.05 indicate the correlation is statistically significant.

TDS = Total dissolved solids

ND = Not detected at the laboratory method detection limit (MDL)

Table 1
Lithium and Appendix III Concentrations in Groundwater and Pearson's Correlation Coefficients
Plant Wansley AP-1, Carroll and Heard Counties, Georgia

| WGWC-9 | | | | | | | | |
|--|-------|---------|---------------|---------------|---------------|-----------------|---------------|---------------|
| | Boron | Lithium | Calcium | Chloride | Fluoride | Sulfate | TDS | pH |
| 5/19/2016 | 0.31 | 0.0335 | 8.53 | 1.46 | 1.58 | 35.9 | 134 | 6.31 |
| 7/20/2016 | 0.25 | 0.024 | 8.2 | 1.5 | 2.0 | 37 | 120 | 6.35 |
| 9/14/2016 | 0.30 | 0.039 | 8.8 | 1.4 | 1.8 | 39 | 140 | 6.33 |
| 2/9/2017 | 0.61 | 0.04 | 10 | 1.5 | 1.3 | 60 | 180 | 6.03 |
| 3/15/2017 | 0.42 | 0.035 | 8.6 | 1.3 | 1.3 | 44 | 160 | 5.99 |
| 4/11/2017 | 0.37 | 0.034 | 8.6 | 1.2 | 1.4 | 36 | 120 | 6.04 |
| 4/26/2017 | 0.38 | 0.029 | 7.1 | 1.2 | 1.5 | 37 | 140 | 6.03 |
| 8/10/2017 | 0.29 | 0.038 | 7.5 | 1.3 | 1.6 | 38 | 130 | 5.86 |
| 10/12/2017 | 0.36 | 0.048 | 8.2 | 1.4 | 1.5 | 37 | 120 | 6.09 |
| 6/14/2018 | 0.39 | 0.034 | 7.5 | 1.2 | 1.4 | 37 | 120 | 6.47 |
| 10/4/2018 | 0.37 | 0.039 | 8.0 | 1.2 | 1.4 | 38 | 140 | 6.17 |
| 4/3/2019 | 0.35 | 0.035 | 7.2 | 2.0 | 1.3 | 41 | 120 | 6.1 |
| 9/19/2019 | 0.39 | 0.036 | 8.1 | 1.5 | 1.3 | 42 | 130 | 6.38 |
| 3/19/2020 | 0.55 | 0.039 | 9.3 | 2.1 | 1.0 | 45 | 160 | 6.64 |
| 9/23/2020 | 0.68 | 0.033 | 10 | 2.4 | 0.8 | 54 | 150 | 5.8 |
| Pearson's Correlation Coefficient (r) - Boron | --- | 0.18 | 0.73 | 0.61 | -0.85 | 0.87 | 0.71 | -0.20 |
| p-value | | 0.5209 | 0.0020 | 0.0157 | 0.0001 | 2.50E-05 | 0.0030 | 0.4748 |
| Pearson's Correlation Coefficient (r) - Lithium | --- | --- | 0.20 | -0.02 | -0.24 | 0.16 | 0.19 | -0.04 |
| p-value | | | 0.4748 | 0.9436 | 0.3889 | 0.5689 | 0.4976 | 0.8874 |

Notes:

- (1) Results reported in milligrams per liter (mg/L)
- (2) Pearson's correlation coefficients for boron at WGWC-10 and WGWC-19 cannot be calculated due to insufficient boron detections.
- (3) Positive correlations are shown in black font. Negative correlations are shown in red font.
- (4) Statistically significant correlations are bold. p-value ≤ 0.05 indicate the correlation is statistically significant.

TDS = Total dissolved solids

ND = Not detected at the laboratory method detection limit (MDL)

Table 1
Lithium and Appendix III Concentrations in Groundwater and Pearson's Correlation Coefficients
Plant Wansley AP-1, Carroll and Heard Counties, Georgia

| WGWC-10 | | | | | | | | |
|--|-------|--|---------------|----------|---------------|---------------|--------|-----------------|
| | Boron | Lithium | Calcium | Chloride | Fluoride | Sulfate | TDS | pH |
| 5/18/2016 | ND | 0.0320 | 7.17 | 1.45 | 0.206 | 2.84 | 70 | 8.96 |
| 7/20/2016 | ND | 0.0210 | 7 | 1.6 | 0.23 | 2.8 | 42 | 8.57 |
| 9/14/2016 | ND | 0.0200 | 7.7 | 1.5 | 0.17 | 2.8 | 40 | 7.22 |
| 11/11/2016 | ND | 0.0170 | 8.2 | 1.5 | 0.14 | 2.6 | 72 | 6.96 |
| 2/6/2017 | ND | 0.0160 | 9.1 | 1.4 | 0.15 | 2.7 | 24 | 6.93 |
| 3/15/2017 | 0.032 | 0.0140 | 9 | 1.4 | 0.16 | 2.7 | 78 | 6.82 |
| 4/26/2017 | ND | 0.0110 | 8.1 | 1.3 | 0.17 | 2.5 | 48 | 6.73 |
| 8/10/2017 | ND | 0.0110 | 8.1 | 1.4 | 0.2 | 2.2 | 38 | 6.66 |
| 10/12/2017 | ND | 0.0160 | 8.6 | 1.3 | 0.14 | 1.9 | 72 | 6.67 |
| 6/14/2018 | ND | 0.0084 | 7.7 | 1.3 | 0.15 | 2 | 40 | 6.56 |
| 10/4/2018 | ND | 0.0085 | 8.5 | 1.3 | 0.18 | 1.9 | 60 | 6.40 |
| 4/4/2019 | 0.024 | 0.0059 | 7.9 | 1.4 | 0.13 | 2.2 | 30 | 6.46 |
| 9/19/2019 | ND | 0.0075 | 7.5 | 1.5 | 0.13 | 2.1 | 52 | 6.45 |
| 3/18/2020 | 0.049 | 0.0071 | 7.5 | 1.5 | 0.052 | 2.1 | 58 | 6.40 |
| 9/23/2020 | ND | 0.0054 | 7.7 | 1.3 | 0.090 | 1.8 | 50 | 6.14 |
| Pearson's Correlation Coefficient (r) - Boron | --- | Insufficient detections of boron to completed evaluation of correlation of boron to lithium, and boron to other Appendix III constituents | | | | | | |
| p-value | | | | | | | | |
| Pearson's Correlation Coefficient (r) - Lithium | --- | --- | -0.18 | 0.41 | 0.62 | 0.76 | 0.27 | 0.91 |
| p-value | | | 0.5209 | 0.1291 | 0.0137 | 0.0010 | 0.3304 | 1.00E-05 |

Notes:

- (1) Results reported in milligrams per liter (mg/L)
- (2) Pearson's correlation coefficients for boron at WGWC-10 and WGWC-19 cannot be calculated due to insufficient boron detections.
- (3) Positive correlations are shown in black font. Negative correlations are shown in red font.
- (4) Statistically significant correlations are bold. p-value ≤ 0.05 indicate the correlation is statistically significant.

TDS = Total dissolved solids

ND = Not detected at the laboratory method detection limit (MDL)

Table 1
Lithium and Appendix III Concentrations in Groundwater and Pearson's Correlation Coefficients
Plant Wansley AP-1, Carroll and Heard Counties, Georgia

| WGWC-19 | | | | | | | | |
|--|-------|--|---------|----------|---------------|---------|--------|---------------|
| | Boron | Lithium | Calcium | Chloride | Fluoride | Sulfate | TDS | pH |
| --- | --- | --- | --- | --- | --- | --- | --- | 6.93 |
| 11/11/2016 | ND | 0.0450 | 12 | 2.6 | 0.32 | 3.4 | 98 | 6.80 |
| 2/6/2017 | ND | 0.0500 | 11 | 2.6 | 0.45 | 3.7 | 36 | 6.78 |
| 3/15/2017 | ND | 0.0520 | 10 | 2.4 | 0.37 | 3.6 | 120 | 6.79 |
| 4/11/2017 | ND | 0.0480 | 11 | 2.3 | 0.37 | 3.2 | 68 | 6.82 |
| 4/26/2017 | ND | 0.0440 | 8.4 | 2.3 | 0.4 | 3.3 | 76 | 6.76 |
| 6/7/2017 | ND | 0.0470 | 9 | 2.5 | 0.35 | 3.8 | 74 | 6.99 |
| 7/11/2017 | ND | 0.0450 | 9.5 | 2.3 | 0.39 | 3.3 | 70 | 6.59 |
| 8/10/2017 | ND | 0.0560 | 8.8 | 2.5 | 0.42 | 3.7 | 66 | 6.72 |
| 6/14/2018 | ND | 0.0480 | 8.9 | 2.4 | 0.35 | 3.5 | 74 | 6.67 |
| 10/4/2018 | ND | 0.0620 | 10 | 2.6 | 0.35 | 4.6 | 100 | 6.75 |
| 4/2/2019 | ND | 0.0520 | 11 | 2.5 | 0.33 | 3.8 | 88 | 6.71 |
| 9/18/2019 | 0.024 | 0.0520 | 8.8 | 2.7 | 0.32 | 3.6 | 96 | 6.9 |
| 5/4/2020 | ND | 0.0490 | 15 | 2.8 | 0.36 | 4.5 | 110 | 7.11 |
| 9/23/2020 | ND | 0.0560 | 13 | 2.6 | 0.25 | 3.0 | 94 | 6.59 |
| Pearson's Correlation Coefficient (r) - Boron | --- | Insufficient detections of boron to completed evaluation of correlation of boron to lithium, and boron to other Appendix III constituents | | | | | | |
| p-value | | | | | | | | |
| Pearson's Correlation Coefficient (r) - Lithium | --- | --- | 0.06 | 0.39 | -0.22 | 0.44 | 0.25 | -0.17 |
| p-value | | | 0.8385 | 0.1680 | 0.4498 | 0.1154 | 0.3887 | 0.5612 |

Notes:

- (1) Results reported in milligrams per liter (mg/L)
- (2) Pearson's correlation coefficients for boron at WGWC-10 and WGWC-19 cannot be calculated due to insufficient boron detections.
- (3) Positive correlations are shown in black font. Negative correlations are shown in red font.
- (4) Statistically significant correlations are bold. p-value ≤ 0.05 indicate the correlation is statistically significant.

TDS = Total dissolved solids

ND = Not detected at the laboratory method detection limit (MDL)

Table 2
 Summary of Seven-Step Sequential Extraction Procedure
 Plant Wansley AP-1, Carroll and Heard Counties, Georgia

| Sequential Extraction Procedure Steps ⁽¹⁾ | |
|---|---|
| Step 1 - Exchangeable Phase | This extraction includes trace elements that are reversibly sorbed to soil minerals, amorphous solids, and/or organic material by electrostatic forces. These forces may be overcome by exposing the soil to a concentrated electrolyte solution, such as magnesium sulfate (MgSO ₄) that displaces the trace elements from solid surfaces. |
| Step 2 - Carbonate Phase | This extraction targets trace elements that are sorbed or otherwise bound to carbonate minerals. This phase is soluble in a mild acid solution such as sodium acetate/acetic acid (NaOAc/HOAc) at pH 5. |
| Step 3 - Non-Crystalline Materials Phase | This extraction targets trace elements that are complexed by amorphous minerals (e.g. iron). This phase is extracted with ammonium oxalate (pH 3). |
| Step 4 - Metal Hydroxide Phase | Trace elements bound to hydroxides of iron, manganese, and/or aluminum are extracted using a solution of hydroxylamine hydrochloride in acetic acid. |
| Step 5 - Organic-Bound Phase | This extraction targets trace elements strongly bound via chemisorption to organic material. Oxidation of soil organic matter using sodium hypochlorite (NaClO at pH 9.5), will bring into solution metals bound to organic functional groups. |
| Step 6 - Acid/Sulfide Fraction | The extraction is used to identify trace elements precipitated as sulfide minerals. Metals associated with sulfide minerals will be extracted by leaching the soils with a solution of hydrochloric acid, nitric acid, and water (HCl-HNO ₃ -H ₂ O) to dissolve the metal sulfide minerals. |
| Step 7 - Residual Fraction | Trace elements remaining in the soil after the previous extractions will be distributed between silicates, phosphates, and refractory oxides. These residual metals can be removed from the soil through total dissolution with hydrofluoric acid (HF), nitric acid (HNO ₃), hydrochloric acid (HCl), and boric acid (H ₃ BO ₃). |

Notes:

(1) Sample were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7-Step Sequential Extraction Procedure". EPA Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

Table 3
 Total and Sequential Extraction Concentrations of Lithium in Rock Core Samples
 Plant Wansley AP-1, Carroll and Heard Counties, Georgia

| | PB-3 ⁽¹⁾ | PB-3 ⁽¹⁾ | PB-4 ⁽¹⁾ | PB-4 ⁽¹⁾ | PB-4 ⁽¹⁾ | PB-7 ⁽²⁾ | PB-8 ⁽²⁾ | WGWC-8 | WGWC-19 | WGWC-19 |
|---|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------|--------------------------------|----------------|---------------------------|---------------------------|
| Sample Location: | | | | | | | | | | |
| Sample Depth (ft bgs): | 47 - 52 | 57-61 | 49-59 | 64-68 | 73-80 | 144 - 154 | 135 - 145 | 47 - 57 | 87 - 88 | 89 - 90 |
| Sample Elevation (ft NAVD88): | 757 - 752 | 747 - 743 | 760 - 750 | 745 - 741 | 736 - 729 | 672 - 662 | 712 - 702 | 731 - 721 | 694 - 693 | 692 - 691 |
| Screen Interval of Compliance Well (ft NAVD88) ⁽³⁾: | NA | NA | NA | NA | NA | NA | NA | 730 - 720 | 699 - 689 | 699 - 689 |
| Adjacent Compliance Well and Approximate Screen Interval (ft NAVD88) ⁽⁴⁾: | WGWC-9 (761 - 751) | WGWC-9 (761 - 751) | WGWC-9 (761 - 751) | WGWC-9 (761 - 751) | WGWC-9 (761 - 751) | WGWC-10 (674 - 664) | WGWC-10 (674 - 664) | NA | NA | NA |
| Sample Analysis Date: | Sept - Nov 2020 | Sept - Nov 2020 | Sept - Nov 2020 | Sept - Nov 2020 | Sept - Nov 2020 | Sept - Nov 2020 | Sept - Nov 2020 | Oct - Nov 2020 | Sept - Oct 2020 | Sept - Oct 2020 |
| Rock Type (Unit): | Gneiss (Long Island Creek Gneiss) | Gneiss (Long Island Creek Gneiss) | Gneiss (Long Island Creek Gneiss) | Gneiss (Long Island Creek Gneiss) | Gneiss (Long Island Creek Gneiss) | Schist (Schist-Amphibolite) | Schist (Schist-Amphibolite) | Quartzite | Schist (Button Schist) | Schist (Button Schist) |
| Sequential Extraction Results (mg/kg) | | | | | | | | | | |
| Extraction - Step 1 | <0.60 | <0.61 | <0.61 | <0.61 | <0.60 | <0.60 | <0.60 | <0.61 | <0.62 | <0.62 |
| Extraction - Step 2 | <0.45 | <0.45 | <0.45 | 0.56 J | <0.45 | 0.69 J | 0.63 J | <0.46 | <0.46 | <0.47 |
| Extraction - Step 3 | 0.20 J | 0.37 J | 0.23 J | 0.52 J | 0.25 J | 0.57 J | 0.34 J | <0.15 | 0.52 J | 0.52 J |
| Extraction - Step 4 | 5.7 | 1.3 J | 8.1 | 8.1 | 6.7 | 11 | 2.3 J | 1.2 J | 11 | 12 |
| Extraction - Step 5 | 3.1 J | 2.7 J | 3.2 J | 3.7 J | 3.9 J | 6.9 J | 2.6 J | <2.2 | 5.7 J | 5.1 J |
| Extraction - Step 6 | 4.1 | 1.8 J | 4.7 J | 14 | 7.9 | 69 | 35 | 1.1 J | 55 | 45 |
| Extraction - Step 7 | 10 | 11 | 14 | 10 | 14 | 53 | 18 | 10 | 26 | 20 |
| Sum of Steps 1-7 | 23 | 17 | 31 | 37 | 32 | 140 | 59 | 12 | 98 | 83 |
| Total Lithium Concentration in Core (mg/kg) | 22 | 17 | 36 | 43 | 36 | 130 | 53 | 17 | 86 | 70 |

Notes:

ft bgs = feet below ground surface

ft NAVD88 = North American Vertical Datum of 1988.

mg/kg = milligram per kilogram

(1) The well screen of WGWC-9 is set in weathered gneiss derived from the same bedrock gneiss unit encountered at PB-3 and PB-4.

(2) The well screen of WGWC-10 is set in saprolite and weathered schist derived from the same bedrock schist-amphibolite unit encountered at PB-7 and PB-8.

(3) Screen interval of compliance well shown for comparison to core sample collection interval. NA if core sample location is not a compliance well.

(4) Screen interval of adjacent compliance well or compliance well completed in same geologic formation for comparison to core sample collection interval. NA if core sample location is a compliance well.

Table 4
Comparison of Predicted and Measured Lithium Concentrations in Groundwater
Plant Wansley AP-1, Carroll and Heard Counties, Georgia

| | PB-3 ⁽¹⁾ | PB-3 ⁽¹⁾ | PB-4 ⁽¹⁾ | PB-4 ⁽¹⁾ | PB-4 ⁽¹⁾ | PB-7 ⁽²⁾ | PB-8 ⁽²⁾ | WGWC-8 | WGWC-19 | WGWC-19 |
|---|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------|--------------------------------|----------------|---------------------------|---------------------------|
| Sample Location: | | | | | | | | | | |
| Sample Depth (ft bgs): | 47 - 52 | 57 - 61 | 49 - 59 | 64 - 68 | 73 - 80 | 144 - 154 | 135 - 145 | 47 - 57 | 87 - 88 | 89 - 90 |
| Sample Elevation (ft NAVD88): | 758 - 753 | 748 - 744 | 760 - 750 | 745 - 741 | 736 - 729 | 673 - 663 | 712 - 702 | 731 - 721 | 694 - 693 | 692 - 691 |
| Screen Interval of Compliance Well (ft NAVD88) ⁽³⁾: | NA | NA | NA | NA | NA | NA | NA | 730 - 720 | 699 - 689 | 699 - 689 |
| Adjacent Compliance Well and Approximate Screen Interval (ft NAVD88) ⁽⁴⁾: | WGWC-9 (761 - 751) | WGWC-9 (761 - 751) | WGWC-9 (761 - 751) | WGWC-9 (761 - 751) | WGWC-9 (761 - 751) | WGWC-10 (674 - 664) | WGWC-10 (674 - 664) | NA | NA | NA |
| Sample Analysis Date: | Sept - Nov 2020 | Sept - Nov 2020 | Sept - Nov 2020 | Sept - Nov 2020 | Sept - Nov 2020 | Sept - Nov 2020 | Sept - Nov 2020 | Oct - Nov 2020 | Sept - Oct 2020 | Sept - Oct 2020 |
| Rock Type (Unit): | Gneiss (Long Island Creek Gneiss) | Gneiss (Long Island Creek Gneiss) | Gneiss (Long Island Creek Gneiss) | Gneiss (Long Island Creek Gneiss) | Gneiss (Long Island Creek Gneiss) | Schist (Schist-Amphibolite) | Schist (Schist-Amphibolite) | Quartzite | Schist (Button Schist) | Schist (Button Schist) |
| Total Lithium Concentration in Core (mg/kg) | 22 | 17 | 36 | 43 | 36 | 130 | 53 | 17 | 86 | 70 |
| Predicted Lithium in Groundwater (mg/L) ⁽⁵⁾ | 0.073 | 0.057 | 0.120 | 0.143 | 0.120 | 0.433 | 0.177 | 0.057 | 0.287 | 0.233 |
| Actual Lithium in Groundwater (mg/L) ⁽⁶⁾ | 0.033 ⁽⁷⁾ | 0.033 ⁽⁷⁾ | 0.033 ⁽⁷⁾ | 0.033 ⁽⁷⁾ | 0.033 ⁽⁷⁾ | 0.0054 ⁽⁸⁾ | 0.0054 ⁽⁸⁾ | 0.013 | 0.056 | 0.056 |

Notes:

ft bgs = feet below ground surface

ft NAVD88 = North American Vertical Datum of 1988.

mg/kg = milligram per kilogram

mg/L - milligram per liter

(1) The well screen of WGWC-9 is set in weathered gneiss derived from the same bedrock gneiss unit encountered at PB-3 and PB-4.

(2) The well screen of WGWC-10 is set in saprolite and weathered schist derived from the same bedrock schist-amphibolite unit encountered at PB-7 and PB-8.

(3) Screen interval of compliance well shown for comparison to core sample collection interval. NA if core sample location is not a compliance well.

(4) Screen interval of adjacent compliance well or compliance well completed in same geologic formation for comparison to core sample collection interval. NA if core sample location is a compliance well.

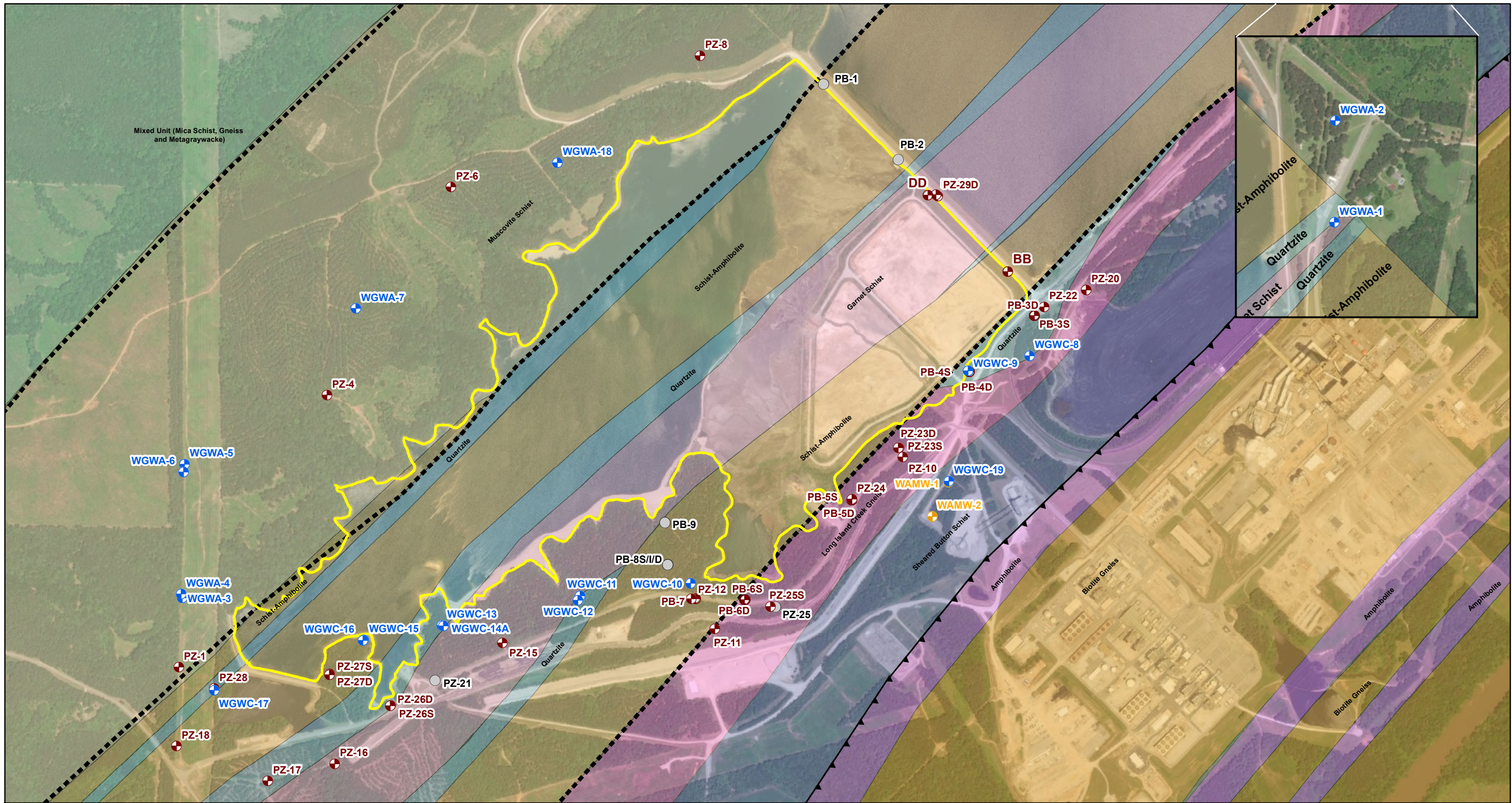
(5) Predicted concentrations of lithium in groundwater based on distribution coefficient ($K_d = 300$ L/kg (Baes et al., 1984). Predicted concentrations calculated by dividing lithium concentrations in cores (mg/kg) by 300 L/kg.

(6) Lithium concentration in compliance well detected during the September 2020 semiannual groundwater assessment event.

(7) Lithium concentration in compliance well WGWC-9 during the September 2020 semiannual groundwater assessment event.

(8) Lithium concentration in compliance well WGWC-10 during the September 2020 semiannual groundwater assessment event.

FIGURES



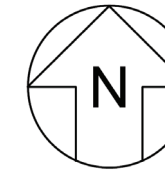
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|---|--|---|
| <ul style="list-style-type: none"> Characterization Monitoring Well Compliance Monitoring Well Piezometer Abandoned Boring/Piezometer Approximate Boundary of AP-1 Strike-Slip Fault Thrust Fault | <ul style="list-style-type: none"> Amphibolite Biotite Gneiss Garnet Schist Long Island Creek Gneiss Mixed Unit (Mica Schist, Gneiss and Metagraywacke) Muscovite Schist | <ul style="list-style-type: none"> Quartzite Schist-Amphibolite Sheared Button Schist |
|---|--|---|

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community 2018.








| | |
|---|---------------|
| Monitoring Well Network, Piezometers, and Site Geology Plant Wansley Georgia Power Company 1371 Liberty Church Road Carrolton, Ga 30116 | |
| | |
| Kennesaw, Ga | February 2021 |
| Figure 1 | |

M:\GA Power\Plant\Wansley\GIS\mxd\2020\ASD\Figure 1. Monitoring Well Network and Rock Core Sampling Location Map_v2.mxd 11/18/2020 12:04:53 PM



LEGEND

-  Compliance Monitoring Well
-  Characterization Monitoring Well
-  Piezometer
-  Test Boring/Piezometer
-  2020 Rock Core Sampling Location



Notes:
1. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, June 2018.



**MONITORING WELL NETWORK AND
2020 ROCK CORE SAMPLING LOCATIONS**

GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For:  Georgia Power


Prepared By: 

KENNESAW, GA NOVEMBER 2020

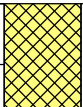
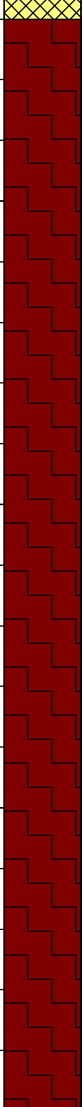
**FIGURE
2**

APPENDIX A

Select Boring Logs


| | | |
|--|--|--|
|  <p>engineers scientists innovators</p> | Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116 | BORING LOG Boring No. PB-3D/3S Page: 1 of 4 |
|--|--|--|

| | | |
|---|--|--|
| Drilling Start Date: 2/23/2017 Drilling End Date: 2/24/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski | Boring Depth (ft): 63 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 804.57 Location (Y, X): 1243273.69, 2029686.62 | Well Depth (ft): (28-38) & (52-62) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand |
|---|--|--|

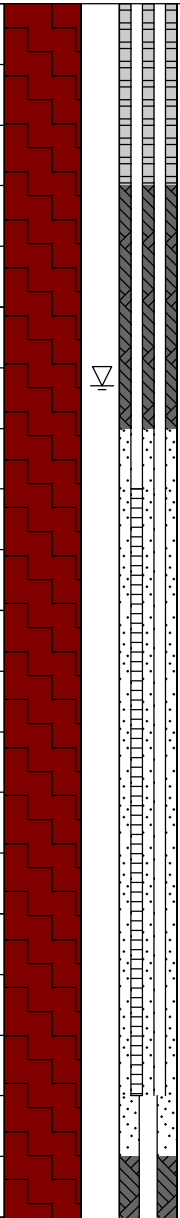

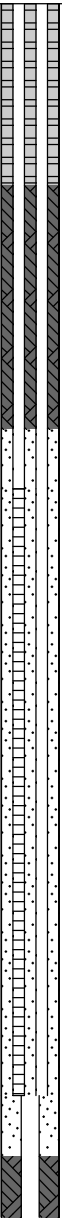
| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|--|-------------|-----------------|-------------|---------------|---------|--|--------|---|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 0 |  | | | | | | (0') SILTY CLAY with gravel, with railroad ballast, fill | | Air-knifed to top of rock | |
| 5 |  | | | | | | (2') METAQUARTZITE, intensely fractured, pale yellow to white, granular, very hard, iron oxide staining, cataclasite, iron oxide scale | | Good water return (~50%) | 800 |
| 10 | | | | | | | (7') METAQUARTZITE, intensely fractured, white to pale brown, granular, iron oxide staining, cataclasite, iron oxide scaling, increasing competency with depth | | Hard drilling, ~50% return | 795 |
| 15 | | | | | | | (17') Same as above, more fractured | | Softer drilling, slightly less water return | 790 |
| 20 | | | | | | | | | | 785 |

NOTE:


C:\Users\jivanowski\Documents\2017\20170223\20170223_01_PlanetWansley_PBDI\Boring PB-3D/3S\Boring Log\Boring Log.dwg

| | | |
|--|--|---|
|  <p>engineers scientists innovators</p> | Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116 | BORING LOG Boring No.- PB-3D/3S Page: 2 of 4 |
|--|--|---|

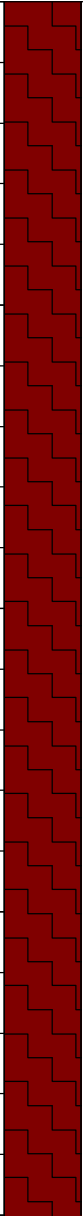


| | | |
|---|--|--|
| Drilling Start Date: 2/23/2017 Drilling End Date: 2/24/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski | Boring Depth (ft): 63 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 804.57 Location (Y, X): 1243273.69, 2029686.62 | Well Depth (ft): (28-38) & (52-62) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand |
|---|--|--|

| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) | | |
|------------|--|---|--|-------------|---------------|---------|--|--|---|------------------------|-------|-----|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | | Photo | |
| 20 |  |  |  | | | | (20') METAQUARTZITE, intensely fractured, pale yellow to white, iron oxide staining, felsic cataclasite, iron oxide staining | | Moderately hard drilling, water recovery ~30% | 780 | | |
| 25 | | | | | | | | | | | 775 | |
| 30 | | | | | | | Photo 8 of photo log | (30') GNEISS, intensely fractured, pale blue to pink, weakly foliated, staining of fracture surfaces | | | | 770 |
| 35 | | | | | | | | (32') METAQUARTZITE, intensely fractured, pale brown to tan, cataclasite, gravelly, highly oxidized | | | | 765 |
| 40 | | | | | | | (36') Same rock as above, more competent, fewer natural fractures | | Harder drilling, water return ~60% | | | |


NOTE:

| | | |
|--|--|--|
|  <p>engineers scientists innovators</p> | Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116 | BORING LOG Boring No. PB-3D/3S Page: 3 of 4 |
|--|--|--|

| | | |
|---|--|--|
| Drilling Start Date: 2/23/2017 Drilling End Date: 2/24/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski | Boring Depth (ft): 63 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 804.57 Location (Y, X): 1243273.69, 2029686.62 | Well Depth (ft): (28-38) & (52-62) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand |
|---|--|--|

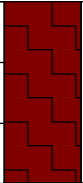
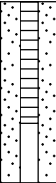
| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|--|--|--|-------------|---------------|---------|---|--------|---|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 40 |  |  |  | | | | (40.5') GNEISS, foliated, pale blue to pink, increasing competency Photo 13 of photo log (47') GNEISS, distinct mineral banding, blueish gray and pink, few very high angle (~65°) healed hairline fractures; high RQD; no oxidation present (49') Becoming more pink, cataclastic, abundant intersecting healed hairline fractures; possible water-bearing fractures at 49.2', 50.7', 52.5', 54.0' (very slight film on fracture surfaces; no staining) (57') GNEISS, low angle open fractures, pale brown to tan, heavily oxidized, scale on surfaces (58') GNEISS, steep foliated, blueish gray | | | 760 |
| 45 | | | | HQ | 2 | 92 | | | Stopped for 2/23/17, started HQ Coring on 2/24/17, water return~80% | 755 |
| 50 | | | | HQ | 7 | 87 | | | Very hard, slow, 2 hrs to drill 7 ft, water return ~80% | 750 |
| 55 | | | | HQ | 3 | 54 | | | Very slow, water recovery ~60% | 745 |
| 60 | | | | | | | | | 745 | |

NOTE:

| | | |
|--|--|--|
|  <p>engineers scientists innovators</p> | Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116 | BORING LOG Boring No. PB-3D/3S Page: 4 of 4 |
|--|--|--|


| | | |
|---|--|--|
| Drilling Start Date: 2/23/2017 Drilling End Date: 2/24/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski | Boring Depth (ft): 63 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 804.57 Location (Y, X): 1243273.69, 2029686.62 | Well Depth (ft): (28-38) & (52-62) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand |
|---|--|--|

| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|-------------|-------------|-----------------|-------------|---------------|---------|----------------------|--------|---------|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |

| | | | | | | | | | | | |
|----|---|--|---|--|--|--|--|---|--|--|--|
| 60 |  | |  | | | | | (58') GNEISS, steep foliated, blueish gray(continued) | | | |
|----|---|--|---|--|--|--|--|---|--|--|--|

(63.0') Boring Terminated


NOTE:

| | | |
|--|--|--|
|  <p>engineers scientists innovators</p> | Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116 | BORING LOG Boring No. PB-4D/4S Page: 1 of 4 |
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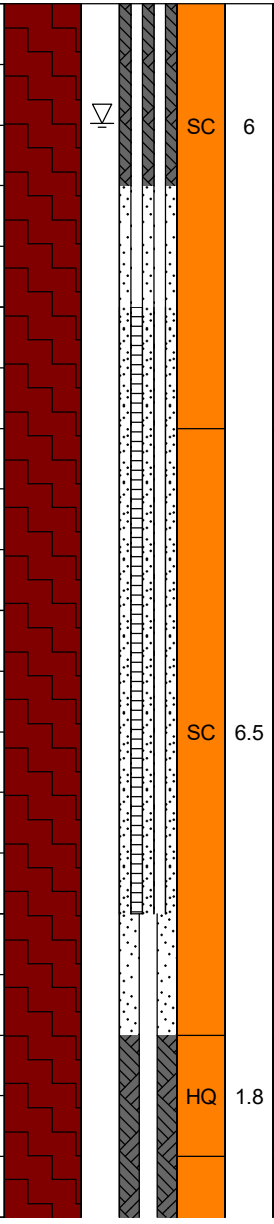

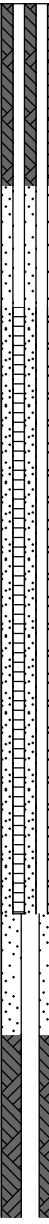
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| Drilling Start Date: 2/21/2017 Drilling End Date: 2/22/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski | Boring Depth (ft): 80 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 809.43 Location (Y, X): 1242790.61, 2029126.42 | Well Depth (ft): (25-35) & (63-73) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|-------------|-------------|-----------------|-------------|---------------|---------|--|--------------|---|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 0 | | | | | | | (0') SANDY SILT with cobbles (ML) | | 0-10' removed by air knife | 805 |
| 5 | | | | | | | (8') Becomes very hard | | | 800 |
| 10 | | | | | | | (10') SILT with angular gravel (ML); very dense, wet, pale yellow to white, relict rock fabric, SAPROLITE | PB-4 (11-12) | | |
| 15 | | | | SC | 8 | | (14') PARTIALLY WEATHERED ROCK, hard, dry, fragments of gneiss (15') SILT with angular gravel (ML); very dense, wet, pale yellow to white, relict rock fabric, SAPROLITE | PB-4 (15-16) | ~75% water recovery Driller reported very hard drilling ~50% water recover | 795 |
| 20 | | | | | | | (16.5') METAGUARTZITE, banded, pale gray to white (17.5') METAGUARTZITE, granular, intensely fractured rock, felsic gneiss to quartzite, abundant oxidation along fractures | | | 790 |


NOTE:

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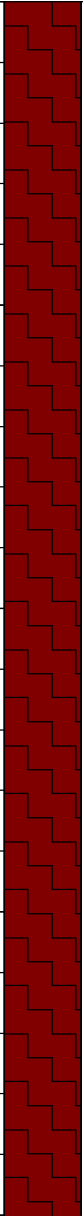


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| Drilling Start Date: 2/21/2017 Drilling End Date: 2/22/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski | Boring Depth (ft): 80 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 809.43 Location (Y, X): 1242790.61, 2029126.42 | Well Depth (ft): (25-35) & (63-73) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|--|---|--|-------------|---------------|------------|---|---|---|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 20 |  |  |  | SC | 6 | | (20') As above; metaquartzite, intensely fractured, iron oxide staining along fracture surfaces, rock is broken into large gravel and small cobble size fragments Photo 5 of photo log | PB-4 (24-25) | Driller reports 50% water return during run | 785 |
| 25 | | | | SC | 6.5 | | | | | Photo 10 of photo log |
| 30 | | | | SC | 6.5 | | | | 775 | |
| 35 | | | | HQ | 1.8 | | (37') As above; intensely fractured, sand and mud filled fracture at 38.1' | Switched to HQ coring, pulled 2' core due to blockage ~40% water return | 770 | |
| 40 | | | | | | ~40% water | | | | |


NOTE:

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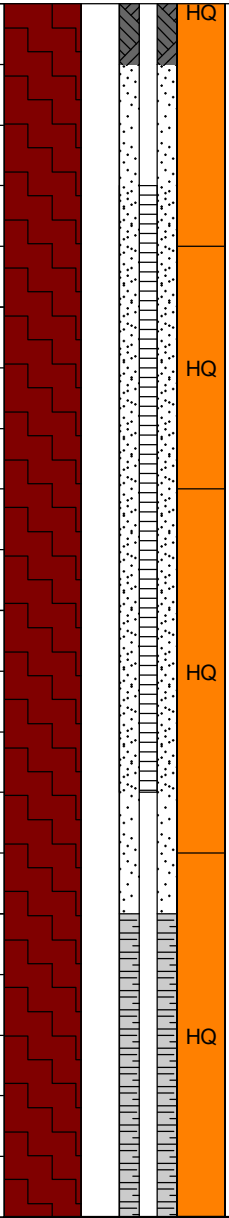


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| Drilling Start Date: 2/21/2017 Drilling End Date: 2/22/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski | Boring Depth (ft): 80 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 809.43 Location (Y, X): 1242790.61, 2029126.42 | Well Depth (ft): (25-35) & (63-73) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) | | | |
|------------|--|--|--|-------------|---------------|---------|---|--|--|--|-------|---|-----|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | | Photo | | |
| 40 |  |  |  | HQ | 5 | 27 | Photo 13 of photo log | | recovery | | | | |
| | | | | | | | | (40') METAQUARTZITE, iron oxide staining, high angle fractures with oxide stained surfaces, surfaces are smooth-undulating | | | | | |
| | | | | | | | | (43') Increasing competency with depth | | | | | |
| 45 | | | | | | | HQ | 5 | 43 | | | ~50% water recovery, used ~200 gallons per 5' run | 765 |
| | | | | | | | | | | (44') Intensely fractured zone, heavily oxidized (44.4') Sand filled fracture | | | |
| | | | | | | | (47') More competent, few high angle fractures, oxidized surfaces (47.9') Mud-filled fracture | | | | | | |
| 50 | | | | | | | (49') GNEISS, banded, dark gray to blue, more competent few fractures, fracture zone at 49.5 | | Used ~250 gal for this 7' run, return ~60% | 760 | | | |
| | | | | | | | (52') Pale yellow to orange, open fracture (52.5') GNEISS, blue to gray, mechanical breaks (53') Pale brown, intensely fractured, oxidized fracture zone at 54.5' | | End for 2/21/17 | | | | |
| 55 | | | | | | | (54.5') GNEISS, blue to gray, mylonitized with white augen, oxidized fractures at 56.4', 59.5', 61.0', 61.5', 61.7', and 62.1' | | ~100 gal water used, ~70% recovery | 755 | | | |
| 60 | | | | | | | | | | 750 | | | |

NOTE:


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|---|--|--|
| Drilling Start Date: 2/21/2017 Drilling End Date: 2/22/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski | Boring Depth (ft): 80 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 809.43 Location (Y, X): 1242790.61, 2029126.42 | Well Depth (ft): (25-35) & (63-73) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) | | |
|------------|--|--|--|-----------------------|---------------|---------|-----------------------|---|---------|------------------------|--|-----|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | | Photo | |
| 60 |  |  |  | HQ | 8 | 64 | Photo 20 of photo log | | | | | |
| 65 | | | | | | | | | | | | |
| | | | | HQ | 4 | 21 | | | | | ~20% water recovery | 745 |
| 70 | | | | | | | | | | | | 740 |
| | | | | HQ | 6 | 74 | Photo 27 of photo log | | | | Very hard, slow drilling, good water return >70% | |
| 75 | | | | | | | | | 735 | | | |
| | HQ | 6 | 90 | Photo 31 of photo log | | | | Very hard, slow drilling, water return ~70% | | | | |
| 80 | | | | | | | | | 730 | | | |

(80.0') Boring Terminated


NOTE:

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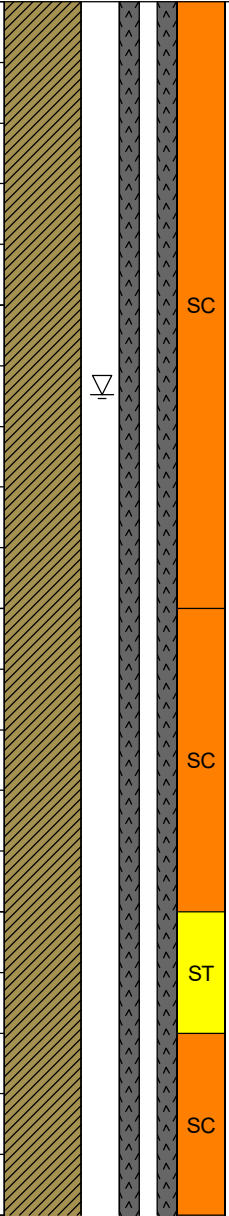

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|--|---|--|
| Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin | Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14 | Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|-------------|-------------|-----------------|-------------|---------------|---------|--|--------------|---------|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 0 | | | | | | | (0') Air knifed for utility clearance | | | 815 |
| 7 | | | | | | | (7') No recovery | | | 810 |
| 10 | | | | SC | 0 | | | | | 805 |
| 15 | | | | SC | 3 | | | | | 800 |
| 20 | | | | | | | (17') CLAY with silt (CL); some silt, medium plasticity, soft, moist, reddish yellow (7.5YR 6/8), foliation (angular rock fragments in a black layer near the bottom), SAPROLITE | PB-7 (18-19) | | |


NOTE:

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|--|---|--|
| Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin | Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14 | Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) | |
|------------|--|-------------|--|-------------|---------------|----------------------|--|--|--------------|------------------------|-------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | | Photo |
| 20 |  | ▽ |  | | | | (17') CLAY with silt (CL); some silt, medium plasticity, soft, moist, reddish yellow (7.5YR 6/8), foliation (angular rock fragments in a black layer near the bottom), SAPROLITE (continued) | PB-7 (24-25) | | 795 | |
| 25 | | | | SC | 6.5 | Photo 2 of photo log | | | | 790 | |
| 30 | | | | SC | 7 | | | (30') Becomes red (2.5YR 5/8) | PB-7 (29-30) | | 785 |
| 35 | | | | ST | 2 | | | (35') Angular fine gravel (quartz) in black layer at 49' | PB-7 (34-35) | | 780 |
| 40 | | | | SC | 3 | | | | PB-7 (35-37) | | |


NOTE:

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| Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin | Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14 | Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|--|--|--|-------------|---------------|---------|--|--------------|---------|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 40 |  |  |  | SC | 10 | | (35') Angular fine gravel (quartz) in black layer at 49' (continued) | PB-7 (44-45) | | 775 |
| 45 | | | | | | | | | | |
| 50 |  |  |  | SC | 12 | | (51') As above, abundant white banding | PB-7 (54-55) | | 765 |
| 55 | | | | | | | | | | |
| 60 | | | | | | | | | | |


NOTE:

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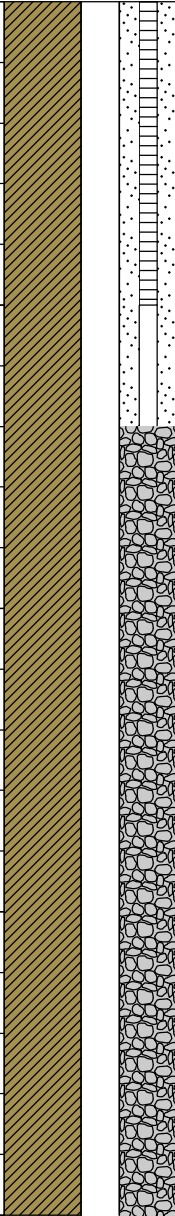
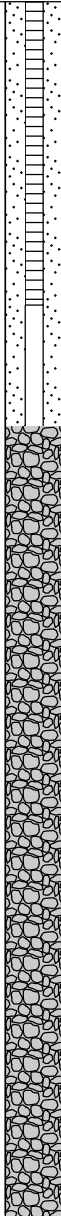
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| Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin | Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14 | Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|--|-------------|--|-------------|---------------|---------|---|--------------|---------|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 60 |  | |  | SC | 11 | | (51') As above, abundant white banding(continued) | PB-7 (64-65) | | 755 |
| 65 | | | | SC | 11 | | (65') Coarse angular cobbles (quartz?) | | | 750 |
| 70 | | | | SC | 10 | | (75') Becomes light olive brown (2.5Y 5/3) | PB-7 (74-75) | | 745 |
| 75 | | | | SC | 10 | | | | | 740 |
| 80 | | | | | | | | | | |


NOTE:

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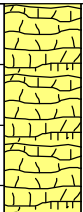

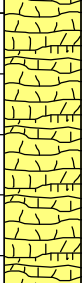



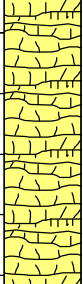



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| Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin | Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14 | Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|--|-------------|--|-------------|---------------|---------|---|--------------|---|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 80 |  | |  | SC | 13.5 | | (80') Becomes brownish yellow (10YR 6/8) | PB-7 (83-84) | | 735 |
| 85 | | | | | | | (86') Fine and coarse gravel (quartz?) layer, angular, up to 2" diameter | PB-7 (84-85) | | 730 |
| 90 | | | | | | | (90') CLAY with intact rock fragment (CL); olive (5Y 4/2), easily broken by hand, some fragments cannot be broken by hand, INTENSELY WEATHERED ROCK | PB-7 (86-87) | | |
| 95 | | | | | | | | PB-7 (90-91) | | 725 |
| 100 | | | | | | | | PB-7 (94-95) | Hard drilling, core barrel is advancing very slowly | 720 |


NOTE:

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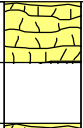

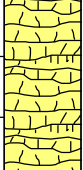







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| Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin | Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14 | Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|---|-------------|---|-------------|---------------|---------|--|----------------|---------------|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 100 |  | |  | | | | (100') PARTIALLY WEATHERED ROCK, slightly weathered, gray (7.5YR 5/1), fine to coarse, moist, thinly to thickly bedded, loose, hard rock fragments (abundant mica, some grains of garnet and quartz) | | | 715 |
| 105 |  | |  | SC | 11.5 | | (104') Becomes reddish yellow (7.5YR 6/8) | PB-7 (104-105) | Hard drilling | 710 |
| 110 |  | |  | SC | 4 | | | PB-7 (108-109) | Hard drilling | 705 |
| 115 |  | |  | SC | 6 | | (115') Becomes gray (7.5YR 5/1) | PB-7 (114-115) | Hard drilling | 700 |
| 120 |  | |  | SC | 1 | | (118') Becomes pinkish gray (7.5YR 6/2), dry | PB (117-119) | Hard drilling | |


NOTE:

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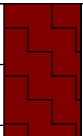

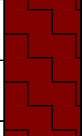

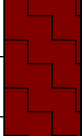

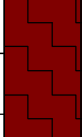

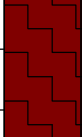

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| Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin | Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14 | Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|---|-------------|---|-------------|---------------|---------|---|----------------|---------------|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 120 |  | |  | | | | (118') Becomes pinkish gray (7.5YR 6/2), dry(continued) | | | |
| | | | | | | | (121') No Recovery | | | 695 |
| | | | | | | | (122') Becomes gray (7.5YR 5/1), moist | | | |
| 125 |  | |  | SC | 9 | | | PB-7 (124-125) | Hard drilling | |
| | | | | | | | | PB-7 (127-128) | | 690 |
| | | | | | | | (128.5') Becomes pinkish gray (7.5YR 6/2), dry | PB-7 (129-130) | | |
| 130 |  | |  | | | | (130') Becomes pinkish gray (7.5YR 5/1), moist, abundant platy rock fragments (schist), some rock fragments contain large grains of quartz and have irregular shape (non-platy) | | | 685 |
| | | | | | | | | | | |
| 135 |  | |  | SC | 6 | | | | Hard drilling | 680 |
| | | | | | | | | PB-7 (137-138) | | |
| 140 |  | |  | | | | | | | |


NOTE:

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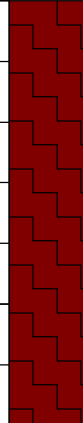

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| Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin | Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14 | Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) | | |
|------------|---|-------------|---|-------------|---------------|---------|--|-----------------------|---------------|--|-------|-----|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | | Photo | |
| 140 |  | |  | SC | 3 | | (140') SCHIST, thinly to thickly bedded, gray (7.5YR 5/1), fine to coarse, very hard, fresh, weak bedding planes and high angle joints, some quartz banding, TOP OF ROCK (143') SCHIST, thinly to thickly bedded, gray (7.5YR 5/1), fine to coarse, very hard, fresh, unfractured, mechanical breaks along high angled joints, few quartz banding, some coarse quartz grains, abundant mica | | Hard drilling | 675 | | |
| 145 |  | |  | HQ | 4 | 100 | | Photo 16 of photo log | | Sonic drilling ends at 143' (3/29/2017), HQ rock coring begins at 143' (3/30/2017) | 670 | |
| 150 |  | |  | HQ | 5.5 | 100 | | | | | | 665 |
| 155 |  | |  | HQ | 5 | 100 | | | | | | 660 |
| 160 |  | |  | | | | Photo 20 | | | | | |

NOTE:


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|--|---|--|
| Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin | Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14 | Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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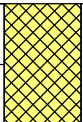

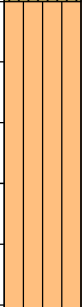
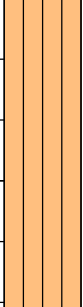
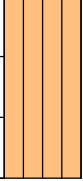
| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|--|-------------|--|-------------|---------------|---------|---|--------|---------|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 160 |  | |  | HQ | 5 | 100 | (143') SCHIST, thinly to thickly bedded, gray (7.5YR 5/1), fine to coarse, very hard, fresh, unfractured, mechanical breaks along high angled joints, few quartz banding, some coarse quartz grains, abundant mica(continued) | | | 655 |
| 165 | | | | HQ | 4.5 | 100 | | | | 650 |

(167.0') Boring Terminated


NOTE:

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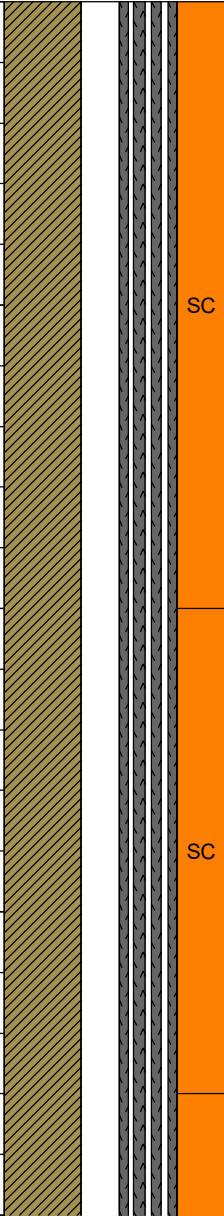
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|---|---|--|
| Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun | Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99 | Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|---|-------------|-----------------|-------------|---------------|---------|--|--------------|---------|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 0 |  | | | | | | (0') Topsoil; FILL | | | |
| 5 |  | | | SC | 10 | | (2') CLAY with silt (CL); some silt, abundant mica, medium plasticity, soft, dry, reddish yellow (7.5YR 6/8), foliation, SAPROLITE | PB-8 (4-5) | | 845 |
| 10 |  | | | | | | (7') SANDY SILT (ML); abundant mica, non plastic, loose, dry, reddish yellow (7.5YR 8/6), mostly silt, foliation, rock fragments of mica (fragile), INTENSELY WEATHERED ROCK | PB-8 (8-9) | | 840 |
| 15 |  | | | SC | 10 | | | PB-8 (14-15) | | 835 |
| 20 |  | | | | | | | PB-8 (19-20) | | 830 |


NOTE:

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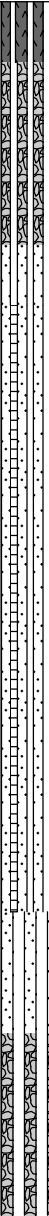
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|---|---|--|
| Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun | Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99 | Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|--|-------------|-----------------|-------------|---------------|----------------------|---|--------------|---------|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 20 |  | | | SC | 10 | | (19') CLAY with silt (CL); trace fine to coarse gravel of quartz, some silt, low plasticity, soft, dry, brown (7.5YR 5/4), foliation, SAPROLITE (20') CLAY with silt (CL); some silt, abundant mica, medium plasticity, soft, dry, brown (7.5YR 5/4), foliation, SAPROLITE (26') Becomes reddish yellow (7.5YR 8/6) | PB-8 (24-25) | | 825 |
| 25 | | | | SC | 8 | Photo 3 of photo log | | | | 815 |
| 30 | | | | | | | | | | 810 |
| 35 | | | | | | | | | | |
| 40 | | | | | | | | | | |


NOTE:

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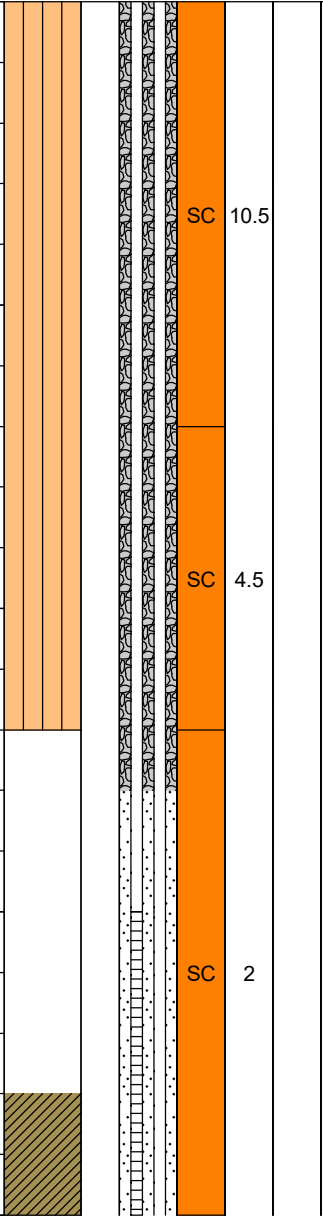

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|---|---|--|
| Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun | Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99 | Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) | | |
|------------|--|---|--|-------------|---------------|---------------------------------------|---|--------------|---|------------------------|-------|-----|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | | Photo | |
| 40 |  |  |  | SC | 12 | | (40') CLAY (CL); some fine to coarse gravel, some mica, medium plasticity, soft, dry, brown (7.5YR 5/4) | PB-8 (44-45) | | 805 | | |
| | | | | | | (42') Hard, gray (7.5YR 5/1), angular | 800 | | | | | |
| 45 | | | | | | SC | 8 | | (45') CLAY with silt (CL); some silt, abundant mica, low plasticity, soft, dry, gray (7.5YR 6/1), foliation | PB-8 (49-50) | | 800 |
| 50 | | | | | | SC | 10 | | | | | 795 |
| 55 | | | | | | Photo 6 of photo log | | | | | | |
| 60 | | | | | | Photo 7 of photo log | (58') CLAY with silt (CL); some silt, abundant mica, low plasticity, soft, dry, gray (7.5YR 6/1), fragile, mica rock fragments, INTENSELY WEATHERED ROCK (58.9') Becomes trace fine to coarse sand, moist | PB-8 (59-60) | | 790 | | |


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|---|---|--|
| Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun | Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99 | Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
|---|---|--|

| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) | | | | |
|------------|--|-------------|--|-------------|---------------|---------|----------------------|--------------|---------|------------------------|-------|-----|--|--|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | | Photo | | | |
| 60 |  | |  | SC | 10.5 | | | PB-8 (66-67) | | 785 | | | | |
| 65 | | | | | | | | | | | | 780 | | |
| 70 | | | | SC | 4.5 | | | | | | | 775 | | |
| 75 | | | | SC | 2 | | | | | | | 770 | | |
| 80 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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|---|---|--|
| Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun | Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99 | Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|-------------|-------------|-----------------|-------------|---------------|---------|---|---------------|---------|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 80 | | | | | | | | | | |
| | | | | | | | (80') No recovery | | | |
| | | | | | | | (81') Becomes dry | | | |
| 85 | | | | SC | 9 | | | | | 765 |
| | | | | | | | (87') Becomes dry, reddish yellow (7.5YR 8/6), low plasticity | PB-8 (89-90) | | 760 |
| 90 | | | | | | | | | | |
| | | | | | | | (92') Becomes moist, light brown (7.5YR 6/4), medium plasticity | | | 755 |
| 95 | | | | SC | 8 | | | | | |
| | | | | | | | (96') Becomes moist, gray (7.5YR 5/1), low plasticity | | | 750 |
| 100 | | | | | | | (99') Becomes dry | PB-8 (99-100) | | |


NOTE:

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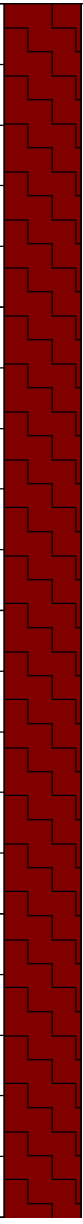
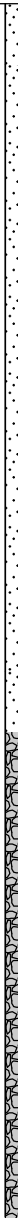

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| Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun | Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99 | Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
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| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|-------------|-------------|-----------------|-------------|---------------|---------|---|--------|--|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 100 | | | | | | | (100') No recovery | | | |
| 105 | | | | SC | 8 | | (102') Mica SCHIST, gray (7.5YR 5/1), highly fractured rock, rounded, fine to coarse grain, TOP OF ROCK | | Broken due to drilling | 745 |
| 110 | | | | | | | (108') Bigger rock fragments | | Too hard to push Shelby Tube from 108' to 110' | 740 |
| 115 | | | | SC | 8.5 | | (111.5') Mica SCHIST, thinly to thickly bedded, gray (7.5YR 5/1), fine to medium, medium hard, fresh, platy rock fragments, slightly fractured (pyrite staining on fracture surfaces), some quartz grains | | | 735 |
| 120 | | | | | | | (115') Irregular shaped (not platy) rock fragments | | | |
| | | | | | | | (117') As above, GNEISS, massive bedding, banded, foliation, hard | | | 730 |


NOTE:

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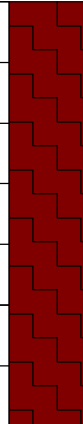
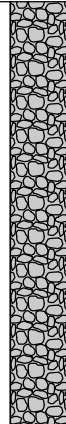
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|---|---|--|
| Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun | Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99 | Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
|---|---|--|

| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) | |
|------------|--|--|--|-------------|---------------|---------|--|--------|---|------------------------|-------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | | Photo |
| 120 |  |  |  | HQ | 1.5 | 75 | (120') No recovery (120.5') GNEISS, massive, gray (7.5YR 5/1), medium to coarse, very hard, fresh, black and white (mafic and felsic) banding, abundant mica, pyrite fillings in tight/healed fractures (122') Mica SCHIST, thinly to thickly bedded, gray (7.5YR 5/1), fine to medium, hard, fresh, platy rock fragments, abundant mica, fracture zone from 122'-124', return water is clayey which indicated clay filled fractures (124') Massive mechanical breaks along tight fractures, slight banding (127') As above, slight banding, fracture at 128' (132') As above, fracture at 133' and 134', thin white banding, ~4" quartz layer near bottom (137') (137') As above, fracture at 138.5' and 140', thin white banding, ~4" thick quartz layer near top (137') | | Sonic drilling ends at 120' (4/13/2017), HQ coring begins at 120' (4/20/2017) | 725 | |
| | | | | HQ | 5 | 87 | | | | Photo 15 of photo log | 720 |
| 125 | | | | | HQ | 5 | | | | 90 | 715 |
| 130 | | | | | HQ | 5 | | | | 100 | 710 |
| 135 | | | | | HQ | 5 | | | | 100 | |
| 140 | | | | | HQ | 5 | | | | 100 | |


NOTE:

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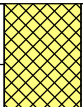


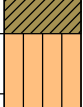
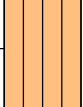
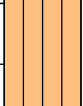
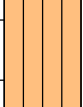
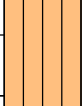
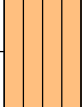
| | | |
|---|---|--|
| Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun | Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99 | Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
|---|---|--|

| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|----------------------------|--|-------------|--|-------------|---------------|---------|--|--------|---------|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 140 |  | |  | HQ | 5 | 100 | (137') As above, fracture at 138.5' and 140', thin white banding, ~4" thick quartz layer near top (137')(continued) (142') As above, tight fractures at 143.5' and 144', thin white banding | | | 705 |
| 145 | | | | | | | | | | |
| (147.0') Boring Terminated | | | | | | | | | | |


NOTE:

| | | |
|--|--|--|
|  <p>engineers scientists innovators</p> | Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116 | BORING LOG Boring No. PB-9 Page: 1 of 4 |
|--|--|--|

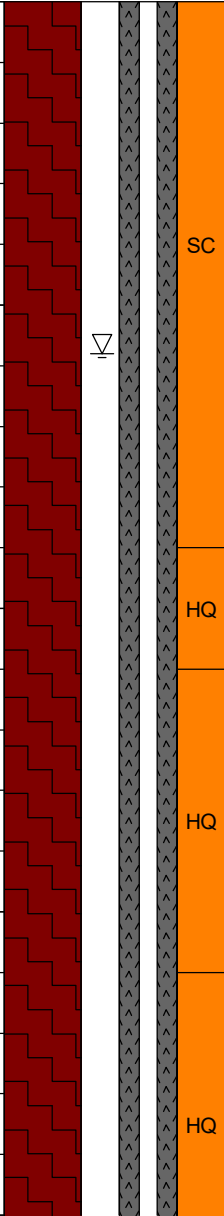

| | | |
|---|--|--|
| Drilling Start Date: 4/13/2017 Drilling End Date: 4/19/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun | Boring Depth (ft): 75 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 820.49 Location (Y, X): 1241490.28, 2026504.40 | Well Depth (ft): (60-70) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
|---|--|--|

| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|---|-------------|-----------------|-------------|---------------|---------|---|--------------|---------|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 0 |  | | | | | | (0') Topsoil; FILL | | | 820 |
| 3 |  | | | | | | (3') CLAY with silt (CL); some silt, low plasticity, soft, moist, brown (7.5YR 5/4), SAPROLITE | PB-9 (4-5) | | 815 |
| 5 |  | | | SC | 9 | | Photo 1 of photo log | | | |
| 7 |  | | | | | | (7') SILT with fine sand (ML); some fine sand, loose, moist, light brown (7.5YR 6/3), fragile mica rock fragments, INTENSELY WEATHERED ROCK | PB-9 (7-8) | | |
| 9 |  | | | | | | (9') SILT with clay (ML); some clay, some rock fragments of mica (small to large, hard, irregular to platy), low plasticity, soft, moist, light brown (7.5YR 6/3) | | | 810 |
| 10 |  | | | SC | 10 | | Photo 2 of photo log | | | |
| 15 |  | | | | | | (17') Becomes gray (7.5YR 6/1), platy rock fragments | PB-9 (17-18) | | 805 |
| 18 |  | | | | | | (18') Becomes gray (7.5YR 6/1) | | | |
| 20 |  | | | SC | 1 | | | | | |


NOTE:

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|  <p>engineers scientists innovators</p> | Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116 | BORING LOG Boring No. PB-9 Page: 2 of 4 |
|--|--|--|

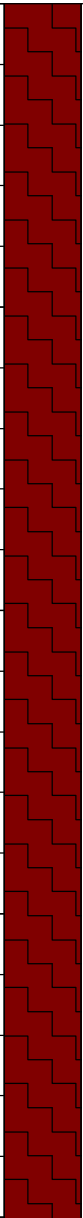


| | | |
|---|--|--|
| Drilling Start Date: 4/13/2017 Drilling End Date: 4/19/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun | Boring Depth (ft): 75 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 820.49 Location (Y, X): 1241490.28, 2026504.40 | Well Depth (ft): (60-70) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
|---|--|--|

| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) | |
|------------|--|-------------|--|-------------|---------------|---------|--|---|--|--|-------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | | Photo |
| 20 |  | ▽ |  | SC | 8 | | Photo 4 of photo log | | | 800 | |
| 25 | | | | HQ | 2 | | | | | (19') MICA SCHIST, thinly to thickly bedded, gray (7.5YR 5/1), fine to medium, hard, fresh, platy rock fragments, abundant mica grains and pyrite, few bands of quartz layer, TOP OF ROCK(continued) | |
| 30 | | | | HQ | 2 | | (29') MICA SCHIST, thinly to thickly bedded, gray (7.5YR 5/1), fine to coarse, hard, fresh, tight fractures along bedding plane, abundant mica and pyrite, some quartz | | Sonic drilling ends at 29' (4/13/2017), HQ rock coring begins at 29' (4/18/2017) | | 790 |
| 35 | | | | HQ | 5 | 100 | | (31') As above, slightly fractured, fresh, potential water bearing fractures at 33' and 35' | Fast drilling (1 ft/min) | | 785 |
| 40 | | | | HQ | 5 | 70 | | (36') As above, fresh, mechanical break along tight fractures on joints | Fast drilling (1 ft/min) | | |


NOTE:

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|  <p>engineers scientists innovators</p> | Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116 | BORING LOG Boring No. PB-9 Page: 3 of 4 |
|--|--|--|

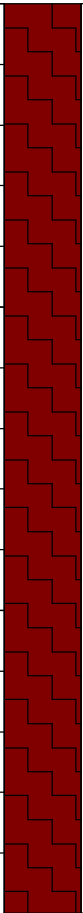
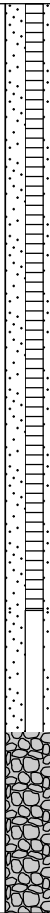

| | | |
|---|--|--|
| Drilling Start Date: 4/13/2017 Drilling End Date: 4/19/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun | Boring Depth (ft): 75 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 820.49 Location (Y, X): 1241490.28, 2026504.40 | Well Depth (ft): (60-70) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
|---|--|--|

| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) |
|------------|--|--|--|--|---------------|---|--|--------|--------------------------|------------------------|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | |
| 40 |  |  |  | HQ | 5 | 100 | (36') As above, fresh, mechanical break along tight fractures on joints (<i>continued</i>) | | Fast drilling (1 ft/min) | 780 |
| | | | | | | (41') As above, fresh, mechanical break along tight fractures or joints | | 775 | | |
| 45 | | | | HQ | 5 | 100 | (46') As above, fresh, mechanical break along tight fractures or joints | | Fast drilling (1 ft/min) | 770 |
| | | | | | | (48.6') Thick quartz layer from 48.6'-49', white | | 765 | | |
| 50 | | | | HQ | 5 | 100 | (51') As above, fresh mechanical break along tight fractures or joints | | 0.3 ft/min drilling | 760 |
| 55 | HQ | 5 | 93 | (56') As above, fresh, fractures at 57.5' and 59.1' (slight clay and pyrite staining, narrow, parallel to bedding plane, planar, not healed), mechanical breaks along bedding planes | | 755 | | | | |
| 60 | | | | | | | | | | |

NOTE:

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|  <p>engineers scientists innovators</p> | Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116 | BORING LOG Boring No. PB-9 Page: 4 of 4 |
|--|--|--|

| | | |
|---|--|--|
| Drilling Start Date: 4/13/2017 Drilling End Date: 4/19/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun | Boring Depth (ft): 75 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 820.49 Location (Y, X): 1241490.28, 2026504.40 | Well Depth (ft): (60-70) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack |
|---|--|--|

| DEPTH (ft) | GRAPHIC LOG | WATER LEVEL | WELL COMPLETION | COLLECT | | | MATERIAL DESCRIPTION | SAMPLE | REMARKS | ELEVATION (ft NAVD 88) | | |
|---------------------------|--|--|--|-------------|---------------|---------|---|--------|-------------------------|------------------------|-------|-----|
| | | | | Sample Type | Recovery (ft) | RQD (%) | | | | | Photo | |
| 60 |  |  |  | HQ | 4 | 40 | (61') As above, fresh, moderately fractured, slight pyrite and clay staining, clay fillings might be washed away by drilling water, fractures have irregular surface (planar to undulating), rock fragments don't fit well and only 4' of rock recovered which could imply soft fillings (clay) existed between rock fragments and washed out (66') Same as above, fresh, intensely fractured, soft near fractures (67.5') Same as above, fresh, mechanical break along bedding planes and tight fractures (70') Same as above, fresh, mechanical break along bedding planes and tight fractures | | Drilling water is muddy | 760 | | |
| 65 | | | | | | | | | | | 755 | |
| 70 | | | | | | | | | | | | 750 |
| 75 | | | | | | | | | | | | |
| (75.0') Boring Terminated | | | | | | | | | | | | |

NOTE:

RECORD OF BOREHOLE WGWC8/APC-1

SHEET 1 of 2

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 57.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/29/15
 DATE COMPLETED: 10/29/15

NORTHING: 1242929.40
 EASTING: 2029644.58
 GS ELEVATION: 777.70
 TOC ELEVATION: 780.08

DEPTH W.L.: 36' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 11/02/2015
 TIME W.L.: 12:00

| DEPTH (ft) | ELEVATION (ft) | SOIL PROFILE | | | SAMPLES | | | MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES | WELL CONSTRUCTION DETAILS |
|------------|----------------|---|------|-------------|---------------------|------------|------|---|--|
| | | DESCRIPTION | USCS | GRAPHIC LOG | ELEV. DEPTH (ft) | SAMPLE NO. | TYPE | | |
| 0 | | 0.00 - 2.00 SAPROLITE; overburden, dry to moist, brown to reddish orange | ML | | 775.70 | | | | <p>WELL CASING Interval: -2.5'-47' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 47'-57' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 45'-57' Type: #1 Sand/Prepacked Filter</p> <p>FILTER PACK SEAL Interval: 41.5'-45' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-41.5' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4"x4"x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: Hydrovac/4-inch Sonic Rock Drill: 4-inch Sonic</p> |
| 775 | | 2.00 - 4.00 CLAYEY SILT; dry to moist, brown overburden (saprolite) | | | 2.00 | | | | |
| 5 | | 4.00 - 8.00 red orange overburden (saprolite) | ML | | 773.70 | | | | |
| 770 | | | | | 4.00 | | | | |
| 10 | | 8.00 - 24.00 dry to moist, brown to reddish orange | | | 769.70 | | | | |
| 765 | | | | | 8.00 | | | | |
| 15 | | | | | 753.70 | | | | |
| 760 | | | | | 753.70 | | | | |
| 20 | | | | | 753.70 | | | | |
| 755 | | | | | 753.70 | | | | |
| 25 | | 24.00 - 28.00 GRAVELLY CLAY; wet, yellow-orange, trace black and white stringers, manganese oxide and weathered feldspar, lean clay | GC | | 24.00 | | | | |
| 750 | | | | | 749.70 | | | | |
| 30 | | 28.00 - 29.00 CLAYEY SAND/TRANSITIONALLY WEATHERED ROCK; wet, brown, clayey silt, some fine to coarse sand, some fine gravel size rock fragments | TWR | | 28.00 | | | | |
| 745 | | 29.00 - 57.00 Mylonitic QUARTZITE ROCK; white to light brown, rock is less coherent and likely fractured around 54-56' interval | | | 748.70 | | | | |
| 740 | | | BR | | 29.00 | | | | |
| 45 | | | | | | | | | |

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT 9/29/17

Log continued on next page

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Kristen Jurinko
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC8/APC-1

SHEET 2 of 2

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 57.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/29/15
 DATE COMPLETED: 10/29/15

NORTHING: 1242929.40
 EASTING: 2029644.58
 GS ELEVATION: 777.70
 TOC ELEVATION: 780.08

DEPTH W.L.: 36' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 11/02/2015
 TIME W.L.: 12:00

| DEPTH (ft) | ELEVATION (ft) | SOIL PROFILE | | | SAMPLES | | | MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES | WELL CONSTRUCTION DETAILS |
|------------|----------------|---|------|-------------|---------------------|------------|------|---|---|
| | | DESCRIPTION | USCS | GRAPHIC LOG | ELEV. DEPTH (ft) | SAMPLE NO. | TYPE | | |
| 45 | | 29.00 - 57.00 Mylonitic QUARTZITE ROCK; white to light brown, rock is less coherent and likely fractured around 54-56' interval <i>(Continued)</i> | | | | | | | <p>WELL CASING Interval: -2.5'-47' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 47'-57' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 45'-57' Type: #1 Sand/Prepacked Filter</p> <p>FILTER PACK SEAL Interval: 41.5'-45' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-41.5' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: Hydrovac/4-inch Sonic Rock Drill: 4-inch Sonic</p> |
| 730 | | | BR | | | | | | |
| 50 | | | | | | | | | |
| 725 | | | | | | | | | |
| 55 | | | | | | | | | |
| 720 | | Boring completed at 57.00 ft | | | 720.70 | | | | |
| 60 | | | | | | | | | |
| 715 | | | | | | | | | |
| 65 | | | | | | | | | |
| 710 | | | | | | | | | |
| 70 | | | | | | | | | |
| 705 | | | | | | | | | |
| 75 | | | | | | | | | |
| 700 | | | | | | | | | |
| 80 | | | | | | | | | |
| 695 | | | | | | | | | |
| 85 | | | | | | | | | |
| 690 | | | | | | | | | |
| 90 | | | | | | | | | |

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT | 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Kristen Jurinko
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17





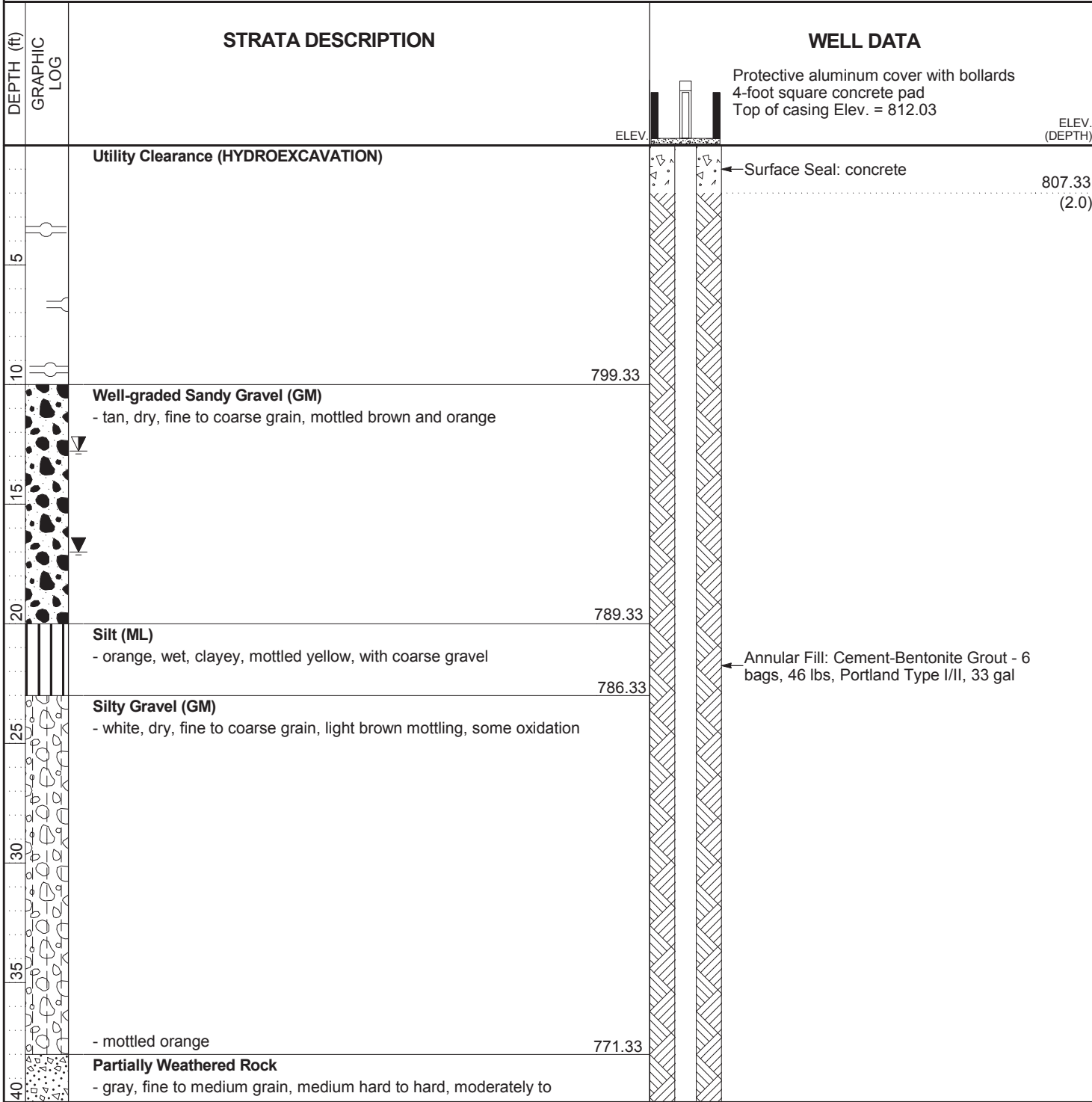
LOG OF TEST BORING AND WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
 EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Ash Pond Piezometers
 LOCATION Plant Wansley

DATE STARTED 12/4/2014 COMPLETED 12/4/2014 SURF. ELEV. 809.33 COORDINATES: N:1242801.12 E:209115.75
 CONTRACTOR CASCADE EQUIPMENT SONIC METHOD Rotosonic
 DRILLED BY T.Ardito LOGGED BY S. Baxter CHECKED BY L. Millet ANGLE _____ BEARING _____
 BORING DEPTH 58 ft. GROUND WATER DEPTH: DURING _____ COMP. 17 ft. DELAYED 12.78 ft. after 24 hrs.
 NOTES _____

2012 GEOTECH LOG WITH WELL - ESEE2012DATABASE.GDT - 2/26/15 15:57 - S:\WORKGROUPS\APC GENERAL SERVICE COMPLEX\CIVIL TECH SUPPORT\DRILLING\PROJECTS\WANSLEY ASH POND PIEZOMETER\PLANT_WANSLEY_ASH_POND_1 (2).GPJ



(Continued Next Page)

2012 GEOTECH LOG WITH WELL - ESEE2012DATABASE.GDT - 2/26/15 15:57 - S:\WORKGROUPS\APC GENERAL SERVICE COMPLEX\CIVIL TECH SUPPORT\DRILLING\PROJECTS\WANSLEY ASH POND PIEZING\PLANT_WANSLEY_ASH_POND_1 (2).GPJ



LOG OF TEST BORING AND WELL INSTALLATION

WGWC-9
PAGE 2 OF 2
ECS38198

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Ash Pond Piezometers

LOCATION Plant Wansley

| DEPTH (ft) | GRAPHIC LOG | STRATA DESCRIPTION | ELEV. (CONTINUED) | WELL DATA | ELEV. (DEPTH) |
|------------|-------------|---|-------------------|---|------------------|
| 45 | | highly weathered, with oxidation Partially Weathered Rock(Cont) | | Protective aluminum cover with bollards 4-foot square concrete pad Top of casing Elev. = 812.03 | |
| | | | 767.83 (41.5) | Annular Seal: bentonite chips - 1 bag, 50 lbs, Baroid 3/8" chips | 765.23 (44.1) |
| | | | | Filter: silica filter sand - 4.5 bags, 50 lbs, #1A filter media | 760.93 (48.4) |
| | | | | Well: 2" OD PVC (SCH 40) | |
| | | | | Well: 2" OD PVC (SCH 40) Screen: 10 ft. pre-pack | |
| | | | 751.33 | | 750.93 |
| | | Bottom of borehole at 58.0 feet. | | Sump: 0.40 ft. | |

RECORD OF BOREHOLE WGWC10/APC-3D

SHEET 1 of 4

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 146.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/27/15
 DATE COMPLETED: 10/27/15

NORTHING: 1240971.96
 EASTING: 2026725.61
 GS ELEVATION: 809.61
 TOC ELEVATION: 812.38

DEPTH W.L.: 7.73' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 10/27/15
 TIME W.L.: 14:41

| DEPTH (ft) | ELEVATION (ft) | SOIL PROFILE | | | | SAMPLES | | | MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES | WELL CONSTRUCTION DETAILS |
|------------|----------------|--|------|-------------|---------------------|------------|------|-----|---|--|
| | | DESCRIPTION | USCS | GRAPHIC LOG | ELEV. DEPTH (ft) | SAMPLE NO. | TYPE | REC | | |
| 0 | | 0.00 - 11.00 SILT; dry to moist, yellow to orange-red, some clay, some very fine sand, trace muscovite | | | | | | | | WELL CASING Interval: -2.5'-136' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 136'-146' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 134'-136' Type: #1 Sand Prepacked Filter FILTER PACK SEAL Interval: 131.5'-134' Type: 3/8" Bentonite Pellets ANNULUS SEAL Interval: 0'-131.5' Type: Portland Type 1 WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic |
| 5 | 805 | 6.00: Shelby Tube Collected: 6'-8' | ML | | | | | | | |
| 10 | 800 | 11.00 - 23.00 CLAYEY SILT; dry to moist, orange to red, 5-10% muscovite, trace black MnO, trace garnet, trace quartz, saprolite | | | 798.61 11.00 | | | | | |
| 15 | 795 | | ML | | | | | | | |
| 20 | 790 | | | | 786.61 23.00 | | | | | |
| 25 | 785 | 23.00 - 37.00 SILT; moist, yellow brown, some clay, come very fine sand, layers of white CLAYEY SILT, 3" thick lense of weathered pegmatite material at 25', 39', and 42' | | | | | | | | |
| 30 | 780 | | ML | | | | | | | |
| 35 | 775 | 36.00: Shelby Tube Collected: 36'-38' | | | 772.61 | | | | | |
| 40 | 770 | 37.00 - 40.00 CLAYEY SILT; some weathered pegmatite material, white/pink weathered potassium feldspar and plagioclase | ML | | 37.00 769.61 | | | | | |
| 45 | 765 | 40.00 - 47.00 SILT; moist, yellow brown, some clay, come very fine sand, layers of white CLAYEY SILT, 3" thick lense of weathered pegmatitic material at 42' | ML | | 40.00 | | | | | |

Log continued on next page

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT | 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Shannon George, P.G.
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC10/APC-3D

SHEET 2 of 4

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 146.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/27/15
 DATE COMPLETED: 10/27/15

NORTHING: 1240971.96
 EASTING: 2026725.61
 GS ELEVATION: 809.61
 TOC ELEVATION: 812.38

DEPTH W.L.: 7.73' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 10/27/15
 TIME W.L.: 14:41

| DEPTH (ft) | ELEVATION (ft) | SOIL PROFILE | | | | SAMPLES | | | MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES | WELL CONSTRUCTION DETAILS |
|------------|----------------|---|------|-------------|---------------------|------------|------|-----------------|---|--|
| | | DESCRIPTION | USCS | GRAPHIC LOG | ELEV. DEPTH (ft) | SAMPLE NO. | TYPE | REC | | |
| 45 | | | ML | | 762.61 | | | | | <p>WELL CASING Interval: -2.5'-136' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 136'-146' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 134'-136' Type: #1 Sand Prepacked Filter</p> <p>FILTER PACK SEAL Interval: 131.5'-134' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-131.5' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic</p> |
| | 760 | 47.00 - 58.00 SAPROLITE; moist, grayish brown with some orange mineral oxidation, weathered muscovite schist, predominately weathered feldspars, 10-15% muscovite, <10% quartz | | | 47.00 | | | | | |
| 50 | | | ML | | | | | | | |
| | 755 | | | | 751.61 | | | | | |
| 55 | | 58.00 - 58.10 1" black layer with gravel size quarts grains, silt sized black particles | | | 58.10 | | | | | |
| | 750 | 58.10 - 88.00 moist, grayish brown with some orange mineral oxidation, weathered muscovite schist, predominately weathered feldspars | | | | | | | | |
| 60 | | | | | | | | | | |
| | 745 | | | | | | | Portland Type 1 | | |
| 65 | | | | | | | | | | |
| | 740 | | | | | | | | | |
| 70 | | | | | | | | | | |
| | 735 | | | | | | | | | |
| 75 | | | | | | | | | | |
| | 730 | | | | | | | | | |
| 80 | | | | | | | | | | |
| | 725 | | | | | | | | | |
| 85 | | | | | | | | | | |
| | 720 | 88.00 - 92.00 SANDY SILT; moist to wet, orange brown, sandy silt, very fine to fine sand, trace fine gravel, micaceous | ML | | 721.61 88.00 | | | | | |

Log continued on next page

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Shannon George, P.G.
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC10/APC-3D

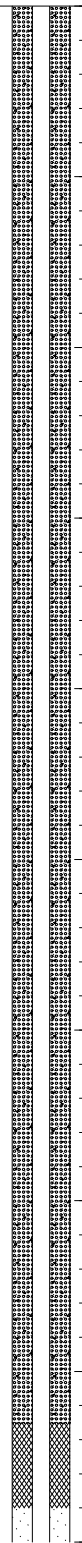
SHEET 3 of 4

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 146.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/27/15
 DATE COMPLETED: 10/27/15

NORTHING: 1240971.96
 EASTING: 2026725.61
 GS ELEVATION: 809.61
 TOC ELEVATION: 812.38

DEPTH W.L.: 7.73' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 10/27/15
 TIME W.L.: 14:41

| DEPTH (ft) | ELEVATION (ft) | SOIL PROFILE | | | | SAMPLES | | | MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES | WELL CONSTRUCTION DETAILS |
|------------|----------------|---|------|-------------|--------------------------|------------|------|-----|--|--|
| | | DESCRIPTION | USCS | GRAPHIC LOG | ELEV. | SAMPLE NO. | TYPE | REC | | |
| 90 | | 88.00 - 92.00 SANDY SILT; moist to wet, orange brown, sandy silt, very fine to fine sand, trace fine gravel, micaceous <i>(Continued)</i> | ML | | 717.61 | | | |  <p style="text-align: center; font-size: small;">3/8" Bentonite Pellets</p> | <p>WELL CASING Interval: -2.5'-136' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 136'-146' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 134'-136' Type: #1 Sand Prepacked Filter</p> <p>FILTER PACK SEAL Interval: 131.5'-134' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-131.5' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic</p> |
| | 715 | 92.00 - 96.00 SAPROLITE; moist, grayish brown with some orange mineral oxidation, weathered muscovite schist, predominantly feldspar, trace quartz, trace biotite, trace garnet | ML | | 92.00 | | | | | |
| | 95 | 96.00 - 97.00 SANDY SILT; moist to wet, orange brown, sandy silt, very fine to fine sand, trace fine gravel, micaceous | ML | | 713.61 | | | | | |
| | 710 | 97.00 - 106.00 SAPROLITE; moist, grayish brown with some orange mineral oxidation, weathered muscovite schist, predominantly feldspar, trace quartz, trace biotite, trace garnet | ML | | 96.00 712.61 97.00 | | | | | |
| | 100 | 106.00 - 116.00 NO RECOVERY | | | 703.61 106.00 | | | | | |
| | 705 | | ML | | | | | | | |
| | 105 | | | | 693.61 116.00 | | | | | |
| | 700 | 116.00 - 119.00 SAPROLITE ROCK; gametiferous, muscovite meta quartzite rock fragments up to 2.5" interbedded with weathered muscovite schist | TWR | | 690.61 119.00 | | | | | |
| | 110 | 119.00 - 139.00 moist to wet, silty clay and silt, weathered garnet, muscovite, plagioclase, schist, trace quartz | | | | | | | | |
| | 695 | | | | | | | | | |
| | 115 | | | | | | | | | |
| | 690 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 685 | | | | | | | | | |
| | 125 | | | | | | | | | |
| | 680 | | | | | | | | | |
| | 130 | | | | | | | | | |
| | 675 | | | | | | | | | |
| | | 135 | | | | | | | | |

Log continued on next page

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT | 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Shannon George, P.G.
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC13/APC-5D

SHEET 1 of 3

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 96.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 11/2/15
 DATE COMPLETED: 11/4/15

NORTHING: 1240610.93
 EASTING: 2024585.91
 GS ELEVATION: 807.32
 TOC ELEVATION: 809.78

DEPTH W.L.: 20.25' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 11/4/15
 TIME W.L.: 10:08

| DEPTH (ft) | ELEVATION (ft) | SOIL PROFILE | | | SAMPLES | | | MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES | WELL CONSTRUCTION DETAILS |
|------------|----------------|---|------|-------------|---------------------|------------|------|---|--|
| | | DESCRIPTION | USCS | GRAPHIC LOG | ELEV. DEPTH (ft) | SAMPLE NO. | TYPE | | |
| 0 | | 0.00 - 2.00 SILT; moist, orange overburden | ML | | 805.32 | | | | <p>WELL CASING Interval: -2.5'-73' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 73'-93' 3" Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 69.5'-96' Type: #1 Sand/ Prepack Filter</p> <p>FILTER PACK SEAL Interval: 66.5'-69.5' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-66.5' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic</p> |
| 805 | | 2.00 - 7.00 CLAYEY SILT; moist, brown, micaceous, trace garnets up to 1cm, materials are loose/soft | ML | | 2.00 | | | | |
| 5 | | | | | | | | | |
| 800 | | 7.00 - 22.00 SILTY SAND; moist to wet (18 - 26 feet), orange, brown and white (saprolite) | SM | | 800.32 | | | | |
| 10 | | | | | | | | | |
| 795 | | | | | | | | | |
| 15 | | | | | | | | | |
| 790 | | 16.00: Shelby Tube Collected: 16'-17' | | | | | | | |
| 20 | | | | | | | | | |
| 785 | | 22.00 - 26.00 SAPROLITE; weathered pegmatite | ML | | 785.32 | | | | |
| 25 | | | | | | | | | |
| 780 | | 26.00 - 28.00 trace quartz, wet | | | 781.32 | | | | |
| 30 | | | | | 26.00 | | | | |
| 775 | | 28.00 - 35.00 SILTY CLAY; moist, very light brown. metamorphic foliation present. trace gravel size quartzite rock fragments (saprolite) | CL | | 779.32 | | | | |
| 35 | | | | | 28.00 | | | | |
| 770 | | 35.00 - 36.00 SAPROLITE-ROCK; weathered micaceous meta-quartzite | TWR | | 772.32 | | | | |
| 40 | | 36.00 - 46.00 ROCK; light brown quartzite with light orange oxidation, micaceous meta quartzite | BR | | 35.00 | | | | |
| 45 | | | | | 771.32 | | | | |
| | | | | | 36.00 | | | | |

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT | 9/29/17

Log continued on next page

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Shannon George, P.G.
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC13/APC-5D

SHEET 2 of 3

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 96.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 11/2/15
 DATE COMPLETED: 11/4/15

NORTHING: 1240610.93
 EASTING: 2024585.91
 GS ELEVATION: 807.32
 TOC ELEVATION: 809.78

DEPTH W.L.: 20.25' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 11/4/15
 TIME W.L.: 10:08

| DEPTH (ft) | ELEVATION (ft) | SOIL PROFILE | | | | SAMPLES | | | MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES | WELL CONSTRUCTION DETAILS |
|------------|----------------|--|------|-------------|---------------------|------------|------|-----|---|--|
| | | DESCRIPTION | USCS | GRAPHIC LOG | ELEV. DEPTH (ft) | SAMPLE NO. | TYPE | REC | | |
| 45 | | 46.00 - 56.00 more competent rock | BR | | 761.32 | | | | | WELL CASING Interval: -2.5'-73' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 73'-93' 3" Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 69.5'-96' Type: #1 Sand/ Prepack Filter FILTER PACK SEAL Interval: 66.5'-69.5' Type: 3/8" Bentonite Pellets ANNULUS SEAL Interval: 0'-66.5' Type: Portland Type 1 WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic |
| 760 | | | | 46.00 | | | | | | |
| 50 | | 56.00 - 87.00 light brown quartzite with light orange oxidation, micaceous meta quartzite | BR | | 751.32 | | | | 3/8" Bentonite - Pellets | |
| 755 | | | | 56.00 | | | | | | |
| 55 | | | | 720.32 | | | | | | |
| 750 | | 87.00 - 96.00 grey and pink quartzite | BR | | 87.00 | | | | 0.010" Slot Screen #1 Sand - | |
| 60 | | | | 87.00 | | | | | | |
| 745 | | | | | | | | | | |
| 65 | | | | | | | | | | |
| 740 | | | | | | | | | | |
| 70 | | | | | | | | | | |
| 735 | | | | | | | | | | |
| 75 | | | | | | | | | | |
| 730 | | | | | | | | | | |
| 80 | | | | | | | | | | |
| 725 | | | | | | | | | | |
| 85 | | | | | | | | | | |
| 720 | | | | | | | | | | |
| 90 | | | | | | | | | | |

Log continued on next page

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Shannon George, P.G.
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC13/APC-5D

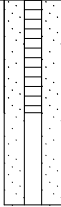
SHEET 3 of 3

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 96.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 11/2/15
 DATE COMPLETED: 11/4/15

NORTHING: 1240610.93
 EASTING: 2024585.91
 GS ELEVATION: 807.32
 TOC ELEVATION: 809.78

DEPTH W.L.: 20.25' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 11/4/15
 TIME W.L.: 10:08

| DEPTH (ft) | ELEVATION (ft) | SOIL PROFILE | | | SAMPLES | | | MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES | WELL CONSTRUCTION DETAILS |
|------------|----------------|---|------|----------------|---------------------|------------|------|---|--|
| | | DESCRIPTION | USCS | GRAPHIC LOG | ELEV. DEPTH (ft) | SAMPLE NO. | TYPE | | |
| 90 | | 87.00 - 96.00 grey and pink quartzite <i>(Continued)</i> | | [Wavy Pattern] | 711.32 | | |  | <p>WELL CASING Interval: -2.5'-73' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 73'-93' 3" Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 69.5'-96' Type: #1 Sand/ Prepack Filter</p> <p>FILTER PACK SEAL Interval: 66.5'-69.5' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-66.5' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic</p> |
| 715 | | | | | | | | | |
| 95 | | | | | | | | | |
| 710 | | Boring completed at 96.00 ft | | | | | | | |
| 100 | | | | | | | | | |
| 705 | | | | | | | | | |
| 105 | | | | | | | | | |
| 700 | | | | | | | | | |
| 110 | | | | | | | | | |
| 695 | | | | | | | | | |
| 115 | | | | | | | | | |
| 690 | | | | | | | | | |
| 120 | | | | | | | | | |
| 685 | | | | | | | | | |
| 125 | | | | | | | | | |
| 680 | | | | | | | | | |
| 130 | | | | | | | | | |
| 675 | | | | | | | | | |
| 135 | | | | | | | | | |

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT | 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Shannon George, P.G.
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC15/APC-6D


SHEET 2 of 2

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 53.50 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 11/11/15
 DATE COMPLETED: 11/11/15

NORTHING: 1240483.16
 EASTING: 2023912.92
 GS ELEVATION: 802.03
 TOC ELEVATION: 804.69

DEPTH W.L.: 5.85' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 11/13/15
 TIME W.L.:

| DEPTH (ft) | ELEVATION (ft) | SOIL PROFILE | | | SAMPLES | | | MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES | WELL CONSTRUCTION DETAILS |
|------------|----------------|--|------|---|---------------------|------------|------|---|--|
| | | DESCRIPTION | USCS | GRAPHIC LOG | ELEV. DEPTH (ft) | SAMPLE NO. | TYPE | | |
| 45 | | 43.00 - 53.50 mafic gneiss, fine to coarse grey gravel, small weathered cobbles, bedrock (<i>Continued</i>) | |  | | | | #1 Sand — 0.010" slot screen | <p>WELL CASING Interval: -2.5'-43' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 43.5'-53.5' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 41'-53.5' Type: #1 Sand/Prepack filter</p> <p>FILTER PACK SEAL Interval: 38.8'-41' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-38.8' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic</p> |
| 755 | | | | | 748.53 | | | | |
| 50 | | Boring completed at 53.50 ft | | | | | | | |
| 750 | | | | | | | | | |
| 55 | | | | | | | | | |
| 745 | | | | | | | | | |
| 60 | | | | | | | | | |
| 740 | | | | | | | | | |
| 65 | | | | | | | | | |
| 735 | | | | | | | | | |
| 70 | | | | | | | | | |
| 730 | | | | | | | | | |
| 75 | | | | | | | | | |
| 725 | | | | | | | | | |
| 80 | | | | | | | | | |
| 720 | | | | | | | | | |
| 85 | | | | | | | | | |
| 715 | | | | | | | | | |
| 90 | | | | | | | | | |

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: David Wilcox

GA INSPECTOR: Kristen Jurinko
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC19/APC-2

SHEET 1 of 3

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 92.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/28/15
 DATE COMPLETED: 10/28/15

NORTHING: 1241851.51
 EASTING: 2028949.19
 GS ELEVATION: 780.60
 TOC ELEVATION: 783.42

DEPTH W.L.: 20.5' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 10/28/15
 TIME W.L.: 13:10

| DEPTH (ft) | ELEVATION (ft) | SOIL PROFILE | | | SAMPLES | | | MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES | WELL CONSTRUCTION DETAILS |
|------------|----------------|---|------|-------------|---------------------|------------|--------------------|---|---------------------------------|
| | | DESCRIPTION | USCS | GRAPHIC LOG | ELEV. DEPTH (ft) | SAMPLE NO. | TYPE | | |
| 0 | 780 | 0.00 - 27.00 SILTY SAND; reddish orange overburden | SM | | | | | WELL CASING Interval: -2.5'-82' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 82'-92' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 79.1'-92' Type: #1 Sand/Prepacked Filter FILTER PACK SEAL Interval: 77'-79.1' Type: 3/8" Bentonite Pellets ANNULUS SEAL Interval: 0'-77' Type: Portland Type 1 WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum DRILLING METHODS Soil Drill: Hydrovac/4-inch Sonic Rock Drill: 4-inch Sonic | |
| 5 | 775 | | | | | | | | |
| 10 | 770 | | | | | | | | |
| 15 | 765 | | | | | | | | |
| 20 | 760 | 22.00: Shelby Tube Collected: 22'-24' | | | 753.60 | | | | |
| 25 | 755 | | | | | | | | |
| 30 | 750 | 27.00 - 30.00 SILT; dry to moist, light brown, brown, orange brown and grey. Trace white feldspar and black MnO laminations, trace fine gravel, quartz-rich lense from 30-33' (35% quartz). some weathered schist (saprolite) | ML | | 27.00 | | | | |
| | | 30.00 - 33.00 some severely weathered gneiss | | | 750.60 | 30.00 | | | |
| | | 33.00 - 60.00 dry to moist, light brown, brown, orange brown and grey. Trace white feldspar and black MnO laminations, trace fine gravel, quartz-rich lense from 30-33' (35% quartz). some weathered schist (saprolite) | | | 747.60 | 33.00 | | | |
| 35 | 745 | | | | | | Portland Type 1 | | |
| 40 | 740 | | | | | | | | |
| 45 | | Log continued on next page | | | | | | | |

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT | 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Kristen Jurinko
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC19/APC-2

SHEET 2 of 3

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 92.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/28/15
 DATE COMPLETED: 10/28/15

NORTHING: 1241851.51
 EASTING: 2028949.19
 GS ELEVATION: 780.60
 TOC ELEVATION: 783.42

DEPTH W.L.: 20.5' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 10/28/15
 TIME W.L.: 13:10

| DEPTH (ft) | ELEVATION (ft) | SOIL PROFILE | | | SAMPLES | | | MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES | WELL CONSTRUCTION DETAILS |
|------------|----------------|---|------|-------------|---------------------|------------|-----------------|---|---|
| | | DESCRIPTION | USCS | GRAPHIC LOG | ELEV. DEPTH (ft) | SAMPLE NO. | TYPE | | |
| 45 | 735 | 33.00 - 60.00 dry to moist, light brown, brown, orange brown and grey. Trace white feldspar and black MnO laminations, trace fine gravel, quartz-rich lense from 30-33' (35% quartz), some weathered schist (saprolite) <i>(Continued)</i> | | | | | | | <p>WELL CASING Interval: -2.5'-82' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 82'-92' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 79.1'-92' Type: #1 Sand/Prepacked Filter</p> <p>FILTER PACK SEAL Interval: 77'-79.1' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-77' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: Hydrovac/4-inch Sonic Rock Drill: 4-inch Sonic</p> |
| 50 | 730 | | | | | | | | |
| 55 | 725 | | | | | | | | |
| 60 | 720 | 60.00 - 63.00 stiffer with trace gravel | | | | | 720.60 60.00 | | |
| 65 | 715 | 63.00 - 70.00 TRANSITIONALLY WEATHERED ROCK; brown micaceous schist and garnetiferous greywacke, dry | PWR | ▲ ▲ ▲ ▲ ▲ | | | 717.60 63.00 | | |
| 70 | 710 | 70.00 - 87.00 ROCK; garnetiferous greywacke with white plagioclase laminations | | ▨ ▨ ▨ ▨ ▨ | | | 710.60 70.00 | | |
| 75 | 705 | | BR | ▨ ▨ ▨ ▨ ▨ | | | | 3/8" Bentonite Pellets | |
| 80 | 700 | | BR | ▨ ▨ ▨ ▨ ▨ | | | | #1 Sand | |
| 85 | 695 | | BR | ▨ ▨ ▨ ▨ ▨ | | | 693.60 | 0.010" Slot Screen | |
| 90 | | 87.00 - 92.00 ROCK; wet, dark grey micaceous schist | BR | ▨ ▨ ▨ ▨ ▨ | | | 87.00 | | |

Log continued on next page

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Kristen Jurinko
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC19/APC-2



SHEET 3 of 3

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 92.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/28/15
 DATE COMPLETED: 10/28/15

NORTHING: 1241851.51
 EASTING: 2028949.19
 GS ELEVATION: 780.60
 TOC ELEVATION: 783.42

DEPTH W.L.: 20.5' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 10/28/15
 TIME W.L.: 13:10

| DEPTH (ft) | ELEVATION (ft) | SOIL PROFILE | | | | SAMPLES | | | MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES | WELL CONSTRUCTION DETAILS |
|------------|----------------|---|------|---|---------------------|------------|------|-----|---|--|
| | | DESCRIPTION | USCS | GRAPHIC LOG | ELEV. DEPTH (ft) | SAMPLE NO. | TYPE | REC | | |
| 90 | 690 | 87.00 - 92.00 ROCK; wet, dark grey micaceous schist <i>(Continued)</i> | BR |  | 688.60 | | | |  | <p>WELL CASING Interval: -2.5'-82' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 82'-92' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 79.1'-92' Type: #1 Sand/Prepacked Filter</p> <p>FILTER PACK SEAL Interval: 77'-79.1' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-77' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: Hydrovac/4-inch Sonic Rock Drill: 4-inch Sonic</p> |
| | | Boring completed at 92.00 ft | | | | | | | | |
| 95 | 685 | | | | | | | | | |
| 100 | 680 | | | | | | | | | |
| 105 | 675 | | | | | | | | | |
| 110 | 670 | | | | | | | | | |
| 115 | 665 | | | | | | | | | |
| 120 | 660 | | | | | | | | | |
| 125 | 655 | | | | | | | | | |
| 130 | 650 | | | | | | | | | |
| 135 | | | | | | | | | | |

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT | 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Kristen Jurinko
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17

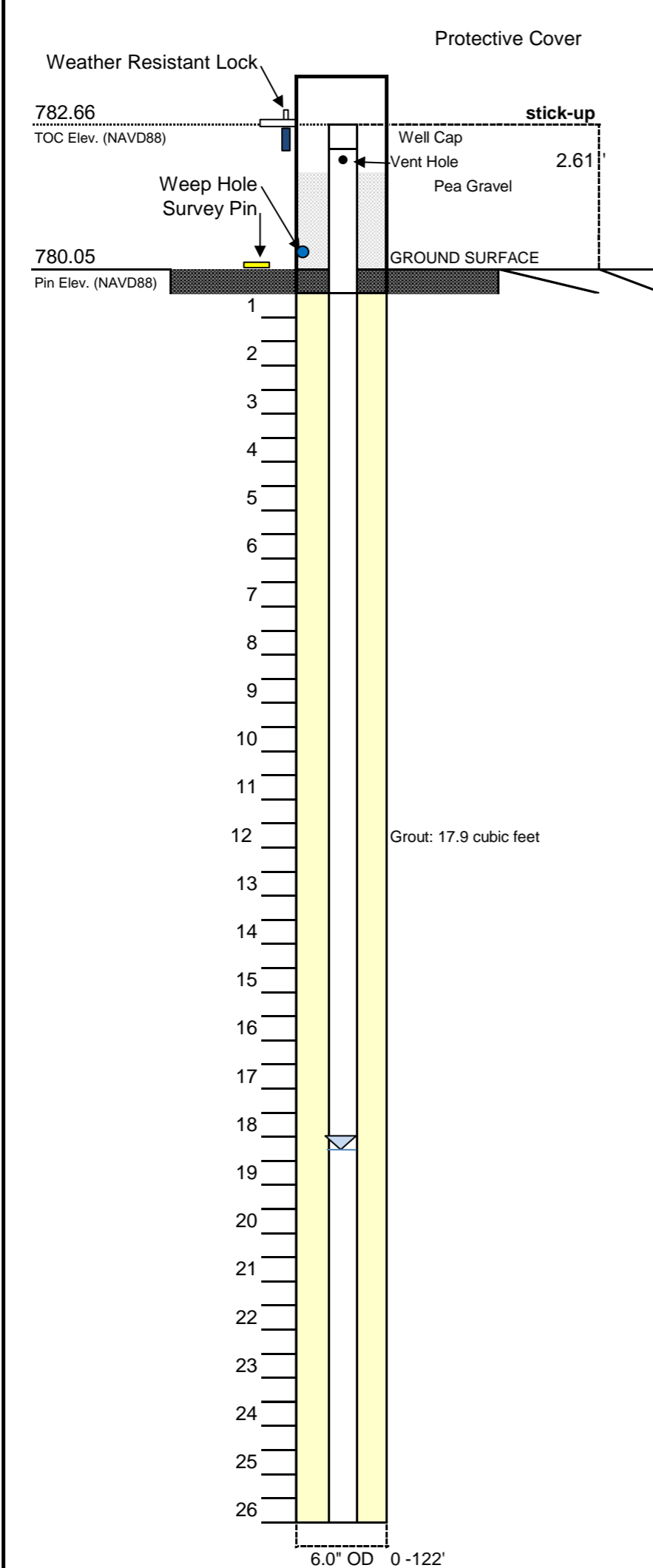




ATLANTIC COAST CONSULTING, INC.

WAMW-1
BORING ID

| | |
|--|---|
| PROJECT: Plant Wansley - Ash Pond | PROJECT NO.: 1054-110 |
| TOTAL DEPTH: 124.94 ft. TOC | SITE LOCATION: Carrollton, Georgia |
| DATE BEGIN: 7-Sep-2018 | DRILLER: Issac Youub |
| DATE COMPLETE: 16-Sep-2018 | RIG TYPE: T-300 Rotosonic |
| INSTALLED BY: Cascade | METHOD: Rotosonic |
| SUPERVISED BY: Ryan Walker | TOC Elev.: 782.66 NAVD88 |
| WATER 1ST ENCOUNTERED: 55' BGS | |
| WATER AFTER 48 HOURS: 21.34' TOC | |



Northing: 1241843.66
 Easting: 2028944.63

SURFACE COMPLETION:
 4"x4" Aluminum Protective Casing
 4"x4"x4" Concrete Pad
 Weather Resistant Lock
 Survey Pin

SOIL DESCRIPTION

| | |
|------------------------------|--|
| 0.00 - 10.00' | No recovery; Hydrovac |
| 10.0 - 19.0 Recovery (9/9) | Reddish orange, silty SAND (overburden) (SM) |
| 19.0 - 29.0 Recovery (10/10) | Reddish orange, silty SAND (overburden) (SM) |

MATERIALS:

| | |
|-------------------|---------------------------|
| GROUT: | Portland Type I/II Cement |
| MANUFACTURER: | Sakrete |
| BENTONITE SEAL: | 3/8" Bentonite Pellets |
| MANUFACTURER: | PDS |
| FILTER PACK SAND: | 20/40 Mesh |
| MANUFACTURER: | Filter Media GP#1 |
| WELL SCREEN: | Sch. 40 - 2" PVC |
| MANUFACTURER: | Silver-Line™ |
| SLOT SIZE: | 0.010-Inch Slot |
| WELL CASING: | Sch. 40 - 2" PVC |
| MANUFACTURER: | Silver-Line™ |

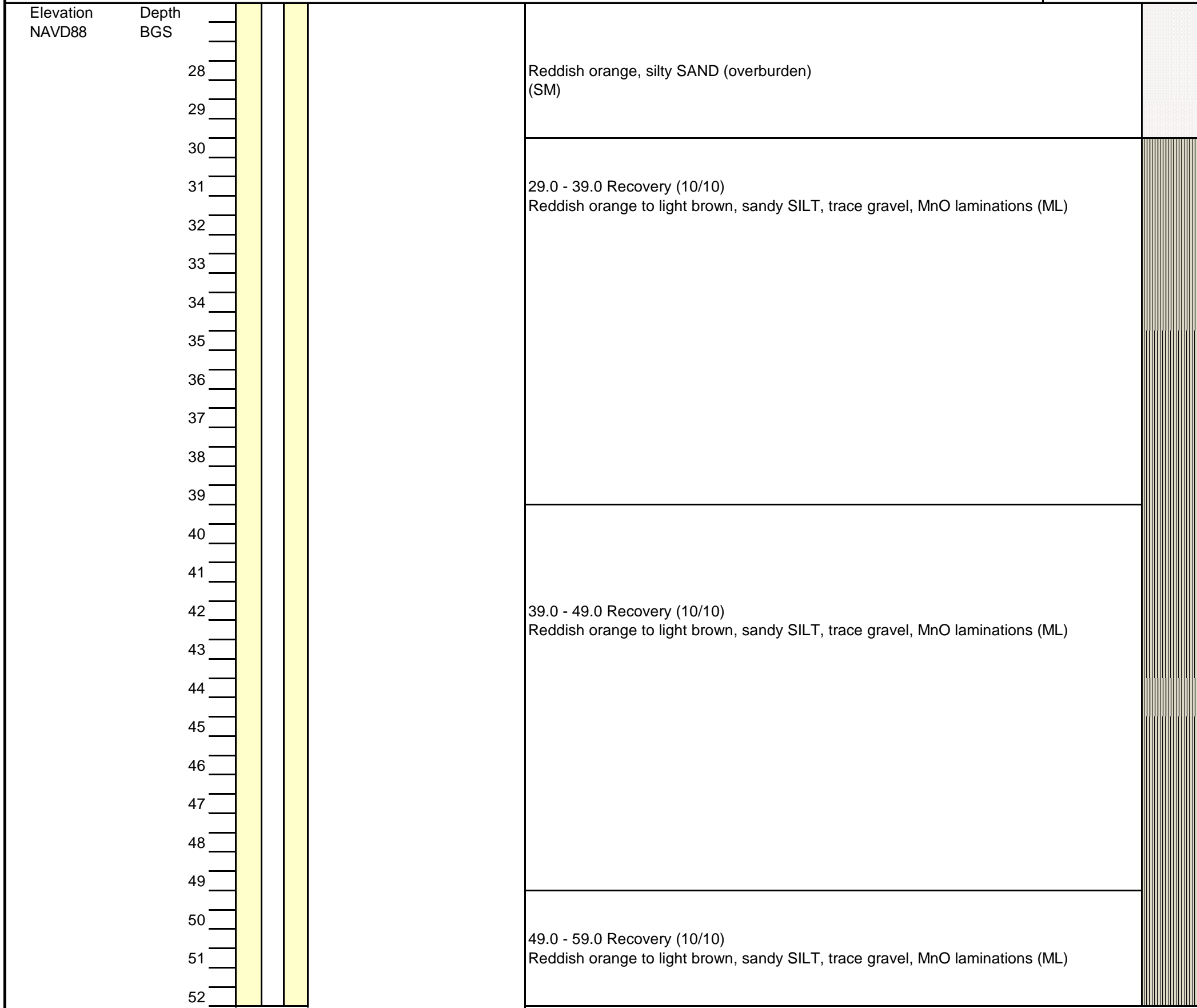
TOC - Top of Casing
 ID - Inside Diameter; OD - Outside Diameter
 NAVD88 - North American Vertical Datum of 1988
 BGS - Below Ground Surface



ATLANTIC COAST CONSULTING, INC.

WAMW-1
BORING ID

| | | | |
|-------------------------------|--------------------------|-----------------------|---------------------|
| PROJECT: | Plant Wansley - Ash Pond | PROJECT NO.: | I054-110 |
| TOTAL DEPTH: | 124.94 ft. TOC | SITE LOCATION: | Carrollton, Georgia |
| DATE BEGIN: | 14-Sep-2018 | DRILLER: | Issac Youub |
| DATE COMPLETE: | 16-Sep-2018 | RIG TYPE: | T-300 Rotosonic |
| INSTALLED BY: | Cascade | METHOD: | Rotosonic |
| SUPERVISED BY: | Ryan Walker | TOC Elev. | 782.66 NAVD88 |
| WATER 1ST ENCOUNTERED: | 55' BGS | | |
| WATER AFTER 48 HOURS: | 21.34' TOC | | |



6.0" OD 0-122'

MATERIALS:

- | | | |
|-------------------|--|---------------------------|
| GROUT: | | Portland Type I/II Cement |
| MANUFACTURER: | | Sakrete |
| BENTONITE SEAL: | | 3/8" Bentonite Pellets |
| MANUFACTURER: | | PDS |
| FILTER PACK SAND: | | 20/40 Mesh |
| MANUFACTURER: | | Filter Media GP#1 |
| WELL SCREEN: | | Sch. 40 - 2" PVC |
| MANUFACTURER: | | Silver-Line™ |
| SLOT SIZE: | | 0.010-Inch Slot |
| WELL CASING: | | Sch. 40 - 2" PVC |
| MANUFACTURER: | | Silver-Line™ |

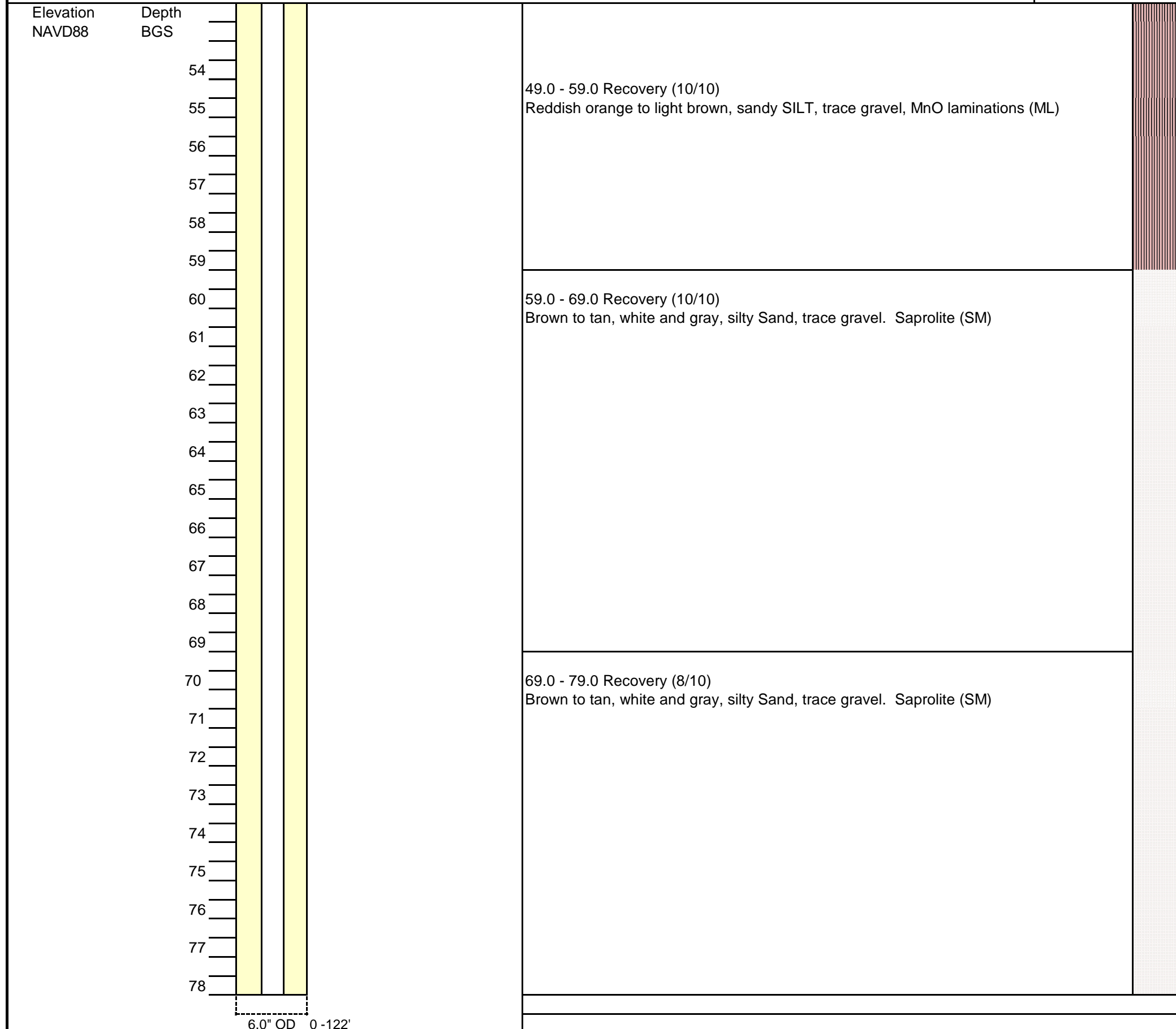
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ATLANTIC COAST CONSULTING, INC.

WAMW-1
BORING ID

| | | | |
|-------------------------------|--------------------------|-----------------------|---------------------|
| PROJECT: | Plant Wansley - Ash Pond | PROJECT NO.: | I054-110 |
| TOTAL DEPTH: | 124.94 ft. TOC | SITE LOCATION: | Carrollton, Georgia |
| DATE BEGIN: | 14-Sep-2018 | DRILLER: | Issac Youub |
| DATE COMPLETE: | 16-Sep-2018 | RIG TYPE: | T-300 Rotosonic |
| INSTALLED BY: | Cascade | METHOD: | Rotosonic |
| SUPERVISED BY: | Ryan Walker | TOC Elev.: | 782.66 NAVD88 |
| WATER 1ST ENCOUNTERED: | 55' BGS | | |
| WATER AFTER 48 HOURS: | 21.34' TOC | | |



MATERIALS:

| | | |
|---|--|---|
| GROUT: MANUFACTURER: | | Portland Type I/II Cement Sakrete |
| BENTONITE SEAL: MANUFACTURER: | | 3/8" Bentonite Pellets PDS |
| FILTER PACK SAND: MANUFACTURER: | | 20/40 Mesh Filter Media GP#1 |
| WELL SCREEN: MANUFACTURER: SLOT SIZE: | | Sch. 40 - 2" PVC Silver-Line™ 0.010-Inch Slot |
| WELL CASING: MANUFACTURER: | | Sch. 40 - 2" PVC Silver-Line™ |

TOC - Top of Casing
 ID - Inside Diameter; OD - Outside Diameter
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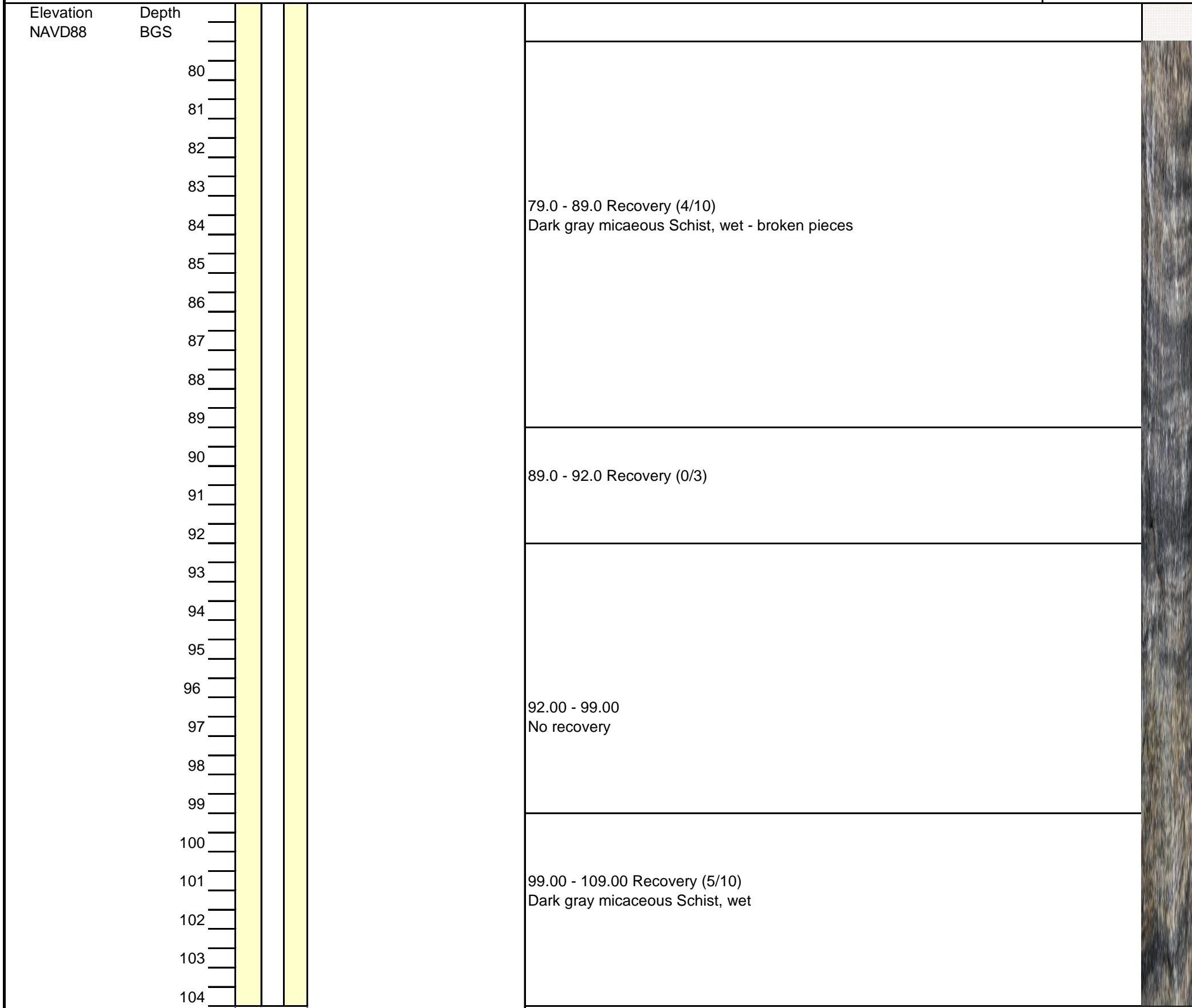


ATLANTIC COAST CONSULTING, INC.

WAMW-1

BORING ID

| | | | |
|-------------------------------|--------------------------|-----------------------|---------------------|
| PROJECT: | Plant Wansley - Ash Pond | PROJECT NO.: | I054-110 |
| TOTAL DEPTH: | 124.94 ft. TOC | SITE LOCATION: | Carrollton, Georgia |
| DATE BEGIN: | 14-Sep-2018 | DRILLER: | Issac Youub |
| DATE COMPLETE: | 16-Sep-2018 | RIG TYPE: | T-300 Rotosonic |
| INSTALLED BY: | Cascade | METHOD: | Rotosonic |
| SUPERVISED BY: | Ryan Walker | TOC Elev.: | 782.66 NAVD88 |
| WATER 1ST ENCOUNTERED: | 55' BGS | | |
| WATER AFTER 48 HOURS: | 21.34' TOC | | |



6.0" OD 0-122'

MATERIALS:

- | | | |
|---|--|---|
| GROUT: MANUFACTURER: | | Portland Type I/II Cement Sakrete |
| BENTONITE SEAL: MANUFACTURER: | | 3/8" Bentonite Pellets PDS |
| FILTER PACK SAND: MANUFACTURER: | | 20/40 Mesh Filter Media GP#1 |
| WELL SCREEN: MANUFACTURER: SLOT SIZE: | | Sch. 40 - 2" PVC Silver-Line™ 0.010-Inch Slot |
| WELL CASING: MANUFACTURER: | | Sch. 40 - 2" PVC Silver-Line™ |

TOC - Top of Casing
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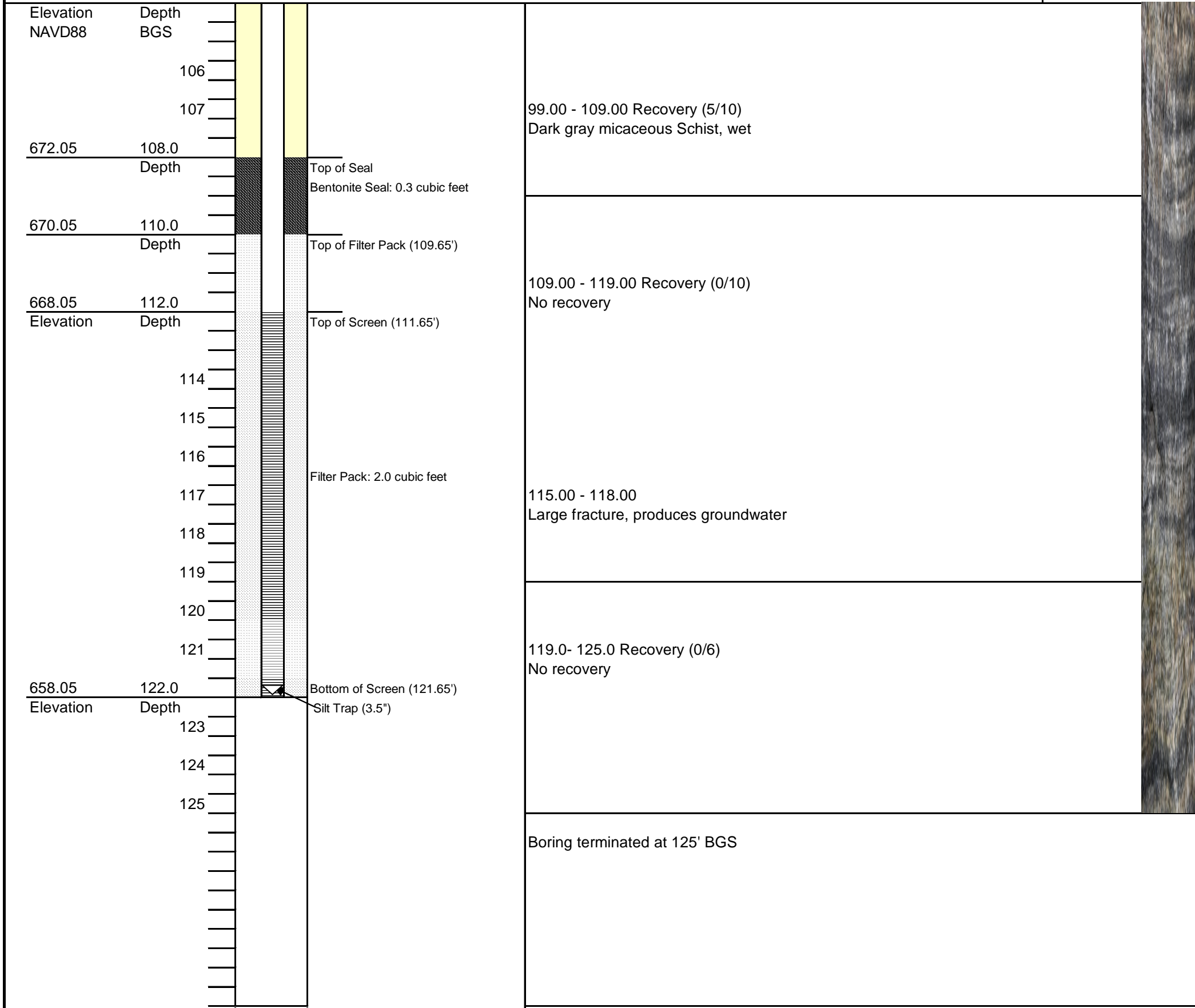


ATLANTIC COAST CONSULTING, INC.

WAMW-1

BORING ID

| | | | |
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| PROJECT: | Plant Wansley - Ash Pond | PROJECT NO.: | I054-110 |
| TOTAL DEPTH: | 124.94 ft. TOC | SITE LOCATION: | Carrollton, Georgia |
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| SUPERVISED BY: | Ryan Walker | TOC Elev.: | 782.66 NAVD88 |
| WATER 1ST ENCOUNTERED: | 55' BGS | | |
| WATER AFTER 48 HOURS: | 21.34' TOC | | |



99.00 - 109.00 Recovery (5/10)
 Dark gray micaceous Schist, wet

109.00 - 119.00 Recovery (0/10)
 No recovery

115.00 - 118.00
 Large fracture, produces groundwater

119.0- 125.0 Recovery (0/6)
 No recovery

Boring terminated at 125' BGS

MATERIALS:

| | | |
|---|--|---|
| GROUT: MANUFACTURER: | | Portland Type I/II Cement Sakrete |
| BENTONITE SEAL: MANUFACTURER: | | 3/8" Bentonite Pellets PDS |
| FILTER PACK SAND: MANUFACTURER: | | 20/40 Mesh Filter Media GP#1 |
| WELL SCREEN: MANUFACTURER: SLOT SIZE: | | Sch. 40 - 2" PVC Silver-Line™ 0.010-Inch Slot |
| WELL CASING: MANUFACTURER: | | Sch. 40 - 2" PVC Silver-Line™ |

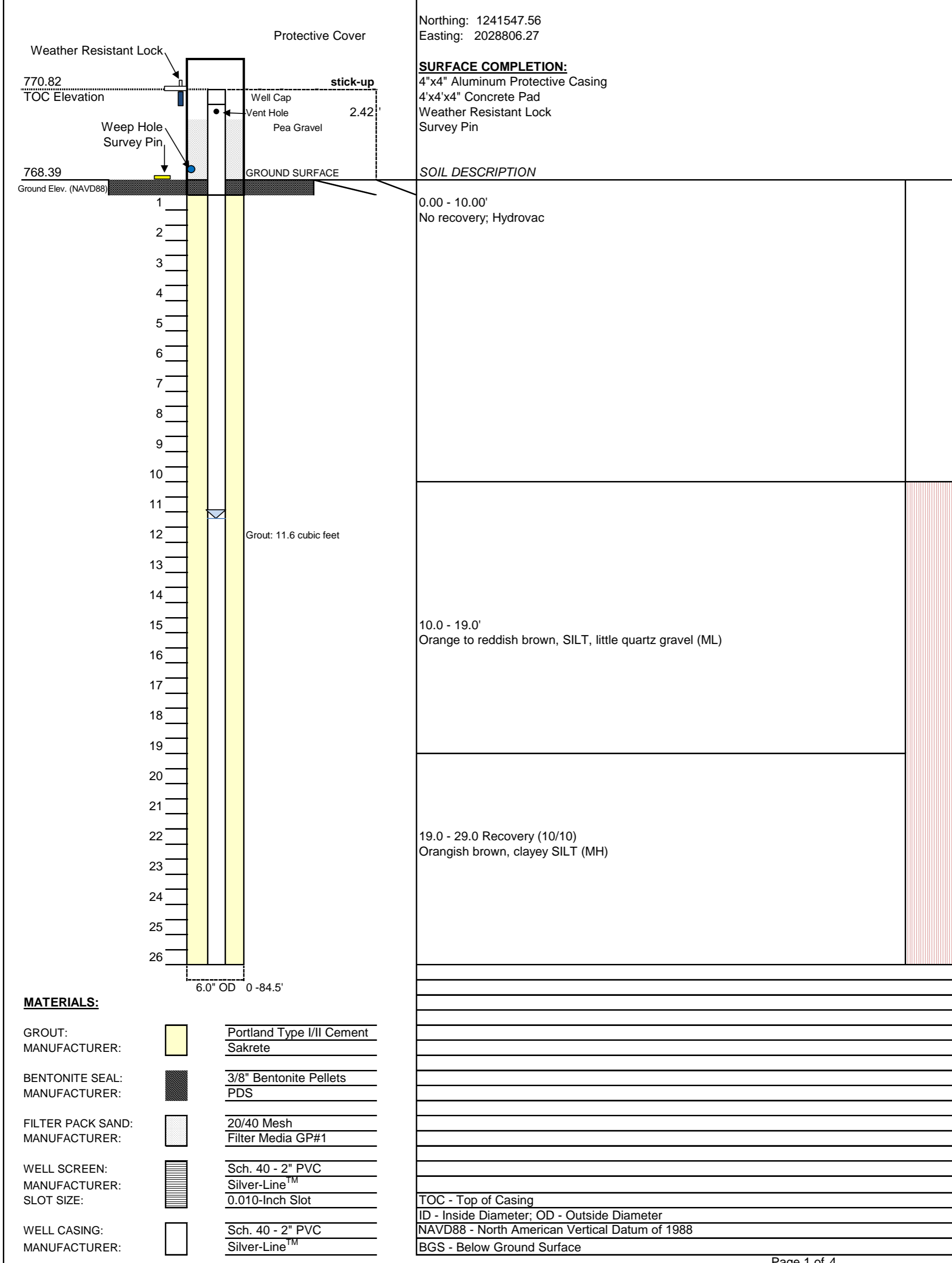
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 BGS - Below Ground Surface



ATLANTIC COAST CONSULTING, INC.

WAMW-2
 BORING ID

| | |
|--|---|
| PROJECT: Plant Wansley - Ash Pond | PROJECT NO.: I054-110 |
| TOTAL DEPTH: 86.14 ft. TOC | SITE LOCATION: Carrollton, Georgia |
| DATE BEGIN: 12-Sep-2018 | DRILLER: Issac Youub |
| DATE COMPLETE: 14-Sep-2018 | RIG TYPE: T-300 Rotosonic |
| INSTALLED BY: Cascade | METHOD: Rotosonic |
| SUPERVISED BY: Ryan Walker | TOC Elev. 770.82 NAVD88 |
| WATER 1ST ENCOUNTERED: 44' BGS | |
| WATER AFTER 48 HOURS: 14.42' TOC | |

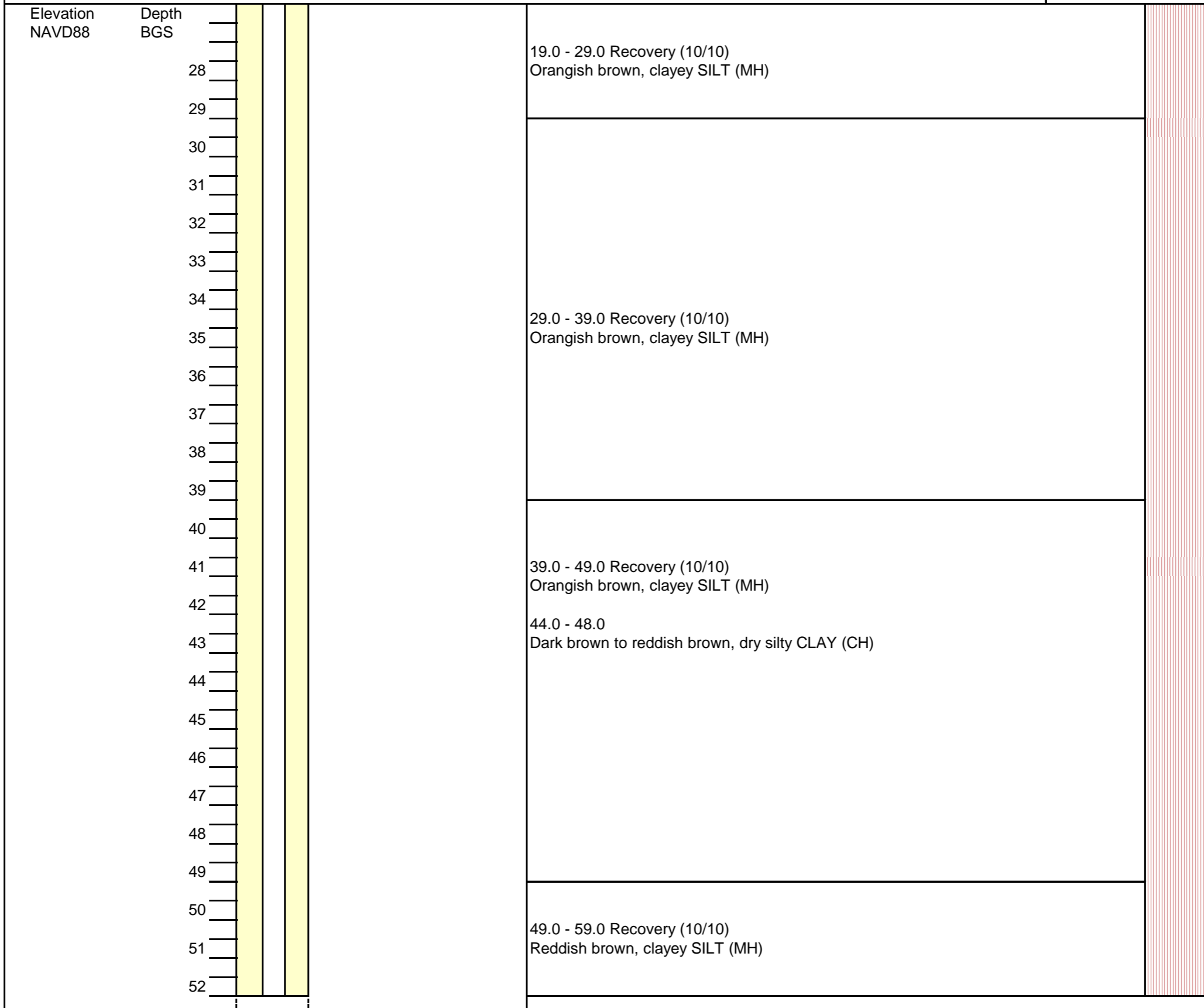




ATLANTIC COAST CONSULTING, INC.

WAMW-2
 BORING ID

| | | | |
|-------------------------------|--------------------------|-----------------------|---------------------|
| PROJECT: | Plant Wansley - Ash Pond | PROJECT NO.: | I054-110 |
| TOTAL DEPTH: | 86.14 ft. TOC | SITE LOCATION: | Carrollton, Georgia |
| DATE BEGIN: | 12-Sep-2018 | DRILLER: | Issac Youub |
| DATE COMPLETE: | 14-Sep-2018 | RIG TYPE: | T-300 Rotosonic |
| INSTALLED BY: | Cascade | METHOD: | Rotosonic |
| SUPERVISED BY: | Ryan Walker | TOC Elev. | 770.82 NAVD88 |
| WATER 1ST ENCOUNTERED: | 44' BGS | | |
| WATER AFTER 48 HOURS: | 14.42' TOC | | |



6.0" OD 0 - 84.5'

MATERIALS:

| | | |
|---|--|---|
| GROUT: MANUFACTURER: | | Portland Type I/II Cement Sakrete |
| BENTONITE SEAL: MANUFACTURER: | | 3/8" Bentonite Pellets PDS |
| FILTER PACK SAND: MANUFACTURER: | | 20/40 Mesh Filter Media GP#1 |
| WELL SCREEN: MANUFACTURER: SLOT SIZE: | | Sch. 40 - 2" PVC Silver-Line™ 0.010-Inch Slot |
| WELL CASING: MANUFACTURER: | | Sch. 40 - 2" PVC Johnson Screens™ |

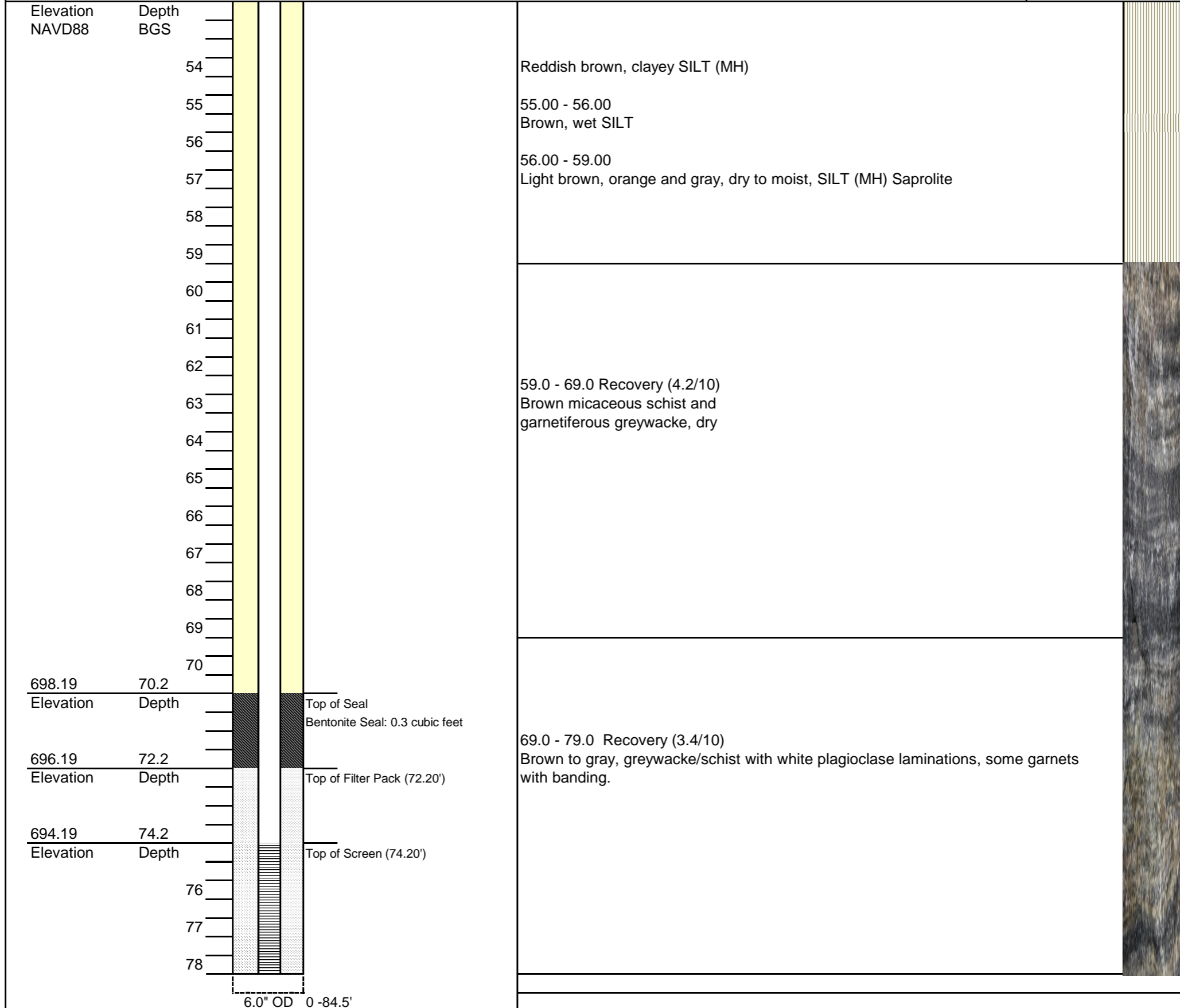
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 BGS - Below Ground Surface



ATLANTIC COAST CONSULTING, INC.

WAMW-2
BORING ID

| | |
|--|---|
| PROJECT: Plant Wansley - Ash Pond | PROJECT NO.: I054-110 |
| TOTAL DEPTH: 86.14 ft. TOC | SITE LOCATION: Carrollton, Georgia |
| DATE BEGIN: 12-Sep-2018 | DRILLER: Issac Youub |
| DATE COMPLETE: 14-Sep-2018 | RIG TYPE: T-300 Rotosonic |
| INSTALLED BY: Cascade | METHOD: Rotosonic |
| SUPERVISED BY: Ryan Walker | TOC Elev.: 770.82 NAVD88 |
| WATER 1ST ENCOUNTERED: 44' BGS | |
| WATER AFTER 48 HOURS: 14.42' TOC | |



MATERIALS:

| | | |
|---|--|---|
| GROUT: MANUFACTURER: | | Portland Type I/II Cement Sakrete |
| BENTONITE SEAL: MANUFACTURER: | | 3/8" Bentonite Pellets PDS |
| FILTER PACK SAND: MANUFACTURER: | | 20/40 Mesh Filter Media GP#1 |
| WELL SCREEN: MANUFACTURER: SLOT SIZE: | | Sch. 40 - 2" PVC Silver-Line™ 0.010-Inch Slot |
| WELL CASING: MANUFACTURER: | | Sch. 40 - 2" PVC Johnson Screens™ |

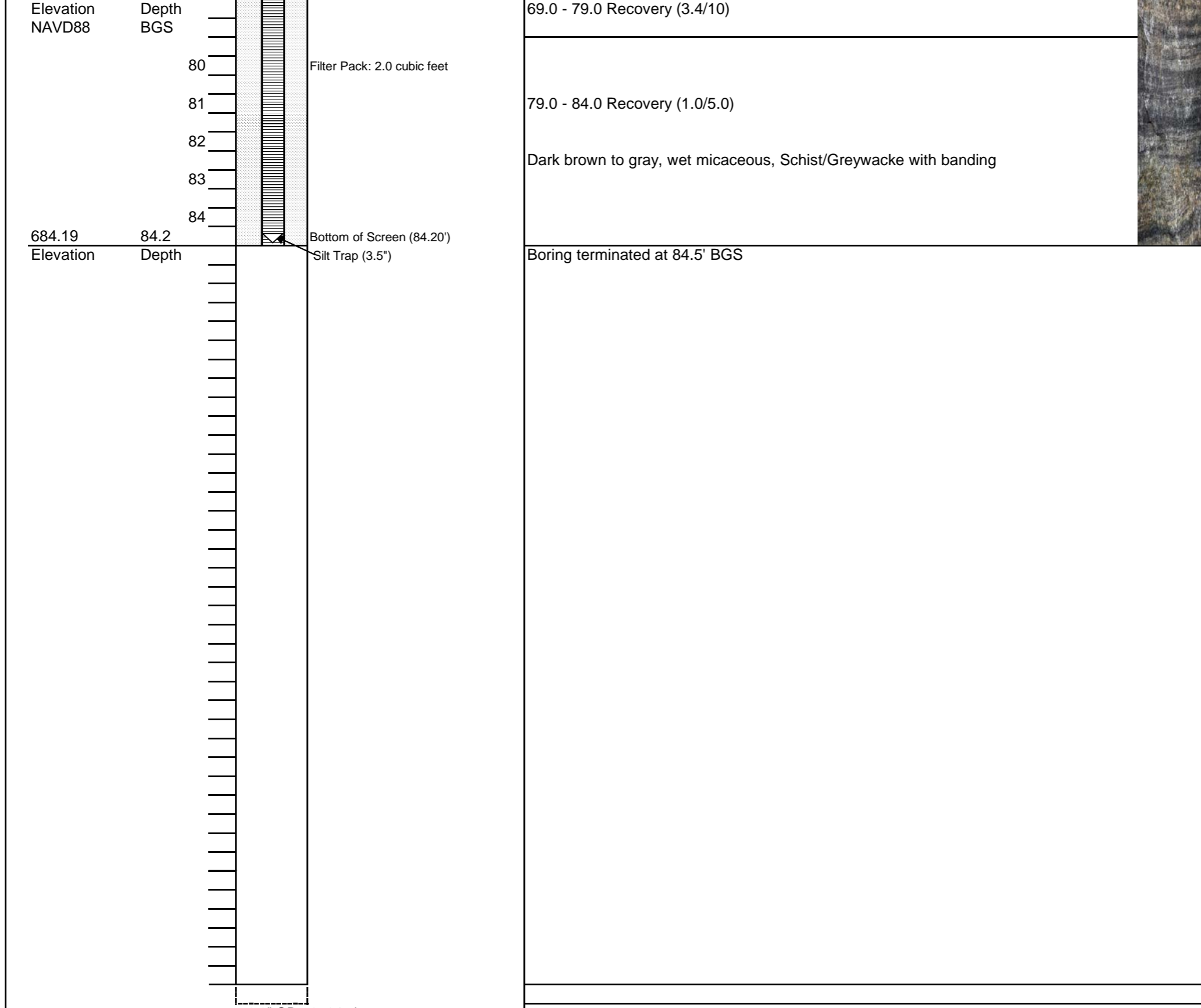
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ID - Inside Diameter; OD - Outside Diameter
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BGS - Below Ground Surface



ATLANTIC COAST CONSULTING, INC.

WAMW-2
 BORING ID

| | | | |
|-------------------------------|--------------------------|-----------------------|---------------------|
| PROJECT: | Plant Wansley - Ash Pond | PROJECT NO.: | I054-110 |
| TOTAL DEPTH: | 86.14 ft. TOC | SITE LOCATION: | Carrollton, Georgia |
| DATE BEGIN: | 12-Sep-2018 | DRILLER: | Issac Youub |
| DATE COMPLETE: | 14-Sep-2018 | RIG TYPE: | T-300 Rotosonic |
| INSTALLED BY: | Cascade | METHOD: | Rotosonic |
| SUPERVISED BY: | Ryan Walker | TOC Elev. | 770.82 NAVD88 |
| WATER 1ST ENCOUNTERED: | 44' BGS | | |
| WATER AFTER 48 HOURS: | 14.42' TOC | | |



69.0 - 79.0 Recovery (3.4/10)

79.0 - 84.0 Recovery (1.0/5.0)

Dark brown to gray, wet micaceous, Schist/Greywacke with banding

Boring terminated at 84.5' BGS

MATERIALS:

| | | |
|---|--|---|
| GROUT: MANUFACTURER: | | Portland Type I/II Cement Sakrete |
| BENTONITE SEAL: MANUFACTURER: | | 3/8" Bentonite Pellets PDS |
| FILTER PACK SAND: MANUFACTURER: | | 20/40 Mesh Filter Media GP#1 |
| WELL SCREEN: MANUFACTURER: SLOT SIZE: | | Sch. 40 - 2" PVC Silver-Line™ 0.010-Inch Slot |
| WELL CASING: MANUFACTURER: | | Sch. 40 - 2" PVC Johnson Screens™ |

TOC - Top of Casing
 ID - Inside Diameter; OD - Outside Diameter
 NAVD88 - North American Vertical Datum of 1988
 BGS - Below Ground Surface

APPENDIX B

Laboratory Analytical Reports

ANALYTICAL REPORT

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

Laboratory Job ID: 180-109917-1
Client Project/Site: Plant Wansley GW7327

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
11/10/2020 6:24:13 AM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.eurofinsus.com/Env

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

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

PA Lab ID: 02-00416



Table of Contents

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| Lab Chronicle | 9 |
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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Job ID: 180-109917-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-109917-1

Comments

No additional comments.

Receipt

The samples were received on 8/21/2020 9:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9° C.

Metals

7 Step Sequential Extraction Procedure

These soil samples were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7 Step Sequential Extraction Procedure". SW-846 Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

An aliquot of each sample was sequentially extracted using the steps listed below:

- Step 1 - Exchangeable Fraction: A 5 gram aliquot of sample was extracted with 25 mL of 1M magnesium sulfate (MgSO₄), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 2 - Carbonate Fraction: The sample residue from step 1 was extracted with 25 mL of 1M sodium acetate/acetic acid (NaOAc/HOAc) at pH 5, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 3 - Non-crystalline Materials Fraction: The sample residue from step 2 was extracted with 25 mL of 0.2M ammonium oxalate (pH 3), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 4 - Metal Hydroxide Fraction: The sample residue from step 3 was extracted with 25 mL of 1M hydroxylamine hydrochloride solution in 25% v/v acetic acid, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 5 - Organic-bound Fraction: The sample residue from step 4 was extracted three times with 25 mL of 5% sodium hypochlorite (NaClO) at pH 9.5, centrifuged and filtered. The resulting leachates were combined and 5 mL were digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 6 - Acid/Sulfide Fraction: The sample residue from step 5 was extracted with 25 mL of a 3:1:2 v/v solution of HCl-HNO₃-H₂O, centrifuged and filtered. 5 mL of the resulting leachate was diluted to 50 mL with reagent water and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 7 - Residual Fraction: A 1.0 g aliquot of the sample residue from step 6 was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Results are reported in mg/kg on a dry weight basis.

In addition, a 1.0 g aliquot of the original sample was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Total metal results are reported in mg/kg on a dry weight basis.

Results were calculated using the following equation:

$$\text{Result, } \mu\text{g/g or mg/Kg, dry weight} = (C \times V \times V1 \times D) / (W \times S \times V2)$$

Where:

- C = Concentration from instrument readout, $\mu\text{g/mL}$
- V = Final volume of digestate, mL
- D = Instrument dilution factor
- V1 = Total volume of leachate, mL
- V2 = Volume of leachate digested, mL
- W = Wet weight of sample, g
- S = Percent solids/100

Case Narrative

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Job ID: 180-109917-1 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

A method blank, laboratory control sample and laboratory control sample duplicate were prepared and analyzed with each SEP step in order to provide information about both the presence of elements of interest in the extraction solutions, and the recovery of elements of interest from the extraction solutions. Results outside of laboratory QC limits do not reflect out of control performance, but rather the effect of the extraction solution upon the analyte.

A laboratory sample duplicate was prepared and analyzed with each batch of samples in order to provide information regarding the reproducibility of the procedure.

SEP Report Notes:

The final report lists the results for each step, the result for the total digestion of the sample, and a sum of the results of steps 1 through 7 by element.

The digestates for steps 1, 2 and 5 were analyzed at a dilution due to instrument problems caused by the high solids content of the digestates. The reporting limits were adjusted accordingly.

Method 6010B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: PB-3 57-61 (180-109917-1), PB-3 47-52 (180-109917-2), PB-4 49-59 (180-109917-3), PB-4 64-68 (180-109917-4) and PB-4 73-80 (180-109917-5).

Method 6010B SEP: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: PB-3 57-61 (180-109917-1), PB-4 49-59 (180-109917-3) and PB-4 73-80 (180-109917-5).

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

General Chemistry

% Moisture: The samples were analyzed for percent moisture using SOP number KNOX-WC-0012 (based on Modified MCAWW 160.3 and SM2540B and on the percent moisture determinations described in methods 3540C and 3550B).

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 Wansley GW7327

Job ID: 180-109917-1

Qualifiers

Metals

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

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 Wansley GW7327

Job ID: 180-109917-1

Laboratory: Eurofins TestAmerica, Knoxville

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

| Authority | Program | Identification Number | Expiration Date |
|------------------------|-----------------------|-----------------------|-----------------|
| | AFCEE | N/A | |
| ANAB | Dept. of Defense ELAP | L2311 | 02-13-22 |
| ANAB | Dept. of Energy | L2311.01 | 02-13-22 |
| ANAB | ISO/IEC 17025 | L2311 | 02-13-22 |
| ANAB | ISO/IEC 17025 | L2311 | 02-14-22 |
| Arkansas DEQ | State | 88-0688 | 06-17-21 |
| California | State | 2423 | 06-30-21 |
| Colorado | State | TN00009 | 02-28-21 |
| Connecticut | State | PH-0223 | 09-30-21 |
| Florida | NELAP | E87177 | 07-01-21 |
| Georgia (DW) | State | 906 | 12-11-22 |
| Hawaii | State | NA | 12-11-21 |
| Kansas | NELAP | E-10349 | 11-01-20 * |
| Kentucky (DW) | State | 90101 | 01-01-21 |
| Louisiana | NELAP | LA110001 | 12-31-12 * |
| Louisiana | NELAP | 83979 | 06-30-21 |
| Louisiana (DW) | State | LA019 | 12-31-20 |
| Maryland | State | 277 | 03-31-21 |
| Michigan | State | 9933 | 12-11-22 |
| Nevada | State | TN00009 | 07-31-21 |
| New Hampshire | NELAP | 299919 | 01-17-21 |
| New Jersey | NELAP | TN001 | 07-01-21 |
| New York | NELAP | 10781 | 03-31-21 |
| North Carolina (DW) | State | 21705 | 07-31-21 |
| North Carolina (WW/SW) | State | 64 | 12-31-20 |
| Ohio VAP | State | CL0059 | 06-02-23 |
| Oklahoma | State | 9415 | 08-31-21 |
| Oregon | NELAP | TNI0189 | 01-02-21 |
| Pennsylvania | NELAP | 68-00576 | 12-31-20 |
| Tennessee | State | 02014 | 12-11-22 |
| Texas | NELAP | T104704380-18-12 | 08-31-21 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-21 |
| USDA | US Federal Programs | P330-19-00236 | 08-20-22 |
| Utah | NELAP | TN00009 | 07-31-21 |
| Virginia | NELAP | 460176 | 09-14-21 |
| Washington | State | C593 | 01-19-21 |
| West Virginia (DW) | State | 9955C | 01-01-21 |
| West Virginia DEP | State | 345 | 05-01-21 |
| Wisconsin | State | 998044300 | 08-31-21 |

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

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 180-109917-1 | PB-3 57-61 | Solid | 07/14/20 11:05 | 08/21/20 09:45 | |
| 180-109917-2 | PB-3 47-52 | Solid | 07/14/20 11:00 | 08/21/20 09:45 | |
| 180-109917-3 | PB-4 49-59 | Solid | 07/14/20 12:10 | 08/21/20 09:45 | |
| 180-109917-4 | PB-4 64-68 | Solid | 07/14/20 12:15 | 08/21/20 09:45 | |
| 180-109917-5 | PB-4 73-80 | Solid | 07/14/20 12:20 | 08/21/20 09:45 | |
| 180-109917-6 | PB-7 144-154 | Solid | 07/14/20 12:45 | 08/21/20 09:45 | |
| 180-109917-7 | PB-8 135-145 | Solid | 07/14/20 15:15 | 08/21/20 09:45 | |

Method Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

| Method | Method Description | Protocol | Laboratory |
|-----------------|--|----------|------------|
| 6010B | SEP Metals (ICP) - Total | SW846 | TAL KNX |
| 6010B SEP | SEP Metals (ICP) | SW846 | TAL KNX |
| 3010A | Preparation, Total Metals | SW846 | TAL KNX |
| Acid/Sulfide | Sequential Extraction Procedure, Acid/Sulfide Fraction | TAL-KNOX | TAL KNX |
| Carbonate | Sequential Extraction Procedure, Carbonate Fraction | TAL-KNOX | TAL KNX |
| Exchangeable | Sequential Extraction Procedure, Exchangeable Fraction | TAL-KNOX | TAL KNX |
| Metal Hydroxide | Sequential Extraction Procedure, Metal Hydroxide Fraction | TAL-KNOX | TAL KNX |
| Non-Crystalline | Sequential Extraction Procedure, Non-crystalline Materials | TAL-KNOX | TAL KNX |
| Organic-Bound | Sequential Extraction Procedure, Organic Bound Fraction | TAL-KNOX | TAL KNX |
| Residual | Sequential Extraction Procedure, Residual Fraction | TAL-KNOX | TAL KNX |
| Total | Preparation, Total Material | TAL-KNOX | TAL KNX |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-KNOX = TestAmerica Laboratories, Knoxville, Facility Standard Operating Procedure.

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-3 57-61

Lab Sample ID: 180-109917-1

Date Collected: 07/14/20 11:05

Matrix: Solid

Date Received: 08/21/20 09:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Sum of Steps 1-7 | Analysis | 6010B SEP | | 1 | | | 44105 | 11/02/20 10:23 | DKW | TAL KNX |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PB-3 57-61

Lab Sample ID: 180-109917-1

Date Collected: 07/14/20 11:05

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.1

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | Total | | | 1.000 g | 50 mL | 43059 | 09/28/20 08:00 | KNC | TAL KNX |
| Total/NA | Analysis | 6010B | | 5 | | | 44042 | 10/29/20 16:33 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 1 | SEP | Exchangeable | | | 5.000 g | 25 mL | 43060 | 09/28/20 08:00 | KNC | TAL KNX |
| Step 1 | Prep | 3010A | | | 5 mL | 50 mL | 43133 | 09/29/20 08:00 | KNC | TAL KNX |
| Step 1 | Analysis | 6010B SEP | | 4 | | | 43944 | 10/27/20 12:12 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 2 | SEP | Carbonate | | | 5.000 g | 25 mL | 43447 | 10/12/20 10:01 | KNC | TAL KNX |
| Step 2 | Prep | 3010A | | | 5 mL | 50 mL | 43460 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 2 | Analysis | 6010B SEP | | 3 | | | 43944 | 10/27/20 13:53 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 3 | SEP | Non-Crystalline | | | 5.000 g | 25 mL | 43465 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 3 | Prep | 3010A | | | 5 mL | 50 mL | 43495 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 3 | Analysis | 6010B SEP | | 1 | | | 43944 | 10/27/20 15:39 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 4 | SEP | Metal Hydroxide | | | 5.000 g | 25 mL | 43496 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 4 | Prep | 3010A | | | 5 mL | 50 mL | 43539 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 4 | Analysis | 6010B SEP | | 2 | | | 43997 | 10/28/20 16:31 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 5 | SEP | Organic-Bound | | | 5.000 g | 75 mL | 43540 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 5 | Prep | 3010A | | | 5 mL | 50 mL | 43604 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 5 | Analysis | 6010B SEP | | 5 | | | 43997 | 10/28/20 13:46 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 6 | SEP | Acid/Sulfide | | | 5.00 g | 250 mL | 43605 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 6 | Analysis | 6010B SEP | | 1 | | | 43997 | 10/28/20 15:32 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 7 | Prep | Residual | | | 1.000 g | 50 mL | 43637 | 10/20/20 08:00 | KNC | TAL KNX |
| Step 7 | Analysis | 6010B SEP | | 1 | | | 44042 | 10/29/20 12:12 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |

Client Sample ID: PB-3 47-52

Lab Sample ID: 180-109917-2

Date Collected: 07/14/20 11:00

Matrix: Solid

Date Received: 08/21/20 09:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Sum of Steps 1-7 | Analysis | 6010B SEP | | 1 | | | 44105 | 11/02/20 10:23 | DKW | TAL KNX |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-3 47-52

Lab Sample ID: 180-109917-2

Date Collected: 07/14/20 11:00

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.5

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | Total | | | 1.000 g | 50 mL | 43059 | 09/28/20 08:00 | KNC | TAL KNX |
| Total/NA | Analysis | 6010B | | 5 | | | 44042 | 10/29/20 16:38 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 1 | SEP | Exchangeable | | | 5.000 g | 25 mL | 43060 | 09/28/20 08:00 | KNC | TAL KNX |
| Step 1 | Prep | 3010A | | | 5 mL | 50 mL | 43133 | 09/29/20 08:00 | KNC | TAL KNX |
| Step 1 | Analysis | 6010B SEP | | 4 | | | 43944 | 10/27/20 12:17 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 2 | SEP | Carbonate | | | 5.000 g | 25 mL | 43447 | 10/12/20 10:01 | KNC | TAL KNX |
| Step 2 | Prep | 3010A | | | 5 mL | 50 mL | 43460 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 2 | Analysis | 6010B SEP | | 3 | | | 43944 | 10/27/20 13:58 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 3 | SEP | Non-Crystalline | | | 5.000 g | 25 mL | 43465 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 3 | Prep | 3010A | | | 5 mL | 50 mL | 43495 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 3 | Analysis | 6010B SEP | | 1 | | | 43944 | 10/27/20 15:44 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 4 | SEP | Metal Hydroxide | | | 5.000 g | 25 mL | 43496 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 4 | Prep | 3010A | | | 5 mL | 50 mL | 43539 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 4 | Analysis | 6010B SEP | | 1 | | | 43997 | 10/28/20 12:04 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 5 | SEP | Organic-Bound | | | 5.000 g | 75 mL | 43540 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 5 | Prep | 3010A | | | 5 mL | 50 mL | 43604 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 5 | Analysis | 6010B SEP | | 5 | | | 43997 | 10/28/20 13:51 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 6 | SEP | Acid/Sulfide | | | 5.00 g | 250 mL | 43605 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 6 | Analysis | 6010B SEP | | 1 | | | 43997 | 10/28/20 15:37 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 7 | Prep | Residual | | | 1.000 g | 50 mL | 43637 | 10/20/20 08:00 | KNC | TAL KNX |
| Step 7 | Analysis | 6010B SEP | | 1 | | | 44042 | 10/29/20 12:17 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |

Client Sample ID: PB-4 49-59

Lab Sample ID: 180-109917-3

Date Collected: 07/14/20 12:10

Matrix: Solid

Date Received: 08/21/20 09:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Sum of Steps 1-7 | Analysis | 6010B SEP | | 1 | | | 44105 | 11/02/20 10:23 | DKW | TAL KNX |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PB-4 49-59

Lab Sample ID: 180-109917-3

Date Collected: 07/14/20 12:10

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.1

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | Total | | | 1.000 g | 50 mL | 43059 | 09/28/20 08:00 | KNC | TAL KNX |
| Total/NA | Analysis | 6010B | | 5 | | | 44042 | 10/29/20 16:43 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-4 49-59

Lab Sample ID: 180-109917-3

Date Collected: 07/14/20 12:10

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.1

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Step 1 | SEP | Exchangeable | | | 5.000 g | 25 mL | 43060 | 09/28/20 08:00 | KNC | TAL KNX |
| Step 1 | Prep | 3010A | | | 5 mL | 50 mL | 43133 | 09/29/20 08:00 | KNC | TAL KNX |
| Step 1 | Analysis | 6010B SEP | | 4 | | | 43944 | 10/27/20 12:36 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 2 | SEP | Carbonate | | | 5.000 g | 25 mL | 43447 | 10/12/20 10:01 | KNC | TAL KNX |
| Step 2 | Prep | 3010A | | | 5 mL | 50 mL | 43460 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 2 | Analysis | 6010B SEP | | 3 | | | 43944 | 10/27/20 14:03 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 3 | SEP | Non-Crystalline | | | 5.000 g | 25 mL | 43465 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 3 | Prep | 3010A | | | 5 mL | 50 mL | 43495 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 3 | Analysis | 6010B SEP | | 1 | | | 43944 | 10/27/20 15:49 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 4 | SEP | Metal Hydroxide | | | 5.000 g | 25 mL | 43496 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 4 | Prep | 3010A | | | 5 mL | 50 mL | 43539 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 4 | Analysis | 6010B SEP | | 1 | | | 43997 | 10/28/20 12:28 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 5 | SEP | Organic-Bound | | | 5.000 g | 75 mL | 43540 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 5 | Prep | 3010A | | | 5 mL | 50 mL | 43604 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 5 | Analysis | 6010B SEP | | 5 | | | 43997 | 10/28/20 13:56 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 6 | SEP | Acid/Sulfide | | | 5.00 g | 250 mL | 43605 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 6 | Analysis | 6010B SEP | | 2 | | | 43997 | 10/28/20 16:40 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 7 | Prep | Residual | | | 1.000 g | 50 mL | 43637 | 10/20/20 08:00 | KNC | TAL KNX |
| Step 7 | Analysis | 6010B SEP | | 1 | | | 44042 | 10/29/20 12:32 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |

Client Sample ID: PB-4 64-68

Lab Sample ID: 180-109917-4

Date Collected: 07/14/20 12:15

Matrix: Solid

Date Received: 08/21/20 09:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Sum of Steps 1-7 | Analysis | 6010B SEP | | 1 | | | 44105 | 11/02/20 10:23 | DKW | TAL KNX |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PB-4 64-68

Lab Sample ID: 180-109917-4

Date Collected: 07/14/20 12:15

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 98.8

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | Total | | | 1.000 g | 50 mL | 43059 | 09/28/20 08:00 | KNC | TAL KNX |
| Total/NA | Analysis | 6010B | | 5 | | | 44042 | 10/29/20 16:47 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-4 64-68

Lab Sample ID: 180-109917-4

Date Collected: 07/14/20 12:15

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 98.8

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Step 1 | SEP | Exchangeable | | | 5.000 g | 25 mL | 43060 | 09/28/20 08:00 | KNC | TAL KNX |
| Step 1 | Prep | 3010A | | | 5 mL | 50 mL | 43133 | 09/29/20 08:00 | KNC | TAL KNX |
| Step 1 | Analysis | 6010B SEP | | 4 | | | 43944 | 10/27/20 12:41 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 2 | SEP | Carbonate | | | 5.000 g | 25 mL | 43447 | 10/12/20 10:01 | KNC | TAL KNX |
| Step 2 | Prep | 3010A | | | 5 mL | 50 mL | 43460 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 2 | Analysis | 6010B SEP | | 3 | | | 43944 | 10/27/20 14:07 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 3 | SEP | Non-Crystalline | | | 5.000 g | 25 mL | 43465 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 3 | Prep | 3010A | | | 5 mL | 50 mL | 43495 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 3 | Analysis | 6010B SEP | | 1 | | | 43944 | 10/27/20 15:54 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 4 | SEP | Metal Hydroxide | | | 5.000 g | 25 mL | 43496 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 4 | Prep | 3010A | | | 5 mL | 50 mL | 43539 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 4 | Analysis | 6010B SEP | | 1 | | | 43997 | 10/28/20 12:33 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 5 | SEP | Organic-Bound | | | 5.000 g | 75 mL | 43540 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 5 | Prep | 3010A | | | 5 mL | 50 mL | 43604 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 5 | Analysis | 6010B SEP | | 5 | | | 43997 | 10/28/20 14:00 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 6 | SEP | Acid/Sulfide | | | 5.00 g | 250 mL | 43605 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 6 | Analysis | 6010B SEP | | 1 | | | 43997 | 10/28/20 15:47 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 7 | Prep | Residual | | | 1.000 g | 50 mL | 43637 | 10/20/20 08:00 | KNC | TAL KNX |
| Step 7 | Analysis | 6010B SEP | | 1 | | | 44042 | 10/29/20 12:37 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |

Client Sample ID: PB-4 73-80

Lab Sample ID: 180-109917-5

Date Collected: 07/14/20 12:20

Matrix: Solid

Date Received: 08/21/20 09:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Sum of Steps 1-7 | Analysis | 6010B SEP | | 1 | | | 44105 | 11/02/20 10:23 | DKW | TAL KNX |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PB-4 73-80

Lab Sample ID: 180-109917-5

Date Collected: 07/14/20 12:20

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.6

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | Total | | | 1.000 g | 50 mL | 43059 | 09/28/20 08:00 | KNC | TAL KNX |
| Total/NA | Analysis | 6010B | | 5 | | | 44042 | 10/29/20 16:52 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-4 73-80

Lab Sample ID: 180-109917-5

Date Collected: 07/14/20 12:20

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.6

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Step 1 | SEP | Exchangeable | | | 5.000 g | 25 mL | 43060 | 09/28/20 08:00 | KNC | TAL KNX |
| Step 1 | Prep | 3010A | | | 5 mL | 50 mL | 43133 | 09/29/20 08:00 | KNC | TAL KNX |
| Step 1 | Analysis | 6010B SEP | | 4 | | | 43944 | 10/27/20 12:45 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 2 | SEP | Carbonate | | | 5.000 g | 25 mL | 43447 | 10/12/20 10:01 | KNC | TAL KNX |
| Step 2 | Prep | 3010A | | | 5 mL | 50 mL | 43460 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 2 | Analysis | 6010B SEP | | 3 | | | 43944 | 10/27/20 14:12 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 3 | SEP | Non-Crystalline | | | 5.000 g | 25 mL | 43465 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 3 | Prep | 3010A | | | 5 mL | 50 mL | 43495 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 3 | Analysis | 6010B SEP | | 1 | | | 43944 | 10/27/20 15:58 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 4 | SEP | Metal Hydroxide | | | 5.000 g | 25 mL | 43496 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 4 | Prep | 3010A | | | 5 mL | 50 mL | 43539 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 4 | Analysis | 6010B SEP | | 2 | | | 43997 | 10/28/20 16:36 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 5 | SEP | Organic-Bound | | | 5.000 g | 75 mL | 43540 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 5 | Prep | 3010A | | | 5 mL | 50 mL | 43604 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 5 | Analysis | 6010B SEP | | 5 | | | 43997 | 10/28/20 14:05 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 6 | SEP | Acid/Sulfide | | | 5.00 g | 250 mL | 43605 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 6 | Analysis | 6010B SEP | | 1 | | | 43997 | 10/28/20 15:52 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 7 | Prep | Residual | | | 1.000 g | 50 mL | 43637 | 10/20/20 08:00 | KNC | TAL KNX |
| Step 7 | Analysis | 6010B SEP | | 1 | | | 44042 | 10/29/20 12:42 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |

Client Sample ID: PB-7 144-154

Lab Sample ID: 180-109917-6

Date Collected: 07/14/20 12:45

Matrix: Solid

Date Received: 08/21/20 09:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Sum of Steps 1-7 | Analysis | 6010B SEP | | 1 | | | 44105 | 11/02/20 10:23 | DKW | TAL KNX |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PB-7 144-154

Lab Sample ID: 180-109917-6

Date Collected: 07/14/20 12:45

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.7

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | Total | | | 1.000 g | 50 mL | 43059 | 09/28/20 08:00 | KNC | TAL KNX |
| Total/NA | Analysis | 6010B | | 1 | | | 44042 | 10/29/20 14:36 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-7 144-154

Lab Sample ID: 180-109917-6

Date Collected: 07/14/20 12:45

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.7

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Step 1 | SEP | Exchangeable | | | 5.000 g | 25 mL | 43060 | 09/28/20 08:00 | KNC | TAL KNX |
| Step 1 | Prep | 3010A | | | 5 mL | 50 mL | 43133 | 09/29/20 08:00 | KNC | TAL KNX |
| Step 1 | Analysis | 6010B SEP | | 4 | | | 43944 | 10/27/20 12:50 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 2 | SEP | Carbonate | | | 5.000 g | 25 mL | 43447 | 10/12/20 10:01 | KNC | TAL KNX |
| Step 2 | Prep | 3010A | | | 5 mL | 50 mL | 43460 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 2 | Analysis | 6010B SEP | | 3 | | | 43944 | 10/27/20 14:31 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 3 | SEP | Non-Crystalline | | | 5.000 g | 25 mL | 43465 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 3 | Prep | 3010A | | | 5 mL | 50 mL | 43495 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 3 | Analysis | 6010B SEP | | 1 | | | 43944 | 10/27/20 16:03 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 4 | SEP | Metal Hydroxide | | | 5.000 g | 25 mL | 43496 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 4 | Prep | 3010A | | | 5 mL | 50 mL | 43539 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 4 | Analysis | 6010B SEP | | 1 | | | 43997 | 10/28/20 12:43 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 5 | SEP | Organic-Bound | | | 5.000 g | 75 mL | 43540 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 5 | Prep | 3010A | | | 5 mL | 50 mL | 43604 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 5 | Analysis | 6010B SEP | | 5 | | | 43997 | 10/28/20 14:25 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 6 | SEP | Acid/Sulfide | | | 5.00 g | 250 mL | 43605 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 6 | Analysis | 6010B SEP | | 1 | | | 43997 | 10/28/20 15:57 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 7 | Prep | Residual | | | 1.000 g | 50 mL | 43637 | 10/20/20 08:00 | KNC | TAL KNX |
| Step 7 | Analysis | 6010B SEP | | 1 | | | 44042 | 10/29/20 12:46 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |

Client Sample ID: PB-8 135-145

Lab Sample ID: 180-109917-7

Date Collected: 07/14/20 15:15

Matrix: Solid

Date Received: 08/21/20 09:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Sum of Steps 1-7 | Analysis | 6010B SEP | | 1 | | | 44105 | 11/02/20 10:23 | DKW | TAL KNX |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: PB-8 135-145

Lab Sample ID: 180-109917-7

Date Collected: 07/14/20 15:15

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.5

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | Total | | | 1.000 g | 50 mL | 43059 | 09/28/20 08:00 | KNC | TAL KNX |
| Total/NA | Analysis | 6010B | | 1 | | | 44042 | 10/29/20 14:42 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-8 135-145

Lab Sample ID: 180-109917-7

Date Collected: 07/14/20 15:15

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.5

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Step 1 | SEP | Exchangeable | | | 5.000 g | 25 mL | 43060 | 09/28/20 08:00 | KNC | TAL KNX |
| Step 1 | Prep | 3010A | | | 5 mL | 50 mL | 43133 | 09/29/20 08:00 | KNC | TAL KNX |
| Step 1 | Analysis | 6010B SEP | | 4 | | | 43944 | 10/27/20 12:55 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 2 | SEP | Carbonate | | | 5.000 g | 25 mL | 43447 | 10/12/20 10:01 | KNC | TAL KNX |
| Step 2 | Prep | 3010A | | | 5 mL | 50 mL | 43460 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 2 | Analysis | 6010B SEP | | 3 | | | 43944 | 10/27/20 14:36 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 3 | SEP | Non-Crystalline | | | 5.000 g | 25 mL | 43465 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 3 | Prep | 3010A | | | 5 mL | 50 mL | 43495 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 3 | Analysis | 6010B SEP | | 1 | | | 43944 | 10/27/20 16:08 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 4 | SEP | Metal Hydroxide | | | 5.000 g | 25 mL | 43496 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 4 | Prep | 3010A | | | 5 mL | 50 mL | 43539 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 4 | Analysis | 6010B SEP | | 1 | | | 43997 | 10/28/20 12:48 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 5 | SEP | Organic-Bound | | | 5.000 g | 75 mL | 43540 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 5 | Prep | 3010A | | | 5 mL | 50 mL | 43604 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 5 | Analysis | 6010B SEP | | 5 | | | 43997 | 10/28/20 14:30 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 6 | SEP | Acid/Sulfide | | | 5.00 g | 250 mL | 43605 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 6 | Analysis | 6010B SEP | | 1 | | | 43997 | 10/28/20 16:02 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 7 | Prep | Residual | | | 1.000 g | 50 mL | 43637 | 10/20/20 08:00 | KNC | TAL KNX |
| Step 7 | Analysis | 6010B SEP | | 1 | | | 44042 | 10/29/20 12:52 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Analyst References:

Lab: TAL KNX

Batch Type: SEP

KNC = Kerry Collins

Batch Type: Prep

KNC = Kerry Collins

Batch Type: Analysis

DKW = Donna Wilburn

KNC = Kerry Collins

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-3 57-61

Lab Sample ID: 180-109917-1

Date Collected: 07/14/20 11:05

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.1

Method: 6010B SEP - SEP Metals (ICP) - Step 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.61 | | 10 | 0.61 | mg/Kg | ☼ | 09/29/20 08:00 | 10/27/20 12:12 | 4 |

Method: 6010B SEP - SEP Metals (ICP) - Step 2

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.45 | | 7.6 | 0.45 | mg/Kg | ☼ | 10/13/20 08:00 | 10/27/20 13:53 | 3 |

Method: 6010B SEP - SEP Metals (ICP) - Step 3

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 0.37 | J | 2.5 | 0.15 | mg/Kg | ☼ | 10/14/20 08:00 | 10/27/20 15:39 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 4

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 1.3 | J | 5.0 | 0.30 | mg/Kg | ☼ | 10/15/20 08:00 | 10/28/20 16:31 | 2 |

Method: 6010B SEP - SEP Metals (ICP) - Step 5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Lithium | 2.7 | J | 38 | 2.2 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 13:46 | 5 |

Method: 6010B SEP - SEP Metals (ICP) - Step 6

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 1.8 | J | 2.5 | 0.15 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 15:32 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 11 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/20/20 08:00 | 10/29/20 12:12 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Lithium | 17 | | 2.5 | 0.15 | mg/Kg | | | 11/02/20 10:23 | 1 |

Method: 6010B - SEP Metals (ICP) - Total

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | 17 | | 13 | 0.76 | mg/Kg | ☼ | 09/28/20 08:00 | 10/29/20 16:33 | 5 |

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-3 47-52

Lab Sample ID: 180-109917-2

Date Collected: 07/14/20 11:00

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.5

Method: 6010B SEP - SEP Metals (ICP) - Step 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.60 | | 10 | 0.60 | mg/Kg | ☼ | 09/29/20 08:00 | 10/27/20 12:17 | 4 |

Method: 6010B SEP - SEP Metals (ICP) - Step 2

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.45 | | 7.5 | 0.45 | mg/Kg | ☼ | 10/13/20 08:00 | 10/27/20 13:58 | 3 |

Method: 6010B SEP - SEP Metals (ICP) - Step 3

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 0.20 | J | 2.5 | 0.15 | mg/Kg | ☼ | 10/14/20 08:00 | 10/27/20 15:44 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 4

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 5.7 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/15/20 08:00 | 10/28/20 12:04 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Lithium | 3.1 | J | 38 | 2.2 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 13:51 | 5 |

Method: 6010B SEP - SEP Metals (ICP) - Step 6

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 4.1 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 15:37 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 10 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/20/20 08:00 | 10/29/20 12:17 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Lithium | 23 | | 2.5 | 0.15 | mg/Kg | | | 11/02/20 10:23 | 1 |

Method: 6010B - SEP Metals (ICP) - Total

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | 22 | | 13 | 0.75 | mg/Kg | ☼ | 09/28/20 08:00 | 10/29/20 16:38 | 5 |

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-4 49-59

Lab Sample ID: 180-109917-3

Date Collected: 07/14/20 12:10

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.1

Method: 6010B SEP - SEP Metals (ICP) - Step 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.61 | | 10 | 0.61 | mg/Kg | ☼ | 09/29/20 08:00 | 10/27/20 12:36 | 4 |

Method: 6010B SEP - SEP Metals (ICP) - Step 2

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.45 | | 7.6 | 0.45 | mg/Kg | ☼ | 10/13/20 08:00 | 10/27/20 14:03 | 3 |

Method: 6010B SEP - SEP Metals (ICP) - Step 3

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 0.23 | J | 2.5 | 0.15 | mg/Kg | ☼ | 10/14/20 08:00 | 10/27/20 15:49 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 4

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 8.1 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/15/20 08:00 | 10/28/20 12:28 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Lithium | 3.2 | J | 38 | 2.2 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 13:56 | 5 |

Method: 6010B SEP - SEP Metals (ICP) - Step 6

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 4.7 | J | 5.0 | 0.30 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 16:40 | 2 |

Method: 6010B SEP - SEP Metals (ICP) - Step 7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 14 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/20/20 08:00 | 10/29/20 12:32 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Lithium | 31 | | 2.5 | 0.15 | mg/Kg | | | 11/02/20 10:23 | 1 |

Method: 6010B - SEP Metals (ICP) - Total

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | 36 | | 13 | 0.76 | mg/Kg | ☼ | 09/28/20 08:00 | 10/29/20 16:43 | 5 |

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-4 64-68

Lab Sample ID: 180-109917-4

Date Collected: 07/14/20 12:15

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 98.8

Method: 6010B SEP - SEP Metals (ICP) - Step 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.61 | | 10 | 0.61 | mg/Kg | ☼ | 09/29/20 08:00 | 10/27/20 12:41 | 4 |

Method: 6010B SEP - SEP Metals (ICP) - Step 2

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 0.56 | J | 7.6 | 0.46 | mg/Kg | ☼ | 10/13/20 08:00 | 10/27/20 14:07 | 3 |

Method: 6010B SEP - SEP Metals (ICP) - Step 3

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 0.52 | J | 2.5 | 0.15 | mg/Kg | ☼ | 10/14/20 08:00 | 10/27/20 15:54 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 4

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 8.1 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/15/20 08:00 | 10/28/20 12:33 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Lithium | 3.7 | J | 38 | 2.2 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 14:00 | 5 |

Method: 6010B SEP - SEP Metals (ICP) - Step 6

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 14 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 15:47 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 10 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/20/20 08:00 | 10/29/20 12:37 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Lithium | 37 | | 2.5 | 0.15 | mg/Kg | | | 11/02/20 10:23 | 1 |

Method: 6010B - SEP Metals (ICP) - Total

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | 43 | | 13 | 0.76 | mg/Kg | ☼ | 09/28/20 08:00 | 10/29/20 16:47 | 5 |

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-4 73-80

Lab Sample ID: 180-109917-5

Date Collected: 07/14/20 12:20

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.6

Method: 6010B SEP - SEP Metals (ICP) - Step 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.60 | | 10 | 0.60 | mg/Kg | ☼ | 09/29/20 08:00 | 10/27/20 12:45 | 4 |

Method: 6010B SEP - SEP Metals (ICP) - Step 2

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.45 | | 7.5 | 0.45 | mg/Kg | ☼ | 10/13/20 08:00 | 10/27/20 14:12 | 3 |

Method: 6010B SEP - SEP Metals (ICP) - Step 3

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 0.25 | J | 2.5 | 0.15 | mg/Kg | ☼ | 10/14/20 08:00 | 10/27/20 15:58 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 4

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 6.7 | | 5.0 | 0.30 | mg/Kg | ☼ | 10/15/20 08:00 | 10/28/20 16:36 | 2 |

Method: 6010B SEP - SEP Metals (ICP) - Step 5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Lithium | 3.9 | J | 38 | 2.2 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 14:05 | 5 |

Method: 6010B SEP - SEP Metals (ICP) - Step 6

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 7.9 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 15:52 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 14 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/20/20 08:00 | 10/29/20 12:42 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Lithium | 32 | | 2.5 | 0.15 | mg/Kg | | | 11/02/20 10:23 | 1 |

Method: 6010B - SEP Metals (ICP) - Total

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | 36 | | 13 | 0.75 | mg/Kg | ☼ | 09/28/20 08:00 | 10/29/20 16:52 | 5 |

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-7 144-154

Lab Sample ID: 180-109917-6

Date Collected: 07/14/20 12:45

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.7

Method: 6010B SEP - SEP Metals (ICP) - Step 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.60 | | 10 | 0.60 | mg/Kg | ☼ | 09/29/20 08:00 | 10/27/20 12:50 | 4 |

Method: 6010B SEP - SEP Metals (ICP) - Step 2

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 0.69 | J | 7.5 | 0.45 | mg/Kg | ☼ | 10/13/20 08:00 | 10/27/20 14:31 | 3 |

Method: 6010B SEP - SEP Metals (ICP) - Step 3

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 0.57 | J | 2.5 | 0.15 | mg/Kg | ☼ | 10/14/20 08:00 | 10/27/20 16:03 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 4

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 11 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/15/20 08:00 | 10/28/20 12:43 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Lithium | 6.9 | J | 38 | 2.2 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 14:25 | 5 |

Method: 6010B SEP - SEP Metals (ICP) - Step 6

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 69 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 15:57 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 53 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/20/20 08:00 | 10/29/20 12:46 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Lithium | 140 | | 2.5 | 0.15 | mg/Kg | | | 11/02/20 10:23 | 1 |

Method: 6010B - SEP Metals (ICP) - Total

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 130 | | 2.5 | 0.15 | mg/Kg | ☼ | 09/28/20 08:00 | 10/29/20 14:36 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-8 135-145

Lab Sample ID: 180-109917-7

Date Collected: 07/14/20 15:15

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.5

Method: 6010B SEP - SEP Metals (ICP) - Step 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.60 | | 10 | 0.60 | mg/Kg | ☼ | 09/29/20 08:00 | 10/27/20 12:55 | 4 |

Method: 6010B SEP - SEP Metals (ICP) - Step 2

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 0.63 | J | 7.5 | 0.45 | mg/Kg | ☼ | 10/13/20 08:00 | 10/27/20 14:36 | 3 |

Method: 6010B SEP - SEP Metals (ICP) - Step 3

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 0.34 | J | 2.5 | 0.15 | mg/Kg | ☼ | 10/14/20 08:00 | 10/27/20 16:08 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 4

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 2.3 | J | 2.5 | 0.15 | mg/Kg | ☼ | 10/15/20 08:00 | 10/28/20 12:48 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Lithium | 2.6 | J | 38 | 2.2 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 14:30 | 5 |

Method: 6010B SEP - SEP Metals (ICP) - Step 6

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 35 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 16:02 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 18 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/20/20 08:00 | 10/29/20 12:52 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Lithium | 59 | | 2.5 | 0.15 | mg/Kg | | | 11/02/20 10:23 | 1 |

Method: 6010B - SEP Metals (ICP) - Total

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 53 | | 2.5 | 0.15 | mg/Kg | ☼ | 09/28/20 08:00 | 10/29/20 14:42 | 1 |

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Method: 6010B - SEP Metals (ICP) - Total

Lab Sample ID: MB 140-43059/14-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43059

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 09/28/20 08:00 | 10/29/20 10:56 | 1 |

Lab Sample ID: LCS 140-43059/15-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43059

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.17 | | mg/Kg | | 103 | 75 - 125 |

Lab Sample ID: LCSD 140-43059/16-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43059

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 5.03 | | mg/Kg | | 101 | 75 - 125 | 3 | 30 |

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-43060/14-B ^4
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 1
Prep Batch: 43133

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.60 | | 10 | 0.60 | mg/Kg | | 09/29/20 08:00 | 10/27/20 11:39 | 4 |

Lab Sample ID: LCS 140-43060/15-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 1
Prep Batch: 43133

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.09 | J | mg/Kg | | 102 | 75 - 125 |

Lab Sample ID: LCSD 140-43060/16-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 43133

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 4.61 | J | mg/Kg | | 92 | 75 - 125 | 10 | 30 |

Lab Sample ID: MB 140-43447/14-B ^3
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 2
Prep Batch: 43460

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.45 | | 7.5 | 0.45 | mg/Kg | | 10/13/20 08:00 | 10/27/20 13:09 | 3 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-43447/15-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 2
Prep Batch: 43460

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 4.57 | J | mg/Kg | | 91 | 75 - 125 |

Lab Sample ID: LCSD 140-43447/16-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 2
Prep Batch: 43460

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 4.38 | J | mg/Kg | | 88 | 75 - 125 | 4 | 30 |

Lab Sample ID: MB 140-43465/14-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 3
Prep Batch: 43495

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 10/14/20 08:00 | 10/27/20 14:51 | 1 |

Lab Sample ID: LCS 140-43465/15-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 43495

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.29 | | mg/Kg | | 106 | 75 - 125 |

Lab Sample ID: LCSD 140-43465/16-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 3
Prep Batch: 43495

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 5.17 | | mg/Kg | | 103 | 75 - 125 | 2 | 30 |

Lab Sample ID: MB 140-43496/14-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 4
Prep Batch: 43539

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 10/15/20 08:00 | 10/28/20 11:26 | 1 |

Lab Sample ID: LCS 140-43496/15-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 43539

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.32 | | mg/Kg | | 106 | 75 - 125 |

Lab Sample ID: LCSD 140-43496/16-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 4
Prep Batch: 43539

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 5.20 | | mg/Kg | | 104 | 75 - 125 | 2 | 30 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-43540/14-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 5
Prep Batch: 43604

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|----|-----|-------|---|----------------|----------------|---------|
| Lithium | <2.2 | | 38 | 2.2 | mg/Kg | | 10/19/20 08:00 | 10/28/20 13:02 | 5 |

Lab Sample ID: LCS 140-43540/15-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 5
Prep Batch: 43604

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 15.0 | 16.4 | J | mg/Kg | | 109 | 75 - 125 |

Lab Sample ID: LCSD 140-43540/16-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 5
Prep Batch: 43604

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 15.0 | 17.4 | J | mg/Kg | | 116 | 75 - 125 | 6 | 30 |

Lab Sample ID: MB 140-43605/14-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 43605

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 10/19/20 08:00 | 10/28/20 14:45 | 1 |

Lab Sample ID: LCS 140-43605/15-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 6
Prep Batch: 43605

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 4.96 | | mg/Kg | | 99 | 75 - 125 |

Lab Sample ID: LCSD 140-43605/16-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 6
Prep Batch: 43605

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 5.03 | | mg/Kg | | 101 | 75 - 125 | 1 | 30 |

Lab Sample ID: MB 140-43637/14-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Method Blank
Prep Type: Step 7
Prep Batch: 43637

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 10/20/20 08:00 | 10/29/20 10:42 | 1 |

Lab Sample ID: LCS 140-43637/15-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample
Prep Type: Step 7
Prep Batch: 43637

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.04 | | mg/Kg | | 101 | 75 - 125 |

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: LCSD 140-43637/16-A
 Matrix: Solid
 Analysis Batch: 44042

Client Sample ID: Lab Control Sample Dup
 Prep Type: Step 7
 Prep Batch: 43637

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. | | RPD | |
|---------|-------------|-------------|----------------|-------|---|------|----------|-----|-----|-------|
| | | | | | | | Limits | RPD | RPD | Limit |
| Lithium | 5.00 | 5.05 | | mg/Kg | | 101 | 75 - 125 | 0 | | 30 |

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Metals

Prep Batch: 43059

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 180-109917-1 | PB-3 57-61 | Total/NA | Solid | Total | |
| 180-109917-2 | PB-3 47-52 | Total/NA | Solid | Total | |
| 180-109917-3 | PB-4 49-59 | Total/NA | Solid | Total | |
| 180-109917-4 | PB-4 64-68 | Total/NA | Solid | Total | |
| 180-109917-5 | PB-4 73-80 | Total/NA | Solid | Total | |
| 180-109917-6 | PB-7 144-154 | Total/NA | Solid | Total | |
| 180-109917-7 | PB-8 135-145 | Total/NA | Solid | Total | |
| MB 140-43059/14-A | Method Blank | Total/NA | Solid | Total | |
| LCS 140-43059/15-A | Lab Control Sample | Total/NA | Solid | Total | |
| LCSD 140-43059/16-A | Lab Control Sample Dup | Total/NA | Solid | Total | |

SEP Batch: 43060

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|--------------|------------|
| 180-109917-1 | PB-3 57-61 | Step 1 | Solid | Exchangeable | |
| 180-109917-2 | PB-3 47-52 | Step 1 | Solid | Exchangeable | |
| 180-109917-3 | PB-4 49-59 | Step 1 | Solid | Exchangeable | |
| 180-109917-4 | PB-4 64-68 | Step 1 | Solid | Exchangeable | |
| 180-109917-5 | PB-4 73-80 | Step 1 | Solid | Exchangeable | |
| 180-109917-6 | PB-7 144-154 | Step 1 | Solid | Exchangeable | |
| 180-109917-7 | PB-8 135-145 | Step 1 | Solid | Exchangeable | |
| MB 140-43060/14-B ^4 | Method Blank | Step 1 | Solid | Exchangeable | |
| LCS 140-43060/15-B ^5 | Lab Control Sample | Step 1 | Solid | Exchangeable | |
| LCSD 140-43060/16-B ^5 | Lab Control Sample Dup | Step 1 | Solid | Exchangeable | |

Prep Batch: 43133

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|--------|------------|
| 180-109917-1 | PB-3 57-61 | Step 1 | Solid | 3010A | 43060 |
| 180-109917-2 | PB-3 47-52 | Step 1 | Solid | 3010A | 43060 |
| 180-109917-3 | PB-4 49-59 | Step 1 | Solid | 3010A | 43060 |
| 180-109917-4 | PB-4 64-68 | Step 1 | Solid | 3010A | 43060 |
| 180-109917-5 | PB-4 73-80 | Step 1 | Solid | 3010A | 43060 |
| 180-109917-6 | PB-7 144-154 | Step 1 | Solid | 3010A | 43060 |
| 180-109917-7 | PB-8 135-145 | Step 1 | Solid | 3010A | 43060 |
| MB 140-43060/14-B ^4 | Method Blank | Step 1 | Solid | 3010A | 43060 |
| LCS 140-43060/15-B ^5 | Lab Control Sample | Step 1 | Solid | 3010A | 43060 |
| LCSD 140-43060/16-B ^5 | Lab Control Sample Dup | Step 1 | Solid | 3010A | 43060 |

SEP Batch: 43447

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|-----------|------------|
| 180-109917-1 | PB-3 57-61 | Step 2 | Solid | Carbonate | |
| 180-109917-2 | PB-3 47-52 | Step 2 | Solid | Carbonate | |
| 180-109917-3 | PB-4 49-59 | Step 2 | Solid | Carbonate | |
| 180-109917-4 | PB-4 64-68 | Step 2 | Solid | Carbonate | |
| 180-109917-5 | PB-4 73-80 | Step 2 | Solid | Carbonate | |
| 180-109917-6 | PB-7 144-154 | Step 2 | Solid | Carbonate | |
| 180-109917-7 | PB-8 135-145 | Step 2 | Solid | Carbonate | |
| MB 140-43447/14-B ^3 | Method Blank | Step 2 | Solid | Carbonate | |
| LCS 140-43447/15-B ^5 | Lab Control Sample | Step 2 | Solid | Carbonate | |
| LCSD 140-43447/16-B ^5 | Lab Control Sample Dup | Step 2 | Solid | Carbonate | |

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Metals

Prep Batch: 43460

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|--------|------------|
| 180-109917-1 | PB-3 57-61 | Step 2 | Solid | 3010A | 43447 |
| 180-109917-2 | PB-3 47-52 | Step 2 | Solid | 3010A | 43447 |
| 180-109917-3 | PB-4 49-59 | Step 2 | Solid | 3010A | 43447 |
| 180-109917-4 | PB-4 64-68 | Step 2 | Solid | 3010A | 43447 |
| 180-109917-5 | PB-4 73-80 | Step 2 | Solid | 3010A | 43447 |
| 180-109917-6 | PB-7 144-154 | Step 2 | Solid | 3010A | 43447 |
| 180-109917-7 | PB-8 135-145 | Step 2 | Solid | 3010A | 43447 |
| MB 140-43447/14-B ^3 | Method Blank | Step 2 | Solid | 3010A | 43447 |
| LCS 140-43447/15-B ^5 | Lab Control Sample | Step 2 | Solid | 3010A | 43447 |
| LCSD 140-43447/16-B ^5 | Lab Control Sample Dup | Step 2 | Solid | 3010A | 43447 |

SEP Batch: 43465

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------------|------------|
| 180-109917-1 | PB-3 57-61 | Step 3 | Solid | Non-Crystalline | |
| 180-109917-2 | PB-3 47-52 | Step 3 | Solid | Non-Crystalline | |
| 180-109917-3 | PB-4 49-59 | Step 3 | Solid | Non-Crystalline | |
| 180-109917-4 | PB-4 64-68 | Step 3 | Solid | Non-Crystalline | |
| 180-109917-5 | PB-4 73-80 | Step 3 | Solid | Non-Crystalline | |
| 180-109917-6 | PB-7 144-154 | Step 3 | Solid | Non-Crystalline | |
| 180-109917-7 | PB-8 135-145 | Step 3 | Solid | Non-Crystalline | |
| MB 140-43465/14-B | Method Blank | Step 3 | Solid | Non-Crystalline | |
| LCS 140-43465/15-B | Lab Control Sample | Step 3 | Solid | Non-Crystalline | |
| LCSD 140-43465/16-B | Lab Control Sample Dup | Step 3 | Solid | Non-Crystalline | |

Prep Batch: 43495

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 180-109917-1 | PB-3 57-61 | Step 3 | Solid | 3010A | 43465 |
| 180-109917-2 | PB-3 47-52 | Step 3 | Solid | 3010A | 43465 |
| 180-109917-3 | PB-4 49-59 | Step 3 | Solid | 3010A | 43465 |
| 180-109917-4 | PB-4 64-68 | Step 3 | Solid | 3010A | 43465 |
| 180-109917-5 | PB-4 73-80 | Step 3 | Solid | 3010A | 43465 |
| 180-109917-6 | PB-7 144-154 | Step 3 | Solid | 3010A | 43465 |
| 180-109917-7 | PB-8 135-145 | Step 3 | Solid | 3010A | 43465 |
| MB 140-43465/14-B | Method Blank | Step 3 | Solid | 3010A | 43465 |
| LCS 140-43465/15-B | Lab Control Sample | Step 3 | Solid | 3010A | 43465 |
| LCSD 140-43465/16-B | Lab Control Sample Dup | Step 3 | Solid | 3010A | 43465 |

SEP Batch: 43496

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------------|------------|
| 180-109917-1 | PB-3 57-61 | Step 4 | Solid | Metal Hydroxide | |
| 180-109917-2 | PB-3 47-52 | Step 4 | Solid | Metal Hydroxide | |
| 180-109917-3 | PB-4 49-59 | Step 4 | Solid | Metal Hydroxide | |
| 180-109917-4 | PB-4 64-68 | Step 4 | Solid | Metal Hydroxide | |
| 180-109917-5 | PB-4 73-80 | Step 4 | Solid | Metal Hydroxide | |
| 180-109917-6 | PB-7 144-154 | Step 4 | Solid | Metal Hydroxide | |
| 180-109917-7 | PB-8 135-145 | Step 4 | Solid | Metal Hydroxide | |
| MB 140-43496/14-B | Method Blank | Step 4 | Solid | Metal Hydroxide | |
| LCS 140-43496/15-B | Lab Control Sample | Step 4 | Solid | Metal Hydroxide | |
| LCSD 140-43496/16-B | Lab Control Sample Dup | Step 4 | Solid | Metal Hydroxide | |

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Metals

Prep Batch: 43539

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 180-109917-1 | PB-3 57-61 | Step 4 | Solid | 3010A | 43496 |
| 180-109917-2 | PB-3 47-52 | Step 4 | Solid | 3010A | 43496 |
| 180-109917-3 | PB-4 49-59 | Step 4 | Solid | 3010A | 43496 |
| 180-109917-4 | PB-4 64-68 | Step 4 | Solid | 3010A | 43496 |
| 180-109917-5 | PB-4 73-80 | Step 4 | Solid | 3010A | 43496 |
| 180-109917-6 | PB-7 144-154 | Step 4 | Solid | 3010A | 43496 |
| 180-109917-7 | PB-8 135-145 | Step 4 | Solid | 3010A | 43496 |
| MB 140-43496/14-B | Method Blank | Step 4 | Solid | 3010A | 43496 |
| LCS 140-43496/15-B | Lab Control Sample | Step 4 | Solid | 3010A | 43496 |
| LCSD 140-43496/16-B | Lab Control Sample Dup | Step 4 | Solid | 3010A | 43496 |

SEP Batch: 43540

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|---------------|------------|
| 180-109917-1 | PB-3 57-61 | Step 5 | Solid | Organic-Bound | |
| 180-109917-2 | PB-3 47-52 | Step 5 | Solid | Organic-Bound | |
| 180-109917-3 | PB-4 49-59 | Step 5 | Solid | Organic-Bound | |
| 180-109917-4 | PB-4 64-68 | Step 5 | Solid | Organic-Bound | |
| 180-109917-5 | PB-4 73-80 | Step 5 | Solid | Organic-Bound | |
| 180-109917-6 | PB-7 144-154 | Step 5 | Solid | Organic-Bound | |
| 180-109917-7 | PB-8 135-145 | Step 5 | Solid | Organic-Bound | |
| MB 140-43540/14-B ^5 | Method Blank | Step 5 | Solid | Organic-Bound | |
| LCS 140-43540/15-B ^5 | Lab Control Sample | Step 5 | Solid | Organic-Bound | |
| LCSD 140-43540/16-B ^5 | Lab Control Sample Dup | Step 5 | Solid | Organic-Bound | |

Prep Batch: 43604

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|--------|------------|
| 180-109917-1 | PB-3 57-61 | Step 5 | Solid | 3010A | 43540 |
| 180-109917-2 | PB-3 47-52 | Step 5 | Solid | 3010A | 43540 |
| 180-109917-3 | PB-4 49-59 | Step 5 | Solid | 3010A | 43540 |
| 180-109917-4 | PB-4 64-68 | Step 5 | Solid | 3010A | 43540 |
| 180-109917-5 | PB-4 73-80 | Step 5 | Solid | 3010A | 43540 |
| 180-109917-6 | PB-7 144-154 | Step 5 | Solid | 3010A | 43540 |
| 180-109917-7 | PB-8 135-145 | Step 5 | Solid | 3010A | 43540 |
| MB 140-43540/14-B ^5 | Method Blank | Step 5 | Solid | 3010A | 43540 |
| LCS 140-43540/15-B ^5 | Lab Control Sample | Step 5 | Solid | 3010A | 43540 |
| LCSD 140-43540/16-B ^5 | Lab Control Sample Dup | Step 5 | Solid | 3010A | 43540 |

SEP Batch: 43605

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------------|------------|
| 180-109917-1 | PB-3 57-61 | Step 6 | Solid | Acid/Sulfide | |
| 180-109917-2 | PB-3 47-52 | Step 6 | Solid | Acid/Sulfide | |
| 180-109917-3 | PB-4 49-59 | Step 6 | Solid | Acid/Sulfide | |
| 180-109917-4 | PB-4 64-68 | Step 6 | Solid | Acid/Sulfide | |
| 180-109917-5 | PB-4 73-80 | Step 6 | Solid | Acid/Sulfide | |
| 180-109917-6 | PB-7 144-154 | Step 6 | Solid | Acid/Sulfide | |
| 180-109917-7 | PB-8 135-145 | Step 6 | Solid | Acid/Sulfide | |
| MB 140-43605/14-A | Method Blank | Step 6 | Solid | Acid/Sulfide | |
| LCS 140-43605/15-A | Lab Control Sample | Step 6 | Solid | Acid/Sulfide | |
| LCSD 140-43605/16-A | Lab Control Sample Dup | Step 6 | Solid | Acid/Sulfide | |

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Metals

Prep Batch: 43637

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 180-109917-1 | PB-3 57-61 | Step 7 | Solid | Residual | |
| 180-109917-2 | PB-3 47-52 | Step 7 | Solid | Residual | |
| 180-109917-3 | PB-4 49-59 | Step 7 | Solid | Residual | |
| 180-109917-4 | PB-4 64-68 | Step 7 | Solid | Residual | |
| 180-109917-5 | PB-4 73-80 | Step 7 | Solid | Residual | |
| 180-109917-6 | PB-7 144-154 | Step 7 | Solid | Residual | |
| 180-109917-7 | PB-8 135-145 | Step 7 | Solid | Residual | |
| MB 140-43637/14-A | Method Blank | Step 7 | Solid | Residual | |
| LCS 140-43637/15-A | Lab Control Sample | Step 7 | Solid | Residual | |
| LCSD 140-43637/16-A | Lab Control Sample Dup | Step 7 | Solid | Residual | |

Analysis Batch: 43944

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|-----------|------------|
| 180-109917-1 | PB-3 57-61 | Step 1 | Solid | 6010B SEP | 43133 |
| 180-109917-1 | PB-3 57-61 | Step 2 | Solid | 6010B SEP | 43460 |
| 180-109917-1 | PB-3 57-61 | Step 3 | Solid | 6010B SEP | 43495 |
| 180-109917-2 | PB-3 47-52 | Step 1 | Solid | 6010B SEP | 43133 |
| 180-109917-2 | PB-3 47-52 | Step 2 | Solid | 6010B SEP | 43460 |
| 180-109917-2 | PB-3 47-52 | Step 3 | Solid | 6010B SEP | 43495 |
| 180-109917-3 | PB-4 49-59 | Step 1 | Solid | 6010B SEP | 43133 |
| 180-109917-3 | PB-4 49-59 | Step 2 | Solid | 6010B SEP | 43460 |
| 180-109917-3 | PB-4 49-59 | Step 3 | Solid | 6010B SEP | 43495 |
| 180-109917-4 | PB-4 64-68 | Step 1 | Solid | 6010B SEP | 43133 |
| 180-109917-4 | PB-4 64-68 | Step 2 | Solid | 6010B SEP | 43460 |
| 180-109917-4 | PB-4 64-68 | Step 3 | Solid | 6010B SEP | 43495 |
| 180-109917-5 | PB-4 73-80 | Step 1 | Solid | 6010B SEP | 43133 |
| 180-109917-5 | PB-4 73-80 | Step 2 | Solid | 6010B SEP | 43460 |
| 180-109917-5 | PB-4 73-80 | Step 3 | Solid | 6010B SEP | 43495 |
| 180-109917-6 | PB-7 144-154 | Step 1 | Solid | 6010B SEP | 43133 |
| 180-109917-6 | PB-7 144-154 | Step 2 | Solid | 6010B SEP | 43460 |
| 180-109917-6 | PB-7 144-154 | Step 3 | Solid | 6010B SEP | 43495 |
| 180-109917-7 | PB-8 135-145 | Step 1 | Solid | 6010B SEP | 43133 |
| 180-109917-7 | PB-8 135-145 | Step 2 | Solid | 6010B SEP | 43460 |
| 180-109917-7 | PB-8 135-145 | Step 3 | Solid | 6010B SEP | 43495 |
| MB 140-43060/14-B ^4 | Method Blank | Step 1 | Solid | 6010B SEP | 43133 |
| MB 140-43447/14-B ^3 | Method Blank | Step 2 | Solid | 6010B SEP | 43460 |
| MB 140-43465/14-B | Method Blank | Step 3 | Solid | 6010B SEP | 43495 |
| LCS 140-43060/15-B ^5 | Lab Control Sample | Step 1 | Solid | 6010B SEP | 43133 |
| LCS 140-43447/15-B ^5 | Lab Control Sample | Step 2 | Solid | 6010B SEP | 43460 |
| LCS 140-43465/15-B | Lab Control Sample | Step 3 | Solid | 6010B SEP | 43495 |
| LCSD 140-43060/16-B ^5 | Lab Control Sample Dup | Step 1 | Solid | 6010B SEP | 43133 |
| LCSD 140-43447/16-B ^5 | Lab Control Sample Dup | Step 2 | Solid | 6010B SEP | 43460 |
| LCSD 140-43465/16-B | Lab Control Sample Dup | Step 3 | Solid | 6010B SEP | 43495 |

Analysis Batch: 43997

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-----------|------------|
| 180-109917-1 | PB-3 57-61 | Step 4 | Solid | 6010B SEP | 43539 |
| 180-109917-1 | PB-3 57-61 | Step 5 | Solid | 6010B SEP | 43604 |
| 180-109917-1 | PB-3 57-61 | Step 6 | Solid | 6010B SEP | 43605 |
| 180-109917-2 | PB-3 47-52 | Step 4 | Solid | 6010B SEP | 43539 |
| 180-109917-2 | PB-3 47-52 | Step 5 | Solid | 6010B SEP | 43604 |

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Metals (Continued)

Analysis Batch: 43997 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|-----------|------------|
| 180-109917-2 | PB-3 47-52 | Step 6 | Solid | 6010B SEP | 43605 |
| 180-109917-3 | PB-4 49-59 | Step 4 | Solid | 6010B SEP | 43539 |
| 180-109917-3 | PB-4 49-59 | Step 5 | Solid | 6010B SEP | 43604 |
| 180-109917-3 | PB-4 49-59 | Step 6 | Solid | 6010B SEP | 43605 |
| 180-109917-4 | PB-4 64-68 | Step 4 | Solid | 6010B SEP | 43539 |
| 180-109917-4 | PB-4 64-68 | Step 5 | Solid | 6010B SEP | 43604 |
| 180-109917-4 | PB-4 64-68 | Step 6 | Solid | 6010B SEP | 43605 |
| 180-109917-5 | PB-4 73-80 | Step 4 | Solid | 6010B SEP | 43539 |
| 180-109917-5 | PB-4 73-80 | Step 5 | Solid | 6010B SEP | 43604 |
| 180-109917-5 | PB-4 73-80 | Step 6 | Solid | 6010B SEP | 43605 |
| 180-109917-6 | PB-7 144-154 | Step 4 | Solid | 6010B SEP | 43539 |
| 180-109917-6 | PB-7 144-154 | Step 5 | Solid | 6010B SEP | 43604 |
| 180-109917-6 | PB-7 144-154 | Step 6 | Solid | 6010B SEP | 43605 |
| 180-109917-7 | PB-8 135-145 | Step 4 | Solid | 6010B SEP | 43539 |
| 180-109917-7 | PB-8 135-145 | Step 5 | Solid | 6010B SEP | 43604 |
| 180-109917-7 | PB-8 135-145 | Step 6 | Solid | 6010B SEP | 43605 |
| MB 140-43496/14-B | Method Blank | Step 4 | Solid | 6010B SEP | 43539 |
| MB 140-43540/14-B ^5 | Method Blank | Step 5 | Solid | 6010B SEP | 43604 |
| MB 140-43605/14-A | Method Blank | Step 6 | Solid | 6010B SEP | 43605 |
| LCS 140-43496/15-B | Lab Control Sample | Step 4 | Solid | 6010B SEP | 43539 |
| LCS 140-43540/15-B ^5 | Lab Control Sample | Step 5 | Solid | 6010B SEP | 43604 |
| LCS 140-43605/15-A | Lab Control Sample | Step 6 | Solid | 6010B SEP | 43605 |
| LCSD 140-43496/16-B | Lab Control Sample Dup | Step 4 | Solid | 6010B SEP | 43539 |
| LCSD 140-43540/16-B ^5 | Lab Control Sample Dup | Step 5 | Solid | 6010B SEP | 43604 |
| LCSD 140-43605/16-A | Lab Control Sample Dup | Step 6 | Solid | 6010B SEP | 43605 |

Analysis Batch: 44042

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 180-109917-1 | PB-3 57-61 | Step 7 | Solid | 6010B SEP | 43637 |
| 180-109917-1 | PB-3 57-61 | Total/NA | Solid | 6010B | 43059 |
| 180-109917-2 | PB-3 47-52 | Step 7 | Solid | 6010B SEP | 43637 |
| 180-109917-2 | PB-3 47-52 | Total/NA | Solid | 6010B | 43059 |
| 180-109917-3 | PB-4 49-59 | Step 7 | Solid | 6010B SEP | 43637 |
| 180-109917-3 | PB-4 49-59 | Total/NA | Solid | 6010B | 43059 |
| 180-109917-4 | PB-4 64-68 | Step 7 | Solid | 6010B SEP | 43637 |
| 180-109917-4 | PB-4 64-68 | Total/NA | Solid | 6010B | 43059 |
| 180-109917-5 | PB-4 73-80 | Step 7 | Solid | 6010B SEP | 43637 |
| 180-109917-5 | PB-4 73-80 | Total/NA | Solid | 6010B | 43059 |
| 180-109917-6 | PB-7 144-154 | Step 7 | Solid | 6010B SEP | 43637 |
| 180-109917-6 | PB-7 144-154 | Total/NA | Solid | 6010B | 43059 |
| 180-109917-7 | PB-8 135-145 | Step 7 | Solid | 6010B SEP | 43637 |
| 180-109917-7 | PB-8 135-145 | Total/NA | Solid | 6010B | 43059 |
| MB 140-43059/14-A | Method Blank | Total/NA | Solid | 6010B | 43059 |
| MB 140-43637/14-A | Method Blank | Step 7 | Solid | 6010B SEP | 43637 |
| LCS 140-43059/15-A | Lab Control Sample | Total/NA | Solid | 6010B | 43059 |
| LCS 140-43637/15-A | Lab Control Sample | Step 7 | Solid | 6010B SEP | 43637 |
| LCSD 140-43059/16-A | Lab Control Sample Dup | Total/NA | Solid | 6010B | 43059 |
| LCSD 140-43637/16-A | Lab Control Sample Dup | Step 7 | Solid | 6010B SEP | 43637 |

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Metals


Analysis Batch: 44105

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|------------------|--------|-----------|------------|
| 180-109917-1 | PB-3 57-61 | Sum of Steps 1-7 | Solid | 6010B SEP | |
| 180-109917-2 | PB-3 47-52 | Sum of Steps 1-7 | Solid | 6010B SEP | |
| 180-109917-3 | PB-4 49-59 | Sum of Steps 1-7 | Solid | 6010B SEP | |
| 180-109917-4 | PB-4 64-68 | Sum of Steps 1-7 | Solid | 6010B SEP | |
| 180-109917-5 | PB-4 73-80 | Sum of Steps 1-7 | Solid | 6010B SEP | |
| 180-109917-6 | PB-7 144-154 | Sum of Steps 1-7 | Solid | 6010B SEP | |
| 180-109917-7 | PB-8 135-145 | Sum of Steps 1-7 | Solid | 6010B SEP | |



4.4/15.3 Chain of Custody Record

4101 Shuffel Street NW
 North Canton, OH 44720-6900
 Phone (330) 497-9396

| | | | | | |
|---|--|---|--|----------------------------|--|
| Client Information Address: 1255 Roberts Blvd NW, Suite 200 City: Kennesaw State, Zip: GA 30144 Phone: 678-202-9564 Email: areimer@geosyntec.com Project Name: GW7327 Site: Plant Wansley AP1 | | Lab PM: Brown, Shali E-Mail: shali.brown@testamericainc.com Carrier Tracking No(s): Job #: | | COC No: Page: Job #: | |
| Analysis Requested | | | | | |
| Preservation Codes: M - Hexane A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) | | | | | |
| 180-109917 Chain of Custody | | | | | |
|  | | | | | |
| 6020 Lithium | | | | | |
| Particle Size Reduction | | | | | |
| Perform MS/MSD (Yes or No) | | | | | |
| Field Filtered Sample (Yes or No) | | | | | |
| Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A-Air) | | | | | |
| Sample Type (C=comp, G=grab) | | | | | |
| Preservation Code: | | | | | |
| Sample Date | | | | | |
| Sample Time | | | | | |
| Due Date Requested: NLT 7/22/2020 TAT Requested (days): 3 day RUSH | | | | | |
| PO #: | | | | | |
| WO #: | | | | | |
| Project #: | | | | | |
| SSOW#: | | | | | |
| Sample Identification | | | | | |
| PB-3 357-61 PB-3 347-52 PB-4 49-59 PB-4 64-68 PB-4 73-80 PB-7 144-154 PB-8 135-145 | | | | | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | |
| Deliverable Requested: <input checked="" type="checkbox"/> II, IV, Other (specify) | | | | | |
| Empty Kit Relinquished by: | | | | | |
| Relinquished by: [Signature] Date: 7/14/20 Time: 11:05 Relinquished by: [Signature] Date: 8-20-20 Time: 12:30 Relinquished by: [Signature] Date: 8-20-20 Time: 12:30 | | | | | |
| 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 2 Months | | | | | |
| Special Instructions/QC Requirements: see special note above | | | | | |
| Method of Shipment: | | | | | |
| Date/Time: 7-15-20 1010 Date/Time: 8/21/20 0945 Date/Time: | | | | | |
| Company: [Signature] Company: [Signature] Company: [Signature] | | | | | |
| Cooler Temperature(s) °C and Other Remarks: | | | | | |



Martin, Aaron

From: Brown, Shali
Sent: Thursday, August 20, 2020 3:59 PM
To: Martin, Aaron
Subject: 240-133223-1 and 240-133409-1 need these samples sent to Pittsburg please and thank you
Attachments: COC 240-133409 (202007151152).pdf; COC 240-133223 (202007101623).pdf

240-133223-1 and 240-133409-1 need these samples sent to Pittsburg
They should already be crushed (PSR was for whole sample).
Relinquish using the original COC's if possible. If not, I have included a copy of COC for each job.

133223 one sample plastic bag and soil jar C229

133409 seven samples plastic bag all in C238

If not too much trouble.... Can you eyeball about how much sample you have of each one?

Thank You!!
Shali

Please note our adjusted schedule for Labor Day >>

COMMUNICATIONS ALERT: Change of email addresses for all Eurofins TestAmerica staff effective July 9, 2020

Please update my email address Shali.Brown@eurofinset.com in your email directory!

Shali Brown
Project Manager

Eurofins TestAmerica
500 Wilson Pike Circle Suite 100
Brentwood, TN 37027
USA

Phone: 615-301-5031

E-mail: shali.brown@eurofinset.com

www.EurofinsUS.com | www.TestAmericainc.com | [Facebook](#) | [LinkedIn](#)

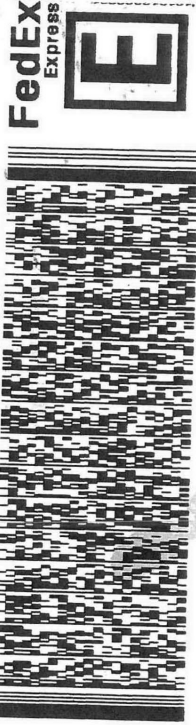
TestAmerica

ORIGIN ID: PHDA (330) 312-0176
EUROFINS TESTAMERICA CANTON
4101 SHUFFEL STREET NA
NORTH CANTON, OH 447206900
UNITED STATES US

SHIP DATE: 20AUG20
ACTWGT: 59.50 LB
CAD: 0562057/CAFE3313

BILL RECIPIENT

TO ENVIRONMENTAL SAMPLE RECEIPT
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
DEPT: AL HAIDET



FRI - 21 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 9148 7501 0859
0201

65 AGCA

15238
PA-US PIT

Uncorrected Temp
Thermometer ID

CF 0

Initials B

PT-WI-SR-001 effective 11/8/18



180-109917 Waybill

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

Eurofins TestAmerica, Pittsburgh

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

Chain of Custody Record

irofins Environment Testing
America



180-109917 Chain of Custody

| | | | |
|---|------------------------|---|--|
| Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 5815 Middlebrook Pike, City: Knoxville State, Zip: TN, 37921 Phone: 865-291-3000(Tel) 865-584-4315(Fax) Email: | | Lab P/N: Brown, Shail E-Mail: Shail.Brown@Eurofinset.com State of Origin: Georgia Page 1 of 1 Job #: 180-109917-1 | |
| Due Date Requested: 10/13/2020 TAT Requested (days): | | Accreditations Required (See note): | |
| PO #: WO #: Project #: 18019922 Site: Wansley CCR | | 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: | |
| Analysis Requested | | | |
| Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> | | Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> | |
| Total Number of Containers | | Special Instructions/Note: | |
| Sample Identification - Client ID (Lab ID) PB-3 57-61 (180-109917-1) | Sample Date 7/14/20 | Sample Time 11:05 Eastern | Matrix (W=Water, S=Solid, O=Swab/soil, BT=Butter, A=Air) Solid |
| PB-3 47-52 (180-109917-2) | 7/14/20 | 11:00 Eastern | Solid |
| PB-4 49-59 (180-109917-3) | 7/14/20 | 12:10 Eastern | Solid |
| PB-4 64-68 (180-109917-4) | 7/14/20 | 12:15 Eastern | Solid |
| PB-4 73-80 (180-109917-5) | 7/14/20 | 12:20 Eastern | Solid |
| PB-7 144-154 (180-109917-6) | 7/14/20 | 12:45 Eastern | Solid |
| PB-8 135-145 (180-109917-7) | 7/14/20 | 15:15 Eastern | Solid |
| Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica. | | | |
| Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | | | |
| Empty Kit Relinquished by: | | | |
| Relinquished by: <i>Matthew Jool</i> | | Date/Time: 9/11/20 1700 | |
| Relinquished by: | | Date/Time: | |
| Relinquished by: | | Date/Time: | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Cooler Temperature(s) °C and Other Remarks: | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | |
| Special Instructions/QC Requirements: | | | |
| Time: | | Method of Shipment: | |
| Received by: <i>ETA P-H</i> | | Date/Time: 9/12/20 0906 | |
| Received by: | | Date/Time: | |
| Received by: | | Date/Time: | |
| Company: <i>ETA</i> | | Company: | |
| Company: | | Company: | |



EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

| Review Items | Yes | No | NA | If No, what was the problem? | Comments/Actions Taken |
|--|-----|----|----|---|---|
| 1. Are the shipping containers intact? | / | | | <input type="checkbox"/> Containers, Broken | |
| 2. Were ambient air containers received intact? | / | | | <input type="checkbox"/> Checked in lab | |
| 3. The coolers/containers custody seal if present, is it intact? | / | | | <input type="checkbox"/> Yes <input type="checkbox"/> NA | BT: 3.0°C CT: 3.0°C / Cooler Cooled by cool in bag TK# 168, 5103 7/19 HW 9/12/20 |
| 4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VQST: 10°C) Thermometer ID: <u>SC68</u> Correction factor: <u>0.0</u> | / | | | <input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt | |
| 5. Were all of the sample containers received intact? | / | | | <input type="checkbox"/> Containers, Broken | |
| 6. Were samples received in appropriate containers? | / | | | <input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel | |
| 7. Do sample container labels match COC? (IDs, Dates, Times) | / | | | <input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received | |
| 8. Were all of the samples listed on the COC received? | / | | | <input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received | |
| 9. Is the date/time of sample collection noted? | / | | | <input type="checkbox"/> COC; No Date/Time; Client Contacted | Labeling Verified by: _____ Date: _____ |
| 10. Was the sampler identified on the COC? | / | | | <input type="checkbox"/> Sampler Not Listed on COC | |
| 11. Is the client and project name/# identified? | / | | | <input type="checkbox"/> COC Incorrect/Incomplete | |
| 12. Are tests/parameters listed for each sample? | / | | | <input type="checkbox"/> COC No tests on COC | pH test strip lot number: _____ |
| 13. Is the matrix of the samples noted? | / | | | <input type="checkbox"/> COC Incorrect/Incomplete | |
| 14. Was COC relinquished? (Signed/Dated/Timed) | / | | | <input type="checkbox"/> COC Incorrect/Incomplete | Box 16A: pH Preservation Box 18A: Residual Chlorine |
| 15. Were samples received within holding time? | / | | | <input type="checkbox"/> Holding Time - Receipt | Preservative: _____ |
| 16. Were samples received with correct chemical preservative (excluding Encore)? | / | | | <input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative | Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____ |
| 17. Were VOA samples received without headspace? | / | | | <input type="checkbox"/> Headspace (VOA only) | |
| 18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____ | / | | | <input type="checkbox"/> Residual Chlorine | |
| 19. For 1613B water samples is pH<9? | / | | | <input type="checkbox"/> If no, notify lab to adjust | |
| 20. For rad samples was sample activity info. Provided? | / | | | <input type="checkbox"/> Project missing info | |
| Project #: _____ | | | | PM Instructions: _____ | |

QA026R32.doc, 062719

Date: 9/12/20

Sample Receiving Associate: Ken WA



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-109917-1

Login Number: 109917

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

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



ANALYTICAL REPORT

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

Laboratory Job ID: 180-109919-1
Client Project/Site: Plant Wansley GW7327

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
11/10/2020 6:23:48 AM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.eurofinsus.com/Env

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

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

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Job ID: 180-109919-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-109919-1

Comments

No additional comments.

Receipt

The sample was received on 8/21/2020 9:45 AM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9° C.

Metals

7 Step Sequential Extraction Procedure

These soil samples were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7 Step Sequential Extraction Procedure". SW-846 Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

An aliquot of each sample was sequentially extracted using the steps listed below:

- Step 1 - Exchangeable Fraction: A 5 gram aliquot of sample was extracted with 25 mL of 1M magnesium sulfate (MgSO₄), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 2 - Carbonate Fraction: The sample residue from step 1 was extracted with 25 mL of 1M sodium acetate/acetic acid (NaOAc/HOAc) at pH 5, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 3 - Non-crystalline Materials Fraction: The sample residue from step 2 was extracted with 25 mL of 0.2M ammonium oxalate (pH 3), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 4 - Metal Hydroxide Fraction: The sample residue from step 3 was extracted with 25 mL of 1M hydroxylamine hydrochloride solution in 25% v/v acetic acid, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 5 - Organic-bound Fraction: The sample residue from step 4 was extracted three times with 25 mL of 5% sodium hypochlorite (NaClO) at pH 9.5, centrifuged and filtered. The resulting leachates were combined and 5 mL were digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 6 - Acid/Sulfide Fraction: The sample residue from step 5 was extracted with 25 mL of a 3:1:2 v/v solution of HCl-HNO₃-H₂O, centrifuged and filtered. 5 mL of the resulting leachate was diluted to 50 mL with reagent water and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 7 - Residual Fraction: A 1.0 g aliquot of the sample residue from step 6 was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Results are reported in mg/kg on a dry weight basis.

In addition, a 1.0 g aliquot of the original sample was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Total metal results are reported in mg/kg on a dry weight basis.

Results were calculated using the following equation:

$$\text{Result, } \mu\text{g/g or mg/Kg, dry weight} = (C \times V \times V1 \times D) / (W \times S \times V2)$$

Where:

- C = Concentration from instrument readout, $\mu\text{g/mL}$
- V = Final volume of digestate, mL
- D = Instrument dilution factor
- V1 = Total volume of leachate, mL
- V2 = Volume of leachate digested, mL
- W = Wet weight of sample, g
- S = Percent solids/100

A method blank, laboratory control sample and laboratory control sample duplicate were prepared and analyzed with each SEP step in

Case Narrative

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Job ID: 180-109919-1 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

order to provide information about both the presence of elements of interest in the extraction solutions, and the recovery of elements of interest from the extraction solutions. Results outside of laboratory QC limits do not reflect out of control performance, but rather the effect of the extraction solution upon the analyte.

A laboratory sample duplicate was prepared and analyzed with each batch of samples in order to provide information regarding the reproducibility of the procedure.

SEP Report Notes:

The final report lists the results for each step, the result for the total digestion of the sample, and a sum of the results of steps 1 through 7 by element.

The digestates for steps 1, 2 and 5 were analyzed at a dilution due to instrument problems caused by the high solids content of the digestates. The reporting limits were adjusted accordingly.

Method 6010B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: WGWC-8-47-57 (180-109919-1).

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

General Chemistry

% Moisture: The samples were analyzed for percent moisture using SOP number KNOX-WC-0012 (based on Modified MCAWW 160.3 and SM2540B and on the percent moisture determinations described in methods 3540C and 3550B).

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 Wansley GW7327

Job ID: 180-109919-1

Qualifiers

Metals

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

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 Wansley GW7327

Job ID: 180-109919-1

Laboratory: Eurofins TestAmerica, Knoxville

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

| Authority | Program | Identification Number | Expiration Date |
|------------------------|-----------------------|-----------------------|-----------------|
| | AFCEE | N/A | |
| ANAB | Dept. of Defense ELAP | L2311 | 02-13-22 |
| ANAB | Dept. of Energy | L2311.01 | 02-13-22 |
| ANAB | ISO/IEC 17025 | L2311 | 02-13-22 |
| ANAB | ISO/IEC 17025 | L2311 | 02-14-22 |
| Arkansas DEQ | State | 88-0688 | 06-17-21 |
| California | State | 2423 | 06-30-21 |
| Colorado | State | TN00009 | 02-28-21 |
| Connecticut | State | PH-0223 | 09-30-21 |
| Florida | NELAP | E87177 | 07-01-21 |
| Georgia (DW) | State | 906 | 12-11-22 |
| Hawaii | State | NA | 12-11-21 |
| Kansas | NELAP | E-10349 | 11-01-20 * |
| Kentucky (DW) | State | 90101 | 01-01-21 |
| Louisiana | NELAP | LA110001 | 12-31-12 * |
| Louisiana | NELAP | 83979 | 06-30-21 |
| Louisiana (DW) | State | LA019 | 12-31-20 |
| Maryland | State | 277 | 03-31-21 |
| Michigan | State | 9933 | 12-11-22 |
| Nevada | State | TN00009 | 07-31-21 |
| New Hampshire | NELAP | 299919 | 01-17-21 |
| New Jersey | NELAP | TN001 | 07-01-21 |
| New York | NELAP | 10781 | 03-31-21 |
| North Carolina (DW) | State | 21705 | 07-31-21 |
| North Carolina (WW/SW) | State | 64 | 12-31-20 |
| Ohio VAP | State | CL0059 | 06-02-23 |
| Oklahoma | State | 9415 | 08-31-21 |
| Oregon | NELAP | TNI0189 | 01-02-21 |
| Pennsylvania | NELAP | 68-00576 | 12-31-20 |
| Tennessee | State | 02014 | 12-11-22 |
| Texas | NELAP | T104704380-18-12 | 08-31-21 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-21 |
| USDA | US Federal Programs | P330-19-00236 | 08-20-22 |
| Utah | NELAP | TN00009 | 07-31-21 |
| Virginia | NELAP | 460176 | 09-14-21 |
| Washington | State | C593 | 01-19-21 |
| West Virginia (DW) | State | 9955C | 01-01-21 |
| West Virginia DEP | State | 345 | 05-01-21 |
| Wisconsin | State | 998044300 | 08-31-21 |

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

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 180-109919-1 | WGWC-8-47-57 | Solid | 07/09/20 09:45 | 08/21/20 09:45 | |

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Method Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

| Method | Method Description | Protocol | Laboratory |
|-----------------|--|----------|------------|
| 6010B | SEP Metals (ICP) - Total | SW846 | TAL KNX |
| 6010B SEP | SEP Metals (ICP) | SW846 | TAL KNX |
| 3010A | Preparation, Total Metals | SW846 | TAL KNX |
| Acid/Sulfide | Sequential Extraction Procedure, Acid/Sulfide Fraction | TAL-KNOX | TAL KNX |
| Carbonate | Sequential Extraction Procedure, Carbonate Fraction | TAL-KNOX | TAL KNX |
| Exchangeable | Sequential Extraction Procedure, Exchangeable Fraction | TAL-KNOX | TAL KNX |
| Metal Hydroxide | Sequential Extraction Procedure, Metal Hydroxide Fraction | TAL-KNOX | TAL KNX |
| Non-Crystalline | Sequential Extraction Procedure, Non-crystalline Materials | TAL-KNOX | TAL KNX |
| Organic-Bound | Sequential Extraction Procedure, Organic Bound Fraction | TAL-KNOX | TAL KNX |
| Residual | Sequential Extraction Procedure, Residual Fraction | TAL-KNOX | TAL KNX |
| Total | Preparation, Total Material | TAL-KNOX | TAL KNX |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-KNOX = TestAmerica Laboratories, Knoxville, Facility Standard Operating Procedure.

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Client Sample ID: WGWC-8-47-57

Lab Sample ID: 180-109919-1

Date Collected: 07/09/20 09:45

Matrix: Solid

Date Received: 08/21/20 09:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Sum of Steps 1-7 | Analysis | 6010B SEP | | 1 | | | 44104 | 11/02/20 10:20 | DKW | TAL KNX |
| Instrument ID: NOEQUIP | | | | | | | | | | |

Client Sample ID: WGWC-8-47-57

Lab Sample ID: 180-109919-1

Date Collected: 07/09/20 09:45

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 98.7

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|--------------------|------------|-----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | Total | | | 1.000 g | 50 mL | 43059 | 09/28/20 08:00 | KNC | TAL KNX |
| Total/NA | Analysis | 6010B | | 5 | | | 44042 | 10/29/20 16:28 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 1 | SEP | Exchangeable | | | 5.000 g | 25 mL | 43060 | 09/28/20 08:00 | KNC | TAL KNX |
| Step 1 | Prep | 3010A | | | 5 mL | 50 mL | 43133 | 09/29/20 08:00 | KNC | TAL KNX |
| Step 1 | Analysis | 6010B SEP | | 4 | | | 43944 | 10/27/20 12:07 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 2 | SEP | Carbonate | | | 5.000 g | 25 mL | 43447 | 10/12/20 10:01 | KNC | TAL KNX |
| Step 2 | Prep | 3010A | | | 5 mL | 50 mL | 43460 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 2 | Analysis | 6010B SEP | | 3 | | | 43944 | 10/27/20 13:48 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 3 | SEP | Non-Crystalline | | | 5.000 g | 25 mL | 43465 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 3 | Prep | 3010A | | | 5 mL | 50 mL | 43495 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 3 | Analysis | 6010B SEP | | 1 | | | 43944 | 10/27/20 15:34 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 4 | SEP | Metal Hydroxide | | | 5.000 g | 25 mL | 43496 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 4 | Prep | 3010A | | | 5 mL | 50 mL | 43539 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 4 | Analysis | 6010B SEP | | 1 | | | 43997 | 10/28/20 11:54 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 5 | SEP | Organic-Bound | | | 5.000 g | 75 mL | 43540 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 5 | Prep | 3010A | | | 5 mL | 50 mL | 43604 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 5 | Analysis | 6010B SEP | | 5 | | | 43997 | 10/28/20 13:41 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 6 | SEP | Acid/Sulfide | | | 5.00 g | 250 mL | 43605 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 6 | Analysis | 6010B SEP | | 1 | | | 43997 | 10/28/20 15:27 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |
| Step 7 | Prep | Residual | | | 1.000 g | 50 mL | 43637 | 10/20/20 08:00 | KNC | TAL KNX |
| Step 7 | Analysis | 6010B SEP | | 1 | | | 44042 | 10/29/20 12:07 | KNC | TAL KNX |
| Instrument ID: DUO | | | | | | | | | | |

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Analyst References:

Lab: TAL KNX

Batch Type: SEP

KNC = Kerry Collins

Batch Type: Prep

KNC = Kerry Collins

Batch Type: Analysis

DKW = Donna Wilburn

KNC = Kerry Collins

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Client Sample ID: WGWC-8-47-57

Lab Sample ID: 180-109919-1

Date Collected: 07/09/20 09:45

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 98.7

Method: 6010B SEP - SEP Metals (ICP) - Step 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.61 | | 10 | 0.61 | mg/Kg | ☼ | 09/29/20 08:00 | 10/27/20 12:07 | 4 |

Method: 6010B SEP - SEP Metals (ICP) - Step 2

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.46 | | 7.6 | 0.46 | mg/Kg | ☼ | 10/13/20 08:00 | 10/27/20 13:48 | 3 |

Method: 6010B SEP - SEP Metals (ICP) - Step 3

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/14/20 08:00 | 10/27/20 15:34 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 4

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 1.2 | J | 2.5 | 0.15 | mg/Kg | ☼ | 10/15/20 08:00 | 10/28/20 11:54 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Lithium | <2.2 | | 38 | 2.2 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 13:41 | 5 |

Method: 6010B SEP - SEP Metals (ICP) - Step 6

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 1.1 | J | 2.5 | 0.15 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 15:27 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 10 | | 2.5 | 0.15 | mg/Kg | ☼ | 10/20/20 08:00 | 10/29/20 12:07 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Lithium | 12 | | 2.5 | 0.15 | mg/Kg | | | 11/02/20 10:20 | 1 |

Method: 6010B - SEP Metals (ICP) - Total

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | 17 | | 13 | 0.76 | mg/Kg | ☼ | 09/28/20 08:00 | 10/29/20 16:28 | 5 |

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Method: 6010B - SEP Metals (ICP) - Total

Lab Sample ID: MB 140-43059/14-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43059

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 09/28/20 08:00 | 10/29/20 10:56 | 1 |

Lab Sample ID: LCS 140-43059/15-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43059

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.17 | | mg/Kg | | 103 | 75 - 125 |

Lab Sample ID: LCSD 140-43059/16-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43059

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 5.03 | | mg/Kg | | 101 | 75 - 125 | 3 | 30 |

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-43060/14-B ^4
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 1
Prep Batch: 43133

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.60 | | 10 | 0.60 | mg/Kg | | 09/29/20 08:00 | 10/27/20 11:39 | 4 |

Lab Sample ID: LCS 140-43060/15-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 1
Prep Batch: 43133

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.09 | J | mg/Kg | | 102 | 75 - 125 |

Lab Sample ID: LCSD 140-43060/16-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 43133

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 4.61 | J | mg/Kg | | 92 | 75 - 125 | 10 | 30 |

Lab Sample ID: MB 140-43447/14-B ^3
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 2
Prep Batch: 43460

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.45 | | 7.5 | 0.45 | mg/Kg | | 10/13/20 08:00 | 10/27/20 13:09 | 3 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-43447/15-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 2
Prep Batch: 43460

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 4.57 | J | mg/Kg | | 91 | 75 - 125 |

Lab Sample ID: LCSD 140-43447/16-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 2
Prep Batch: 43460

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 4.38 | J | mg/Kg | | 88 | 75 - 125 | 4 | 30 |

Lab Sample ID: MB 140-43465/14-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 3
Prep Batch: 43495

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 10/14/20 08:00 | 10/27/20 14:51 | 1 |

Lab Sample ID: LCS 140-43465/15-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 43495

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.29 | | mg/Kg | | 106 | 75 - 125 |

Lab Sample ID: LCSD 140-43465/16-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 3
Prep Batch: 43495

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 5.17 | | mg/Kg | | 103 | 75 - 125 | 2 | 30 |

Lab Sample ID: MB 140-43496/14-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 4
Prep Batch: 43539

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 10/15/20 08:00 | 10/28/20 11:26 | 1 |

Lab Sample ID: LCS 140-43496/15-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 43539

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.32 | | mg/Kg | | 106 | 75 - 125 |

Lab Sample ID: LCSD 140-43496/16-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 4
Prep Batch: 43539

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 5.20 | | mg/Kg | | 104 | 75 - 125 | 2 | 30 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-43540/14-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 5
Prep Batch: 43604

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|----|-----|-------|---|----------------|----------------|---------|
| Lithium | <2.2 | | 38 | 2.2 | mg/Kg | | 10/19/20 08:00 | 10/28/20 13:02 | 5 |

Lab Sample ID: LCS 140-43540/15-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 5
Prep Batch: 43604

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 15.0 | 16.4 | J | mg/Kg | | 109 | 75 - 125 |

Lab Sample ID: LCSD 140-43540/16-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 5
Prep Batch: 43604

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Lithium | 15.0 | 17.4 | J | mg/Kg | | 116 | 75 - 125 | 6 | 30 |

Lab Sample ID: MB 140-43605/14-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 43605

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 10/19/20 08:00 | 10/28/20 14:45 | 1 |

Lab Sample ID: LCS 140-43605/15-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 6
Prep Batch: 43605

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 4.96 | | mg/Kg | | 99 | 75 - 125 |

Lab Sample ID: LCSD 140-43605/16-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 6
Prep Batch: 43605

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Lithium | 5.00 | 5.03 | | mg/Kg | | 101 | 75 - 125 | 1 | 30 |

Lab Sample ID: MB 140-43637/14-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Method Blank
Prep Type: Step 7
Prep Batch: 43637

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 10/20/20 08:00 | 10/29/20 10:42 | 1 |

Lab Sample ID: LCS 140-43637/15-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample
Prep Type: Step 7
Prep Batch: 43637

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.04 | | mg/Kg | | 101 | 75 - 125 |

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: LCSD 140-43637/16-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 7
Prep Batch: 43637

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 5.05 | | mg/Kg | | 101 | 75 - 125 | 0 | 30 |

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Metals

Prep Batch: 43059

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 180-109919-1 | WGWC-8-47-57 | Total/NA | Solid | Total | |
| MB 140-43059/14-A | Method Blank | Total/NA | Solid | Total | |
| LCS 140-43059/15-A | Lab Control Sample | Total/NA | Solid | Total | |
| LCSD 140-43059/16-A | Lab Control Sample Dup | Total/NA | Solid | Total | |

SEP Batch: 43060

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|--------------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 1 | Solid | Exchangeable | |
| MB 140-43060/14-B ^4 | Method Blank | Step 1 | Solid | Exchangeable | |
| LCS 140-43060/15-B ^5 | Lab Control Sample | Step 1 | Solid | Exchangeable | |
| LCSD 140-43060/16-B ^5 | Lab Control Sample Dup | Step 1 | Solid | Exchangeable | |

Prep Batch: 43133

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|--------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 1 | Solid | 3010A | 43060 |
| MB 140-43060/14-B ^4 | Method Blank | Step 1 | Solid | 3010A | 43060 |
| LCS 140-43060/15-B ^5 | Lab Control Sample | Step 1 | Solid | 3010A | 43060 |
| LCSD 140-43060/16-B ^5 | Lab Control Sample Dup | Step 1 | Solid | 3010A | 43060 |

SEP Batch: 43447

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|-----------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 2 | Solid | Carbonate | |
| MB 140-43447/14-B ^3 | Method Blank | Step 2 | Solid | Carbonate | |
| LCS 140-43447/15-B ^5 | Lab Control Sample | Step 2 | Solid | Carbonate | |
| LCSD 140-43447/16-B ^5 | Lab Control Sample Dup | Step 2 | Solid | Carbonate | |

Prep Batch: 43460

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|--------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 2 | Solid | 3010A | 43447 |
| MB 140-43447/14-B ^3 | Method Blank | Step 2 | Solid | 3010A | 43447 |
| LCS 140-43447/15-B ^5 | Lab Control Sample | Step 2 | Solid | 3010A | 43447 |
| LCSD 140-43447/16-B ^5 | Lab Control Sample Dup | Step 2 | Solid | 3010A | 43447 |

SEP Batch: 43465

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 3 | Solid | Non-Crystalline | |
| MB 140-43465/14-B | Method Blank | Step 3 | Solid | Non-Crystalline | |
| LCS 140-43465/15-B | Lab Control Sample | Step 3 | Solid | Non-Crystalline | |
| LCSD 140-43465/16-B | Lab Control Sample Dup | Step 3 | Solid | Non-Crystalline | |

Prep Batch: 43495

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 3 | Solid | 3010A | 43465 |
| MB 140-43465/14-B | Method Blank | Step 3 | Solid | 3010A | 43465 |
| LCS 140-43465/15-B | Lab Control Sample | Step 3 | Solid | 3010A | 43465 |
| LCSD 140-43465/16-B | Lab Control Sample Dup | Step 3 | Solid | 3010A | 43465 |

SEP Batch: 43496

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|-----------------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 4 | Solid | Metal Hydroxide | |
| MB 140-43496/14-B | Method Blank | Step 4 | Solid | Metal Hydroxide | |

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Metals (Continued)

SEP Batch: 43496 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------------|------------|
| LCS 140-43496/15-B | Lab Control Sample | Step 4 | Solid | Metal Hydroxide | |
| LCSD 140-43496/16-B | Lab Control Sample Dup | Step 4 | Solid | Metal Hydroxide | |

Prep Batch: 43539

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 4 | Solid | 3010A | 43496 |
| MB 140-43496/14-B | Method Blank | Step 4 | Solid | 3010A | 43496 |
| LCS 140-43496/15-B | Lab Control Sample | Step 4 | Solid | 3010A | 43496 |
| LCSD 140-43496/16-B | Lab Control Sample Dup | Step 4 | Solid | 3010A | 43496 |

SEP Batch: 43540

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|---------------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 5 | Solid | Organic-Bound | |
| MB 140-43540/14-B ^5 | Method Blank | Step 5 | Solid | Organic-Bound | |
| LCS 140-43540/15-B ^5 | Lab Control Sample | Step 5 | Solid | Organic-Bound | |
| LCSD 140-43540/16-B ^5 | Lab Control Sample Dup | Step 5 | Solid | Organic-Bound | |

Prep Batch: 43604

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|--------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 5 | Solid | 3010A | 43540 |
| MB 140-43540/14-B ^5 | Method Blank | Step 5 | Solid | 3010A | 43540 |
| LCS 140-43540/15-B ^5 | Lab Control Sample | Step 5 | Solid | 3010A | 43540 |
| LCSD 140-43540/16-B ^5 | Lab Control Sample Dup | Step 5 | Solid | 3010A | 43540 |

SEP Batch: 43605

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 6 | Solid | Acid/Sulfide | |
| MB 140-43605/14-A | Method Blank | Step 6 | Solid | Acid/Sulfide | |
| LCS 140-43605/15-A | Lab Control Sample | Step 6 | Solid | Acid/Sulfide | |
| LCSD 140-43605/16-A | Lab Control Sample Dup | Step 6 | Solid | Acid/Sulfide | |

Prep Batch: 43637

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 7 | Solid | Residual | |
| MB 140-43637/14-A | Method Blank | Step 7 | Solid | Residual | |
| LCS 140-43637/15-A | Lab Control Sample | Step 7 | Solid | Residual | |
| LCSD 140-43637/16-A | Lab Control Sample Dup | Step 7 | Solid | Residual | |

Analysis Batch: 43944

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|-----------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 1 | Solid | 6010B SEP | 43133 |
| 180-109919-1 | WGWC-8-47-57 | Step 2 | Solid | 6010B SEP | 43460 |
| 180-109919-1 | WGWC-8-47-57 | Step 3 | Solid | 6010B SEP | 43495 |
| MB 140-43060/14-B ^4 | Method Blank | Step 1 | Solid | 6010B SEP | 43133 |
| MB 140-43447/14-B ^3 | Method Blank | Step 2 | Solid | 6010B SEP | 43460 |
| MB 140-43465/14-B | Method Blank | Step 3 | Solid | 6010B SEP | 43495 |
| LCS 140-43060/15-B ^5 | Lab Control Sample | Step 1 | Solid | 6010B SEP | 43133 |
| LCS 140-43447/15-B ^5 | Lab Control Sample | Step 2 | Solid | 6010B SEP | 43460 |
| LCS 140-43465/15-B | Lab Control Sample | Step 3 | Solid | 6010B SEP | 43495 |
| LCSD 140-43060/16-B ^5 | Lab Control Sample Dup | Step 1 | Solid | 6010B SEP | 43133 |
| LCSD 140-43447/16-B ^5 | Lab Control Sample Dup | Step 2 | Solid | 6010B SEP | 43460 |

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Metals (Continued)

Analysis Batch: 43944 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| LCSD 140-43465/16-B | Lab Control Sample Dup | Step 3 | Solid | 6010B SEP | 43495 |

Analysis Batch: 43997

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|-----------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 4 | Solid | 6010B SEP | 43539 |
| 180-109919-1 | WGWC-8-47-57 | Step 5 | Solid | 6010B SEP | 43604 |
| 180-109919-1 | WGWC-8-47-57 | Step 6 | Solid | 6010B SEP | 43605 |
| MB 140-43496/14-B | Method Blank | Step 4 | Solid | 6010B SEP | 43539 |
| MB 140-43540/14-B ^5 | Method Blank | Step 5 | Solid | 6010B SEP | 43604 |
| MB 140-43605/14-A | Method Blank | Step 6 | Solid | 6010B SEP | 43605 |
| LCS 140-43496/15-B | Lab Control Sample | Step 4 | Solid | 6010B SEP | 43539 |
| LCS 140-43540/15-B ^5 | Lab Control Sample | Step 5 | Solid | 6010B SEP | 43604 |
| LCS 140-43605/15-A | Lab Control Sample | Step 6 | Solid | 6010B SEP | 43605 |
| LCSD 140-43496/16-B | Lab Control Sample Dup | Step 4 | Solid | 6010B SEP | 43539 |
| LCSD 140-43540/16-B ^5 | Lab Control Sample Dup | Step 5 | Solid | 6010B SEP | 43604 |
| LCSD 140-43605/16-A | Lab Control Sample Dup | Step 6 | Solid | 6010B SEP | 43605 |

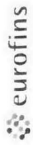
Analysis Batch: 44042

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 180-109919-1 | WGWC-8-47-57 | Step 7 | Solid | 6010B SEP | 43637 |
| 180-109919-1 | WGWC-8-47-57 | Total/NA | Solid | 6010B | 43059 |
| MB 140-43059/14-A | Method Blank | Total/NA | Solid | 6010B | 43059 |
| MB 140-43637/14-A | Method Blank | Step 7 | Solid | 6010B SEP | 43637 |
| LCS 140-43059/15-A | Lab Control Sample | Total/NA | Solid | 6010B | 43059 |
| LCS 140-43637/15-A | Lab Control Sample | Step 7 | Solid | 6010B SEP | 43637 |
| LCSD 140-43059/16-A | Lab Control Sample Dup | Total/NA | Solid | 6010B | 43059 |
| LCSD 140-43637/16-A | Lab Control Sample Dup | Step 7 | Solid | 6010B SEP | 43637 |

Analysis Batch: 44104

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|------------------|--------|-----------|------------|
| 180-109919-1 | WGWC-8-47-57 | Sum of Steps 1-7 | Solid | 6010B SEP | |

Chain of Custody Record



Environment Testing
 America

29/38

7/19/20
 WTB
 Shawn Lin

| | | | | | | | |
|--|--|---|--|---|--|--|--|
| Client Information Client Contact: Adria Reimer Phone: 205-657-5949 Email: shall.brown@testamericainc.com | | Lab PM: Brown, Shali E-Mail: shall.brown@testamericainc.com | | Carrier Tracking No(s): FedEx 29467775217 | | COC No: Page: Job # | |
| Geosyntec Address: 1255 Roberts Blvd NW, Suite 200 City: Kennesaw State, Zip: GA 30144 Phone: 678-202-9564 Email: areimer@geosyntec.com Project Name: GW7327 Site: Plant Wansley | | Due Date Requested: NLT 7/17/2020 TAT Requested (days): 3 day RUSH | | Analysis Requested | | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) | |
| Sample Identification WGLWC-8 47-57 Sample Date: 2020/07/19 09:45 Sample Time: 09:45 Sample Type (C=Comp, G=grab): C Preservation Code: S Matrix (Water, Solid, Organic, Oil): Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): Particle Size Reduction: 6020 Lithium Total Number of Containers: | | Sample Date: 2020/07/19 09:45 Sample Time: 09:45 Sample Type (C=Comp, G=grab): C Preservation Code: S Matrix (Water, Solid, Organic, Oil): Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): Particle Size Reduction: 6020 Lithium Total Number of Containers: | | Special Instructions/Note: Applicable to all samples on COC - perform particle size reduction as needed to ensure homogeneous sample is analyzed | | Special Instructions/Note: Applicable to all samples on COC - perform particle size reduction as needed to ensure homogeneous sample is analyzed | |
| Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For 2 Months | | Special Instructions/QC Requirements: see special note above | | Special Instructions/QC Requirements: see special note above | |
| Empty Kit Relinquished by: Relinquished by: Shawn Lin Relinquished by: [Signature] Relinquished by: [Signature] | | Date: Date/Time: 7.9.2020 17:10 Date/Time: 8-20-20 1730 | | Method of Shipment: Received by: Adam Penot Received by: [Signature] Received by: [Signature] | | Date/Time: 7-10-20 1000 Date/Time: Date/Time: | |
| Custody Seals Intact: Δ Yes Δ No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | Company: Geosyntec Company: Geosyntec Company: Geosyntec | |



Martin, Aaron

From: Brown, Shali
Sent: Thursday, August 20, 2020 3:59 PM
To: Martin, Aaron
Subject: 240-133223-1 and 240-133409-1 need these samples sent to Pittsburg please and thank you
Attachments: COC 240-133409 (202007151152).pdf; COC 240-133223 (202007101623).pdf

240-133223-1 and 240-133409-1 need these samples sent to Pittsburg
They should already be crushed (PSR was for whole sample).
Relinquish using the original COC's if possible. If not, I have included a copy of COC for each job.

133223 one sample plastic bag and soil jar C229

133409 seven samples plastic bag all in C238

If not too much trouble.... Can you eyeball about how much sample you have of each one?

Thank You!!
Shali

Please note our adjusted schedule for Labor Day >>

COMMUNICATIONS ALERT: Change of email addresses for all Eurofins TestAmerica staff effective July 9, 2020

Please update my email address Shali.Brown@eurofinset.com in your email directory!

Shali Brown
Project Manager

Eurofins TestAmerica
500 Wilson Pike Circle Suite 100
Brentwood, TN 37027
USA

Phone: 615-301-5031

E-mail: shali.brown@eurofinset.com

www.EurofinsUS.com | www.TestAmericainc.com | [Facebook](#) | [LinkedIn](#)

TestAmerica

ORIGIN ID:PHDA (330) 312-0176
EUROFINS TESTAMERICA CANTON
4101 SHUFFEL STREET NW

SHIP DATE: 20AUG20
ACTWT: 59.50 LB
CAD: 0562057/CAFE3313

NORTH CANTON, OH 447206900
UNITED STATES US

BILL RECIPIENT

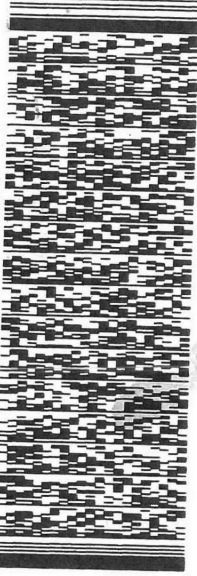
TO ENVIRONMENTAL SAMPLE RECEIPT
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068

DEPT: AL HAIDET



FedEx
Express



FRI - 21 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 9148 7501 0859
0201

65 AGCA

15238
PA-US PIT

Uncorrected Temp
Thermometer ID

CF

0

Initials

B

PT-VI-SR-001 effective 11/8/18



180-109919 Waybill

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

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

| Review Items | Yes | No | NA | If No, what was the problem? | Comments/Actions Taken |
|--|-----|----|----|---|---|
| 1. Are the shipping containers intact? | / | | | <input type="checkbox"/> Containers, Broken | |
| 2. Were ambient air containers received intact? | | | / | <input type="checkbox"/> Checked in lab | |
| 3. The coolers/containers custody seal if present, is it intact? | / | | | <input type="checkbox"/> Yes <input type="checkbox"/> NA | RT: 3.0 °C CT: 3.0 °C / Scanner checked by cool info 8/2 TKH/689 5103 7/6/19 KVL 9/12/20 |
| 4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10 °C) Thermometer ID: <u>SC68</u> Correction factor: <u>0.0</u> | / | | | <input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt | |
| 5. Were all of the sample containers received intact? | / | | | <input type="checkbox"/> Containers, Broken | |
| 6. Were samples received in appropriate containers? | / | | | <input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel | |
| 7. Do sample container labels match COC? (IDs, Dates, Times) | / | | | <input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received | |
| 8. Were all of the samples listed on the COC received? | / | | | <input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received | |
| 9. Is the date/time of sample collection noted? | / | | | <input type="checkbox"/> COC; No Date/Time; Client Contacted | Labeling Verified by: _____ Date: _____ |
| 10. Was the sampler identified on the COC? | / | | | <input type="checkbox"/> Sampler Not Listed on COC | |
| 11. Is the client and project name/# identified? | / | | | <input type="checkbox"/> COC Incorrect/Incomplete | |
| 12. Are tests/parameters listed for each sample? | / | | | <input type="checkbox"/> COC No tests on COC | |
| 13. Is the matrix of the samples noted? | / | | | <input type="checkbox"/> COC Incorrect/Incomplete | pH test strip lot number: _____ |
| 14. Was COC relinquished? (Signed/Dated/Timed) | / | | | <input type="checkbox"/> COC Incorrect/Incomplete | Box 16A: pH Preservation Box 18A: Residual Chlorine |
| 15. Were samples received within holding time? | / | | | <input type="checkbox"/> Holding Time - Receipt | Preservative: _____ |
| 16. Were samples received with correct chemical preservative (excluding Encore)? | / | | | <input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative | Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____ |
| 17. Were VOA samples received without headspace? | / | | | <input type="checkbox"/> Headspace (VOA only) | |
| 18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____ | / | | | <input type="checkbox"/> Residual Chlorine | |
| 19. For 1613B water samples is pH<9? | / | | | <input type="checkbox"/> If no, notify lab to adjust | |
| 20. For rad samples was sample activity info. Provided? | / | | | <input type="checkbox"/> Project missing info | |
| Project #: _____ PM Instructions: _____ | | | | | |

Sample Receiving Associate: Ken Walker Date: 9/12/20 QA026R32.doc, 062719



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-109919-1

Login Number: 109919

List Number: 1

Creator: Say, Thomas C

List Source: Eurofins TestAmerica, Pittsburgh

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

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-136127-2
Client Project/Site: Plant Wansley GW7327

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
11/10/2020 6:22:12 AM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Qualifiers

Metals

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

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 |

Case Narrative

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Job ID: 240-136127-2

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-136127-2

Comments

No additional comments.

Receipt

The samples were received on 9/4/2020 11:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° C.

Metals

7 Step Sequential Extraction Procedure

These soil samples were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7 Step Sequential Extraction Procedure". SW-846 Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

An aliquot of each sample was sequentially extracted using the steps listed below:

- Step 1 - Exchangeable Fraction: A 5 gram aliquot of sample was extracted with 25 mL of 1M magnesium sulfate (MgSO₄), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 2 - Carbonate Fraction: The sample residue from step 1 was extracted with 25 mL of 1M sodium acetate/acetic acid (NaOAc/HOAc) at pH 5, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 3 - Non-crystalline Materials Fraction: The sample residue from step 2 was extracted with 25 mL of 0.2M ammonium oxalate (pH 3), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 4 - Metal Hydroxide Fraction: The sample residue from step 3 was extracted with 25 mL of 1M hydroxylamine hydrochloride solution in 25% v/v acetic acid, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 5 - Organic-bound Fraction: The sample residue from step 4 was extracted three times with 25 mL of 5% sodium hypochlorite (NaClO) at pH 9.5, centrifuged and filtered. The resulting leachates were combined and 5 mL were digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 6 - Acid/Sulfide Fraction: The sample residue from step 5 was extracted with 25 mL of a 3:1:2 v/v solution of HCl-HNO₃-H₂O, centrifuged and filtered. 5 mL of the resulting leachate was diluted to 50 mL with reagent water and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 7 - Residual Fraction: A 1.0 g aliquot of the sample residue from step 6 was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Results are reported in mg/kg on a dry weight basis.

In addition, a 1.0 g aliquot of the original sample was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Total metal results are reported in mg/kg on a dry weight basis.

Results were calculated using the following equation:

$$\text{Result, } \mu\text{g/g or mg/Kg, dry weight} = (C \times V \times V1 \times D) / (W \times S \times V2)$$

Where:

- C = Concentration from instrument readout, $\mu\text{g/mL}$
- V = Final volume of digestate, mL
- D = Instrument dilution factor
- V1 = Total volume of leachate, mL
- V2 = Volume of leachate digested, mL
- W = Wet weight of sample, g
- S = Percent solids/100

A method blank, laboratory control sample and laboratory control sample duplicate were prepared and analyzed with each SEP step in

Case Narrative

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Job ID: 240-136127-2 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

order to provide information about both the presence of elements of interest in the extraction solutions, and the recovery of elements of interest from the extraction solutions. Results outside of laboratory QC limits do not reflect out of control performance, but rather the effect of the extraction solution upon the analyte.

A laboratory sample duplicate was prepared and analyzed with each batch of samples in order to provide information regarding the reproducibility of the procedure.

SEP Report Notes:

The final report lists the results for each step, the result for the total digestion of the sample, and a sum of the results of steps 1 through 7 by element.

The digestates for steps 1, 2 and 5 were analyzed at a dilution due to instrument problems caused by the high solids content of the digestates. The reporting limits were adjusted accordingly.

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



Method Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

| Method | Method Description | Protocol | Laboratory |
|-----------------|--|----------|------------|
| 6010B | SEP Metals (ICP) - Total | SW846 | TAL KNX |
| 6010B SEP | SEP Metals (ICP) | SW846 | TAL KNX |
| 3010A | Preparation, Total Metals | SW846 | TAL KNX |
| Acid/Sulfide | Sequential Extraction Procedure, Acid/Sulfide Fraction | TAL-KNOX | TAL KNX |
| Carbonate | Sequential Extraction Procedure, Carbonate Fraction | TAL-KNOX | TAL KNX |
| Exchangeable | Sequential Extraction Procedure, Exchangeable Fraction | TAL-KNOX | TAL KNX |
| Metal Hydroxide | Sequential Extraction Procedure, Metal Hydroxide Fraction | TAL-KNOX | TAL KNX |
| Non-Crystalline | Sequential Extraction Procedure, Non-crystalline Materials | TAL-KNOX | TAL KNX |
| Organic-Bound | Sequential Extraction Procedure, Organic Bound Fraction | TAL-KNOX | TAL KNX |
| Residual | Sequential Extraction Procedure, Residual Fraction | TAL-KNOX | TAL KNX |
| Total | Preparation, Total Material | TAL-KNOX | TAL KNX |

Protocol References:

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

TAL-KNOX = TestAmerica Laboratories, Knoxville, Facility Standard Operating Procedure.

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 240-136127-1 | WGWC-19 87-88 | Solid | 09/03/20 13:00 | 09/04/20 11:00 | |
| 240-136127-2 | WGWC-19 89-90 | Solid | 09/03/20 13:05 | 09/04/20 11:00 | |

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

Detection Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Client Sample ID: WGWC-19 87-88

Lab Sample ID: 240-136127-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|-------|---------|---|-----------|------------------|
| Lithium | 0.52 | J | 2.6 | 0.15 | mg/Kg | 1 | ✳ | 6010B SEP | Step 3 |
| Lithium | 11 | | 2.6 | 0.15 | mg/Kg | 1 | ✳ | 6010B SEP | Step 4 |
| Lithium | 5.7 | J | 39 | 2.3 | mg/Kg | 5 | ✳ | 6010B SEP | Step 5 |
| Lithium | 55 | | 2.6 | 0.15 | mg/Kg | 1 | ✳ | 6010B SEP | Step 6 |
| Lithium | 26 | | 2.6 | 0.15 | mg/Kg | 1 | ✳ | 6010B SEP | Step 7 |
| Lithium | 98 | | 2.5 | 0.15 | mg/Kg | 1 | | 6010B SEP | Sum of Steps 1-7 |
| Lithium | 86 | | 2.6 | 0.15 | mg/Kg | 1 | ✳ | 6010B | Total/NA |

Client Sample ID: WGWC-19 89-90

Lab Sample ID: 240-136127-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|-------|---------|---|-----------|------------------|
| Lithium | 0.52 | J | 2.6 | 0.16 | mg/Kg | 1 | ✳ | 6010B SEP | Step 3 |
| Lithium | 12 | | 2.6 | 0.16 | mg/Kg | 1 | ✳ | 6010B SEP | Step 4 |
| Lithium | 5.1 | J | 39 | 2.3 | mg/Kg | 5 | ✳ | 6010B SEP | Step 5 |
| Lithium | 45 | | 2.6 | 0.16 | mg/Kg | 1 | ✳ | 6010B SEP | Step 6 |
| Lithium | 20 | | 2.6 | 0.16 | mg/Kg | 1 | ✳ | 6010B SEP | Step 7 |
| Lithium | 83 | | 2.5 | 0.15 | mg/Kg | 1 | | 6010B SEP | Sum of Steps 1-7 |
| Lithium | 70 | | 2.6 | 0.16 | mg/Kg | 1 | ✳ | 6010B | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Client Sample ID: WGWC-19 87-88

Lab Sample ID: 240-136127-1

Date Collected: 09/03/20 13:00

Matrix: Solid

Date Received: 09/04/20 11:00

Percent Solids: 97.1

Method: 6010B SEP - SEP Metals (ICP) - Step 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.62 | | 10 | 0.62 | mg/Kg | ☼ | 09/29/20 08:00 | 10/27/20 13:00 | 4 |

Method: 6010B SEP - SEP Metals (ICP) - Step 2

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.46 | | 7.7 | 0.46 | mg/Kg | ☼ | 10/13/20 08:00 | 10/27/20 14:41 | 3 |

Method: 6010B SEP - SEP Metals (ICP) - Step 3

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 0.52 | J | 2.6 | 0.15 | mg/Kg | ☼ | 10/14/20 08:00 | 10/27/20 16:13 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 4

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 11 | | 2.6 | 0.15 | mg/Kg | ☼ | 10/15/20 08:00 | 10/28/20 12:52 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Lithium | 5.7 | J | 39 | 2.3 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 14:35 | 5 |

Method: 6010B SEP - SEP Metals (ICP) - Step 6

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 55 | | 2.6 | 0.15 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 16:07 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 26 | | 2.6 | 0.15 | mg/Kg | ☼ | 10/20/20 08:00 | 10/29/20 12:57 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Lithium | 98 | | 2.5 | 0.15 | mg/Kg | | | 11/02/20 10:26 | 1 |

Method: 6010B - SEP Metals (ICP) - Total

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 86 | | 2.6 | 0.15 | mg/Kg | ☼ | 09/28/20 08:00 | 10/29/20 14:47 | 1 |

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Client Sample ID: WGWC-19 89-90

Lab Sample ID: 240-136127-2

Date Collected: 09/03/20 13:05

Matrix: Solid

Date Received: 09/04/20 11:00

Percent Solids: 96.3

Method: 6010B SEP - SEP Metals (ICP) - Step 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.62 | | 10 | 0.62 | mg/Kg | ☼ | 09/29/20 08:00 | 10/27/20 13:04 | 4 |

Method: 6010B SEP - SEP Metals (ICP) - Step 2

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.47 | | 7.8 | 0.47 | mg/Kg | ☼ | 10/13/20 08:00 | 10/27/20 14:46 | 3 |

Method: 6010B SEP - SEP Metals (ICP) - Step 3

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 0.52 | J | 2.6 | 0.16 | mg/Kg | ☼ | 10/14/20 08:00 | 10/27/20 16:27 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 4

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 12 | | 2.6 | 0.16 | mg/Kg | ☼ | 10/15/20 08:00 | 10/28/20 12:57 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Lithium | 5.1 | J | 39 | 2.3 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 14:40 | 5 |

Method: 6010B SEP - SEP Metals (ICP) - Step 6

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 45 | | 2.6 | 0.16 | mg/Kg | ☼ | 10/19/20 08:00 | 10/28/20 16:26 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Step 7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 20 | | 2.6 | 0.16 | mg/Kg | ☼ | 10/20/20 08:00 | 10/29/20 13:02 | 1 |

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------|----------------|---------|
| Lithium | 83 | | 2.5 | 0.15 | mg/Kg | | | 11/02/20 10:26 | 1 |

Method: 6010B - SEP Metals (ICP) - Total

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | 70 | | 2.6 | 0.16 | mg/Kg | ☼ | 09/28/20 08:00 | 10/29/20 14:53 | 1 |

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Method: 6010B - SEP Metals (ICP) - Total

Lab Sample ID: MB 140-43059/14-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43059

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 09/28/20 08:00 | 10/29/20 10:56 | 1 |

Lab Sample ID: LCS 140-43059/15-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43059

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.17 | | mg/Kg | | 103 | 75 - 125 |

Lab Sample ID: LCSD 140-43059/16-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43059

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 5.03 | | mg/Kg | | 101 | 75 - 125 | 3 | 30 |

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-43060/14-B ^4
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 1
Prep Batch: 43133

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.60 | | 10 | 0.60 | mg/Kg | | 09/29/20 08:00 | 10/27/20 11:39 | 4 |

Lab Sample ID: LCS 140-43060/15-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 1
Prep Batch: 43133

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.09 | J | mg/Kg | | 102 | 75 - 125 |

Lab Sample ID: LCSD 140-43060/16-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 43133

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 4.61 | J | mg/Kg | | 92 | 75 - 125 | 10 | 30 |

Lab Sample ID: MB 140-43447/14-B ^3
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 2
Prep Batch: 43460

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.45 | | 7.5 | 0.45 | mg/Kg | | 10/13/20 08:00 | 10/27/20 13:09 | 3 |

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-43447/15-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 2
Prep Batch: 43460

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 4.57 | J | mg/Kg | | 91 | 75 - 125 |

Lab Sample ID: LCSD 140-43447/16-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 2
Prep Batch: 43460

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 4.38 | J | mg/Kg | | 88 | 75 - 125 | 4 | 30 |

Lab Sample ID: MB 140-43465/14-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 3
Prep Batch: 43495

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 10/14/20 08:00 | 10/27/20 14:51 | 1 |

Lab Sample ID: LCS 140-43465/15-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 43495

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.29 | | mg/Kg | | 106 | 75 - 125 |

Lab Sample ID: LCSD 140-43465/16-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 3
Prep Batch: 43495

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 5.17 | | mg/Kg | | 103 | 75 - 125 | 2 | 30 |

Lab Sample ID: MB 140-43496/14-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 4
Prep Batch: 43539

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 10/15/20 08:00 | 10/28/20 11:26 | 1 |

Lab Sample ID: LCS 140-43496/15-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 43539

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.32 | | mg/Kg | | 106 | 75 - 125 |

Lab Sample ID: LCSD 140-43496/16-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 4
Prep Batch: 43539

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 5.20 | | mg/Kg | | 104 | 75 - 125 | 2 | 30 |

Eurofins TestAmerica, Canton

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-43540/14-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 5
Prep Batch: 43604

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|----|-----|-------|---|----------------|----------------|---------|
| Lithium | <2.2 | | 38 | 2.2 | mg/Kg | | 10/19/20 08:00 | 10/28/20 13:02 | 5 |

Lab Sample ID: LCS 140-43540/15-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 5
Prep Batch: 43604

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 15.0 | 16.4 | J | mg/Kg | | 109 | 75 - 125 |

Lab Sample ID: LCSD 140-43540/16-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 5
Prep Batch: 43604

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Lithium | 15.0 | 17.4 | J | mg/Kg | | 116 | 75 - 125 | 6 | 30 |

Lab Sample ID: MB 140-43605/14-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 43605

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 10/19/20 08:00 | 10/28/20 14:45 | 1 |

Lab Sample ID: LCS 140-43605/15-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 6
Prep Batch: 43605

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 4.96 | | mg/Kg | | 99 | 75 - 125 |

Lab Sample ID: LCSD 140-43605/16-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 6
Prep Batch: 43605

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Lithium | 5.00 | 5.03 | | mg/Kg | | 101 | 75 - 125 | 1 | 30 |

Lab Sample ID: MB 140-43637/14-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Method Blank
Prep Type: Step 7
Prep Batch: 43637

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-----|------|-------|---|----------------|----------------|---------|
| Lithium | <0.15 | | 2.5 | 0.15 | mg/Kg | | 10/20/20 08:00 | 10/29/20 10:42 | 1 |

Lab Sample ID: LCS 140-43637/15-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample
Prep Type: Step 7
Prep Batch: 43637

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Lithium | 5.00 | 5.04 | | mg/Kg | | 101 | 75 - 125 |

Eurofins TestAmerica, Canton

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: LCSD 140-43637/16-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 7
Prep Batch: 43637

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Lithium | 5.00 | 5.05 | | mg/Kg | | 101 | 75 - 125 | 0 | 30 |

- 1
- 2
- 3
- 4
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- 9
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- 12
- 13

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Metals

Prep Batch: 43059

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-136127-1 | WGWC-19 87-88 | Total/NA | Solid | Total | |
| 240-136127-2 | WGWC-19 89-90 | Total/NA | Solid | Total | |
| MB 140-43059/14-A | Method Blank | Total/NA | Solid | Total | |
| LCS 140-43059/15-A | Lab Control Sample | Total/NA | Solid | Total | |
| LCSD 140-43059/16-A | Lab Control Sample Dup | Total/NA | Solid | Total | |

SEP Batch: 43060

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|--------------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 1 | Solid | Exchangeable | |
| 240-136127-2 | WGWC-19 89-90 | Step 1 | Solid | Exchangeable | |
| MB 140-43060/14-B ^4 | Method Blank | Step 1 | Solid | Exchangeable | |
| LCS 140-43060/15-B ^5 | Lab Control Sample | Step 1 | Solid | Exchangeable | |
| LCSD 140-43060/16-B ^5 | Lab Control Sample Dup | Step 1 | Solid | Exchangeable | |

Prep Batch: 43133

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|--------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 1 | Solid | 3010A | 43060 |
| 240-136127-2 | WGWC-19 89-90 | Step 1 | Solid | 3010A | 43060 |
| MB 140-43060/14-B ^4 | Method Blank | Step 1 | Solid | 3010A | 43060 |
| LCS 140-43060/15-B ^5 | Lab Control Sample | Step 1 | Solid | 3010A | 43060 |
| LCSD 140-43060/16-B ^5 | Lab Control Sample Dup | Step 1 | Solid | 3010A | 43060 |

SEP Batch: 43447

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|-----------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 2 | Solid | Carbonate | |
| 240-136127-2 | WGWC-19 89-90 | Step 2 | Solid | Carbonate | |
| MB 140-43447/14-B ^3 | Method Blank | Step 2 | Solid | Carbonate | |
| LCS 140-43447/15-B ^5 | Lab Control Sample | Step 2 | Solid | Carbonate | |
| LCSD 140-43447/16-B ^5 | Lab Control Sample Dup | Step 2 | Solid | Carbonate | |

Prep Batch: 43460

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|--------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 2 | Solid | 3010A | 43447 |
| 240-136127-2 | WGWC-19 89-90 | Step 2 | Solid | 3010A | 43447 |
| MB 140-43447/14-B ^3 | Method Blank | Step 2 | Solid | 3010A | 43447 |
| LCS 140-43447/15-B ^5 | Lab Control Sample | Step 2 | Solid | 3010A | 43447 |
| LCSD 140-43447/16-B ^5 | Lab Control Sample Dup | Step 2 | Solid | 3010A | 43447 |

SEP Batch: 43465

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 3 | Solid | Non-Crystalline | |
| 240-136127-2 | WGWC-19 89-90 | Step 3 | Solid | Non-Crystalline | |
| MB 140-43465/14-B | Method Blank | Step 3 | Solid | Non-Crystalline | |
| LCS 140-43465/15-B | Lab Control Sample | Step 3 | Solid | Non-Crystalline | |
| LCSD 140-43465/16-B | Lab Control Sample Dup | Step 3 | Solid | Non-Crystalline | |

Prep Batch: 43495

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|--------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 3 | Solid | 3010A | 43465 |
| 240-136127-2 | WGWC-19 89-90 | Step 3 | Solid | 3010A | 43465 |
| MB 140-43465/14-B | Method Blank | Step 3 | Solid | 3010A | 43465 |

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Metals (Continued)

Prep Batch: 43495 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| LCS 140-43465/15-B | Lab Control Sample | Step 3 | Solid | 3010A | 43465 |
| LCSD 140-43465/16-B | Lab Control Sample Dup | Step 3 | Solid | 3010A | 43465 |

SEP Batch: 43496

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 4 | Solid | Metal Hydroxide | |
| 240-136127-2 | WGWC-19 89-90 | Step 4 | Solid | Metal Hydroxide | |
| MB 140-43496/14-B | Method Blank | Step 4 | Solid | Metal Hydroxide | |
| LCS 140-43496/15-B | Lab Control Sample | Step 4 | Solid | Metal Hydroxide | |
| LCSD 140-43496/16-B | Lab Control Sample Dup | Step 4 | Solid | Metal Hydroxide | |

Prep Batch: 43539

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 4 | Solid | 3010A | 43496 |
| 240-136127-2 | WGWC-19 89-90 | Step 4 | Solid | 3010A | 43496 |
| MB 140-43496/14-B | Method Blank | Step 4 | Solid | 3010A | 43496 |
| LCS 140-43496/15-B | Lab Control Sample | Step 4 | Solid | 3010A | 43496 |
| LCSD 140-43496/16-B | Lab Control Sample Dup | Step 4 | Solid | 3010A | 43496 |

SEP Batch: 43540

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|---------------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 5 | Solid | Organic-Bound | |
| 240-136127-2 | WGWC-19 89-90 | Step 5 | Solid | Organic-Bound | |
| MB 140-43540/14-B ^5 | Method Blank | Step 5 | Solid | Organic-Bound | |
| LCS 140-43540/15-B ^5 | Lab Control Sample | Step 5 | Solid | Organic-Bound | |
| LCSD 140-43540/16-B ^5 | Lab Control Sample Dup | Step 5 | Solid | Organic-Bound | |

Prep Batch: 43604

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|--------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 5 | Solid | 3010A | 43540 |
| 240-136127-2 | WGWC-19 89-90 | Step 5 | Solid | 3010A | 43540 |
| MB 140-43540/14-B ^5 | Method Blank | Step 5 | Solid | 3010A | 43540 |
| LCS 140-43540/15-B ^5 | Lab Control Sample | Step 5 | Solid | 3010A | 43540 |
| LCSD 140-43540/16-B ^5 | Lab Control Sample Dup | Step 5 | Solid | 3010A | 43540 |

SEP Batch: 43605

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 6 | Solid | Acid/Sulfide | |
| 240-136127-2 | WGWC-19 89-90 | Step 6 | Solid | Acid/Sulfide | |
| MB 140-43605/14-A | Method Blank | Step 6 | Solid | Acid/Sulfide | |
| LCS 140-43605/15-A | Lab Control Sample | Step 6 | Solid | Acid/Sulfide | |
| LCSD 140-43605/16-A | Lab Control Sample Dup | Step 6 | Solid | Acid/Sulfide | |

Prep Batch: 43637

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 7 | Solid | Residual | |
| 240-136127-2 | WGWC-19 89-90 | Step 7 | Solid | Residual | |
| MB 140-43637/14-A | Method Blank | Step 7 | Solid | Residual | |
| LCS 140-43637/15-A | Lab Control Sample | Step 7 | Solid | Residual | |
| LCSD 140-43637/16-A | Lab Control Sample Dup | Step 7 | Solid | Residual | |

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Metals

Analysis Batch: 43944

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|-----------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 1 | Solid | 6010B SEP | 43133 |
| 240-136127-1 | WGWC-19 87-88 | Step 2 | Solid | 6010B SEP | 43460 |
| 240-136127-1 | WGWC-19 87-88 | Step 3 | Solid | 6010B SEP | 43495 |
| 240-136127-2 | WGWC-19 89-90 | Step 1 | Solid | 6010B SEP | 43133 |
| 240-136127-2 | WGWC-19 89-90 | Step 2 | Solid | 6010B SEP | 43460 |
| 240-136127-2 | WGWC-19 89-90 | Step 3 | Solid | 6010B SEP | 43495 |
| MB 140-43060/14-B ^4 | Method Blank | Step 1 | Solid | 6010B SEP | 43133 |
| MB 140-43447/14-B ^3 | Method Blank | Step 2 | Solid | 6010B SEP | 43460 |
| MB 140-43465/14-B | Method Blank | Step 3 | Solid | 6010B SEP | 43495 |
| LCS 140-43060/15-B ^5 | Lab Control Sample | Step 1 | Solid | 6010B SEP | 43133 |
| LCS 140-43447/15-B ^5 | Lab Control Sample | Step 2 | Solid | 6010B SEP | 43460 |
| LCS 140-43465/15-B | Lab Control Sample | Step 3 | Solid | 6010B SEP | 43495 |
| LCSD 140-43060/16-B ^5 | Lab Control Sample Dup | Step 1 | Solid | 6010B SEP | 43133 |
| LCSD 140-43447/16-B ^5 | Lab Control Sample Dup | Step 2 | Solid | 6010B SEP | 43460 |
| LCSD 140-43465/16-B | Lab Control Sample Dup | Step 3 | Solid | 6010B SEP | 43495 |

Analysis Batch: 43997

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------------|------------------------|-----------|--------|-----------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 4 | Solid | 6010B SEP | 43539 |
| 240-136127-1 | WGWC-19 87-88 | Step 5 | Solid | 6010B SEP | 43604 |
| 240-136127-1 | WGWC-19 87-88 | Step 6 | Solid | 6010B SEP | 43605 |
| 240-136127-2 | WGWC-19 89-90 | Step 4 | Solid | 6010B SEP | 43539 |
| 240-136127-2 | WGWC-19 89-90 | Step 5 | Solid | 6010B SEP | 43604 |
| 240-136127-2 | WGWC-19 89-90 | Step 6 | Solid | 6010B SEP | 43605 |
| MB 140-43496/14-B | Method Blank | Step 4 | Solid | 6010B SEP | 43539 |
| MB 140-43540/14-B ^5 | Method Blank | Step 5 | Solid | 6010B SEP | 43604 |
| MB 140-43605/14-A | Method Blank | Step 6 | Solid | 6010B SEP | 43605 |
| LCS 140-43496/15-B | Lab Control Sample | Step 4 | Solid | 6010B SEP | 43539 |
| LCS 140-43540/15-B ^5 | Lab Control Sample | Step 5 | Solid | 6010B SEP | 43604 |
| LCS 140-43605/15-A | Lab Control Sample | Step 6 | Solid | 6010B SEP | 43605 |
| LCSD 140-43496/16-B | Lab Control Sample Dup | Step 4 | Solid | 6010B SEP | 43539 |
| LCSD 140-43540/16-B ^5 | Lab Control Sample Dup | Step 5 | Solid | 6010B SEP | 43604 |
| LCSD 140-43605/16-A | Lab Control Sample Dup | Step 6 | Solid | 6010B SEP | 43605 |

Analysis Batch: 44042

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 240-136127-1 | WGWC-19 87-88 | Step 7 | Solid | 6010B SEP | 43637 |
| 240-136127-1 | WGWC-19 87-88 | Total/NA | Solid | 6010B | 43059 |
| 240-136127-2 | WGWC-19 89-90 | Step 7 | Solid | 6010B SEP | 43637 |
| 240-136127-2 | WGWC-19 89-90 | Total/NA | Solid | 6010B | 43059 |
| MB 140-43059/14-A | Method Blank | Total/NA | Solid | 6010B | 43059 |
| MB 140-43637/14-A | Method Blank | Step 7 | Solid | 6010B SEP | 43637 |
| LCS 140-43059/15-A | Lab Control Sample | Total/NA | Solid | 6010B | 43059 |
| LCS 140-43637/15-A | Lab Control Sample | Step 7 | Solid | 6010B SEP | 43637 |
| LCSD 140-43059/16-A | Lab Control Sample Dup | Total/NA | Solid | 6010B | 43059 |
| LCSD 140-43637/16-A | Lab Control Sample Dup | Step 7 | Solid | 6010B SEP | 43637 |

Analysis Batch: 44106

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|------------------|--------|-----------|------------|
| 240-136127-1 | WGWC-19 87-88 | Sum of Steps 1-7 | Solid | 6010B SEP | |
| 240-136127-2 | WGWC-19 89-90 | Sum of Steps 1-7 | Solid | 6010B SEP | |

Eurofins TestAmerica, Canton

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Client Sample ID: WGWC-19 87-88

Lab Sample ID: 240-136127-1

Date Collected: 09/03/20 13:00

Matrix: Solid

Date Received: 09/04/20 11:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Sum of Steps 1-7 | Analysis | 6010B SEP | | 1 | 44106 | 11/02/20 10:26 | DKW | TAL KNX |

Client Sample ID: WGWC-19 87-88

Lab Sample ID: 240-136127-1

Date Collected: 09/03/20 13:00

Matrix: Solid

Date Received: 09/04/20 11:00

Percent Solids: 97.1

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | Total | | | 43059 | 09/28/20 08:00 | KNC | TAL KNX |
| Total/NA | Analysis | 6010B | | 1 | 44042 | 10/29/20 14:47 | KNC | TAL KNX |
| Step 1 | SEP | Exchangeable | | | 43060 | 09/28/20 08:00 | KNC | TAL KNX |
| Step 1 | Prep | 3010A | | | 43133 | 09/29/20 08:00 | KNC | TAL KNX |
| Step 1 | Analysis | 6010B SEP | | 4 | 43944 | 10/27/20 13:00 | KNC | TAL KNX |
| Step 2 | SEP | Carbonate | | | 43447 | 10/12/20 10:01 | KNC | TAL KNX |
| Step 2 | Prep | 3010A | | | 43460 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 2 | Analysis | 6010B SEP | | 3 | 43944 | 10/27/20 14:41 | KNC | TAL KNX |
| Step 3 | SEP | Non-Crystalline | | | 43465 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 3 | Prep | 3010A | | | 43495 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 3 | Analysis | 6010B SEP | | 1 | 43944 | 10/27/20 16:13 | KNC | TAL KNX |
| Step 4 | SEP | Metal Hydroxide | | | 43496 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 4 | Prep | 3010A | | | 43539 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 4 | Analysis | 6010B SEP | | 1 | 43997 | 10/28/20 12:52 | KNC | TAL KNX |
| Step 5 | SEP | Organic-Bound | | | 43540 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 5 | Prep | 3010A | | | 43604 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 5 | Analysis | 6010B SEP | | 5 | 43997 | 10/28/20 14:35 | KNC | TAL KNX |
| Step 6 | SEP | Acid/Sulfide | | | 43605 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 6 | Analysis | 6010B SEP | | 1 | 43997 | 10/28/20 16:07 | KNC | TAL KNX |
| Step 7 | Prep | Residual | | | 43637 | 10/20/20 08:00 | KNC | TAL KNX |
| Step 7 | Analysis | 6010B SEP | | 1 | 44042 | 10/29/20 12:57 | KNC | TAL KNX |

Client Sample ID: WGWC-19 89-90

Lab Sample ID: 240-136127-2

Date Collected: 09/03/20 13:05

Matrix: Solid

Date Received: 09/04/20 11:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|------------------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Sum of Steps 1-7 | Analysis | 6010B SEP | | 1 | 44106 | 11/02/20 10:26 | DKW | TAL KNX |

Client Sample ID: WGWC-19 89-90

Lab Sample ID: 240-136127-2

Date Collected: 09/03/20 13:05

Matrix: Solid

Date Received: 09/04/20 11:00

Percent Solids: 96.3

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | Total | | | 43059 | 09/28/20 08:00 | KNC | TAL KNX |
| Total/NA | Analysis | 6010B | | 1 | 44042 | 10/29/20 14:53 | KNC | TAL KNX |
| Step 1 | SEP | Exchangeable | | | 43060 | 09/28/20 08:00 | KNC | TAL KNX |
| Step 1 | Prep | 3010A | | | 43133 | 09/29/20 08:00 | KNC | TAL KNX |
| Step 1 | Analysis | 6010B SEP | | 4 | 43944 | 10/27/20 13:04 | KNC | TAL KNX |

Eurofins TestAmerica, Canton

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Client Sample ID: WGWC-19 89-90

Lab Sample ID: 240-136127-2

Date Collected: 09/03/20 13:05

Matrix: Solid

Date Received: 09/04/20 11:00

Percent Solids: 96.3

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Step 2 | SEP | Carbonate | | | 43447 | 10/12/20 10:01 | KNC | TAL KNX |
| Step 2 | Prep | 3010A | | | 43460 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 2 | Analysis | 6010B SEP | | 3 | 43944 | 10/27/20 14:46 | KNC | TAL KNX |
| Step 3 | SEP | Non-Crystalline | | | 43465 | 10/13/20 08:00 | KNC | TAL KNX |
| Step 3 | Prep | 3010A | | | 43495 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 3 | Analysis | 6010B SEP | | 1 | 43944 | 10/27/20 16:27 | KNC | TAL KNX |
| Step 4 | SEP | Metal Hydroxide | | | 43496 | 10/14/20 08:00 | KNC | TAL KNX |
| Step 4 | Prep | 3010A | | | 43539 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 4 | Analysis | 6010B SEP | | 1 | 43997 | 10/28/20 12:57 | KNC | TAL KNX |
| Step 5 | SEP | Organic-Bound | | | 43540 | 10/15/20 08:00 | KNC | TAL KNX |
| Step 5 | Prep | 3010A | | | 43604 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 5 | Analysis | 6010B SEP | | 5 | 43997 | 10/28/20 14:40 | KNC | TAL KNX |
| Step 6 | SEP | Acid/Sulfide | | | 43605 | 10/19/20 08:00 | KNC | TAL KNX |
| Step 6 | Analysis | 6010B SEP | | 1 | 43997 | 10/28/20 16:26 | KNC | TAL KNX |
| Step 7 | Prep | Residual | | | 43637 | 10/20/20 08:00 | KNC | TAL KNX |
| Step 7 | Analysis | 6010B SEP | | 1 | 44042 | 10/29/20 13:02 | KNC | TAL KNX |

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000



Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Laboratory: Eurofins TestAmerica, Knoxville

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

| Authority | Program | Identification Number | Expiration Date |
|------------------------|-----------------------|-----------------------|-----------------|
| | AFCEE | N/A | |
| ANAB | Dept. of Defense ELAP | L2311 | 02-13-22 |
| ANAB | Dept. of Energy | L2311.01 | 02-13-22 |
| ANAB | ISO/IEC 17025 | L2311 | 02-13-22 |
| ANAB | ISO/IEC 17025 | L2311 | 02-14-22 |
| Arkansas DEQ | State | 88-0688 | 06-17-21 |
| California | State | 2423 | 06-30-21 |
| Colorado | State | TN00009 | 02-28-21 |
| Connecticut | State | PH-0223 | 09-30-21 |
| Florida | NELAP | E87177 | 07-01-21 |
| Georgia (DW) | State | 906 | 12-11-22 |
| Hawaii | State | NA | 12-11-21 |
| Kansas | NELAP | E-10349 | 11-01-20 * |
| Kentucky (DW) | State | 90101 | 01-01-21 |
| Louisiana | NELAP | LA110001 | 12-31-12 * |
| Louisiana | NELAP | 83979 | 06-30-21 |
| Louisiana (DW) | State | LA019 | 12-31-20 |
| Maryland | State | 277 | 03-31-21 |
| Michigan | State | 9933 | 12-11-22 |
| Nevada | State | TN00009 | 07-31-21 |
| New Hampshire | NELAP | 299919 | 01-17-21 |
| New Jersey | NELAP | TN001 | 07-01-21 |
| New York | NELAP | 10781 | 03-31-21 |
| North Carolina (DW) | State | 21705 | 07-31-21 |
| North Carolina (WW/SW) | State | 64 | 12-31-20 |
| Ohio VAP | State | CL0059 | 06-02-23 |
| Oklahoma | State | 9415 | 08-31-21 |
| Oregon | NELAP | TNI0189 | 01-02-21 |
| Pennsylvania | NELAP | 68-00576 | 12-31-20 |
| Tennessee | State | 02014 | 12-11-22 |
| Texas | NELAP | T104704380-18-12 | 08-31-21 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-21 |
| USDA | US Federal Programs | P330-19-00236 | 08-20-22 |
| Utah | NELAP | TN00009 | 07-31-21 |
| Virginia | NELAP | 460176 | 09-14-21 |
| Washington | State | C593 | 01-19-21 |
| West Virginia (DW) | State | 9955C | 01-01-21 |
| West Virginia DEP | State | 345 | 05-01-21 |
| Wisconsin | State | 998044300 | 08-31-21 |

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

Chain of Custody Record

2.0/3.5



| | | | | | | | | | |
|------------------------------|--|--|--|---|--|-----------------------------------|--|--|--|
| Client Information | | Sampler: Will Burke | | Lab PM: Brown, Shall | | Carrier Tracking No(s): | | COC No: | |
| Client Contact: Adria Reimer | | Phone: 205-657-5949 | | E-Mail: shall.brown@teslamericainc.com | | Page: 1 of 1 | | Job #: | |
| Company: Geosyntec | | Address: 1255 Roberts Blvd NW, Suite 200 | | Due Date Requested: | | Analysis Requested | | Preservation Codes: | |
| City: Kennesaw | | State, Zip: GA 30144 | | TAT Requested (days): -3 day RUSH | | Field Filtered Sample (Yes or No) | | A - HCL | |
| Phone: 678-202-9564 | | PO #: [Redacted] | | Sample Date | | Perform MS/MSD (Yes or No) | | M - Hexane | |
| Email: areimer@geosyntec.com | | WO #: | | Sample Time | | Particle Size Reduction | | N - None | |
| Project Name: GW7327 | | Project #: 18019922 | | Sample Type (C=Comp, G=grab) | | Sequential Extraction - Lithium | | O - AsNaO2 | |
| Site: Plant Wansley | | SSOW#: | | Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air) | | 6020 Lithium | | P - Na2O4S | |
| Sample Identification | | Sample Date | | Sample Time | | Field Filtered Sample (Yes or No) | | Q - Na2SO3 | |
| WGW-19 87-88 | | 9-3-20 | | 17:00 | | X | | R - Na2S2O3 | |
| WGW-19 89-90 | | - | | 13:05 | | X | | S - H2SO4 | |
| | | | | | | | | T - TSP Dodecahydrate | |
| | | | | | | | | U - Acetone | |
| | | | | | | | | V - MCAA | |
| | | | | | | | | W - pH 4-5 | |
| | | | | | | | | L - EDA | |
| | | | | | | | | Z - other (specify) | |
| | | | | | | | | Other: | |
| | | | | | | | | Special Instructions/Note: | |
| | | | | | | | | For samples requiring particle size reduction - ensure homogeneous sample is analyzed | |
| | | | | | | | | Total Number of Containers | |
| | | | | | | | | X | |
| | | | | | | | | Barcode: 240-136127 Chain of Custody | |
| | | | | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | |
| | | | | | | | | Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For 2 Months | |
| | | | | | | | | Special Instructions/QC Requirements: see special note above | |
| | | | | | | | | Method of Shipment: | |
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Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login # : 136127

Canton Facility

Client Geo Sytec Site Name _____

Cooler unpacked by:
Math Simpson

Cooler Received on 9-4-20 Opened on 9-4-20

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time

Storage Location

TestAmerica Cooler # 77A Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-11 (CF +0.9 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 3.5 °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC911298
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ← Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:

 VOAs
 Oil and Grease
 TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: _____

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

| Review Items | Yes | No | NA | If No, what was the problem? | Comments/Actions Taken |
|--|-----|----|----|---|--|
| 1. Are the shipping containers intact? | / | | | <input type="checkbox"/> Containers, Broken | |
| 2. Were ambient air containers received intact? | / | | | <input type="checkbox"/> Checked in lab | |
| 3. The coolers/containers custody seal if present, is it intact? | / | | | <input type="checkbox"/> Yes <input type="checkbox"/> NA | |
| 4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID: <u>5668</u> Correction factor: <u>0.0</u> | / | | | <input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt | |
| 5. Were all of the sample containers received intact? | / | | | <input type="checkbox"/> Containers, Broken | |
| 6. Were samples received in appropriate containers? | / | | | <input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel | |
| 7. Do sample container labels match COC? (IDs, Dates, Times) | / | | | <input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received | |
| 8. Were all of the samples listed on the COC received? | / | | | <input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received | |
| 9. Is the date/time of sample collection noted? | / | | | <input type="checkbox"/> COC; No Date/Time; Client Contacted | Labeling Verified by: _____ Date: _____ |
| 10. Was the sampler identified on the COC? | / | | | <input type="checkbox"/> Sampler Not Listed on COC | pH test strip lot number: _____ |
| 11. Is the client and project name/# identified? | / | | | <input type="checkbox"/> COC Incorrect/Incomplete | |
| 12. Are tests/parameters listed for each sample? | / | | | <input type="checkbox"/> COC No tests on COC | |
| 13. Is the matrix of the samples noted? | / | | | <input type="checkbox"/> COC Incorrect/Incomplete | |
| 14. Was COC relinquished? (Signed/Dated/Timed) | / | | | <input type="checkbox"/> COC Incorrect/Incomplete | Box 16A: pH Preservation Box 18A: Residual Chlorine |
| 15. Were samples received within holding time? | / | | | <input type="checkbox"/> Holding Time - Receipt | Preservative: _____ |
| 16. Were samples received with correct chemical preservative (excluding Encore)? | / | | | <input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative | Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____ |
| 17. Were VOA samples received without headspace? | / | | | <input type="checkbox"/> Headspace (VOA only) | |
| 18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____ | / | | | <input type="checkbox"/> Residual Chlorine | |
| 19. For 1613B water samples is pH<9? | / | | | <input type="checkbox"/> If no, notify lab to adjust | |
| 20. For rad samples was sample activity info. Provided? | / | | | <input type="checkbox"/> Project missing info | |
| Project #: _____ PM Instructions: _____ | | | | | |

Sample Receiving Associate: Russell Date: 9-10-20 QA026R32.doc, 062719

